



September 2020

**TO ALL OUR VALUED CUSTOMERS AND CAL-ROYAL REPRESENTATIVES:**

We are very pleased to announce the delivery of our **NEW** and **REFORMATTED** catalog and price book.

The **THRESHOLDS** section is now combined with the new section **DOOR WEATHER SEALS**.

We are now transitioning from the regular **7700 SERIES EXIT DEVICES** to **ADA 7700 SERIES EXIT DEVICES** according to Americans with Disability Act (**ADA**) standards with 5 lbs. opening force on Rim, Surface Vertical Rod, and Surface Vertical Less Bottom Rod (LBR) types only. **Available September / October**

Due to the rising cost of materials, new sourcing, freight and labor, Cal-Royal is announcing a **PRICE DECREASE** on some of our Thresholds. **PRICE DECREASE AND PRICE INCREASES** on Builders Hardware products effective **September 1, 2020**.

There will also be a slight price increase on our **ELECTRIFIED** Exit Device Trims.  
Price decrease on **ALL ELECTRIFIED HINGES**.

The **LITES & LOUVERS** prices will be rounded up to the nearest whole number to avoid miscalculations and confusion. We hope that with this revision we'll be able to ease, if not, completely avoid mistakes in computation and thus, make calculations simple and easier for you.

Cal-Royal will continue to honor valid quotations until **October 31<sup>st</sup> 2020**.

To receive a link of electronic versions of our new catalog and price book, please send an email to **[info@cal-royal.com](mailto:info@cal-royal.com)** with your company name, company address, and company email. Place "**NEW-CAT-2020**" as the subject line. You can also request for a USB flash drive ( part # **CRP-USBKEY** ) as needed. Printed catalog and price book will also be available around **early October** as requested only.

Also, please see attached new product summary for quick reference of all new product additions and updates. The new price book supersedes the price book dated **June 27<sup>th</sup>, 2019** and we continue to work diligently to keep our costs in check and pricing very competitive.

We encourage you to sign up in our mailing list to receive regular updates and product announcements. You may send an email to **[info@cal-royal.com](mailto:info@cal-royal.com)** to subscribe to our mailing list.

We thank you for your continued business and support. As new products and product lines are added in our catalog, we will send out announcements via fax and email.

Sincerely,  
Cal-Royal Products, Inc.





# NEW PRODUCTS UPDATE



## DOOR CLOSERS

- **NEW** KN900PBF ALUM Door Closer, Made in Korea (refer to DC1)
- **NEW** RHDSA-SS Cushion Heavy Duty Stop Spring Arm with Spring Shoe (refer to DC2, DC10, DC13, DC14)
- **NEW** RHDSTP Cushion Heavy Duty Stop Arm (refer to DC2, DC10, DC13, DC14)
- **NEW** KCR441 and KCR441DA ALUM Door Closers, Made in Korea (refer to DC4)
- **NEW** CR271PC ALUM Door Closer, CR441 Series, Heavy Duty Pocket Door Closer Application (refer to DC5)
- **NEW** CONCR441 KIT, longer steel mounting plate that covers the entire CR441 door closers (refer to DC7)
- **NEW** N500PBF Door Closer with slim plastic cover and sex bolts (refer to DC14)
- **NEW** 88 Series, Concealed Overhead Door Closers with Fixed and Adjustable Power Spring (refer to DC20-DC21)
- **NEW** 8600 Series, Automatic "Low Energy" Swing Door Operator (refer to DC23-DC27) Available September / October

## LOCKSETS

- **NEW** NM Series Anti-Friction Latch Bolt, All Stainless Steel without Plastic (refer to page 2 of Locksets Catalog)
- **NEW** SS Sectional Trim & SE Escutcheon Trim US10B for NM8050, NM8080, NM8453, NM8456 functions (refer to L1 & L6)
- **NEW** WE Escutcheon Trim US26D and US19 for NM8080, NM8453, NM8010 functions (refer to L10) Available September / October
- **NEW** NM300 Series Electrified Mortise Locks (refer to L18)
- **NEW** WE Escutcheon Trim US26D for SC8080, SC8453, SC8010 functions (refer to L22) Available September / October
- **NEW** WS Sectional Trim, and WE Escutcheon Trim for SC Series Mortise Locks in US19 (refer to L20 & L22)
- **NEW** SC400 Series Electrified Mortise Locks (refer to L25)
- **NEW** Genesys Series US32D Stainless Steel Material (refer to L32) Available August
- **NEW** Genesys Series GN, AT, SPA lever designs US1 (refer to L32-L33) Available September / October
- **NEW** Genesys Series AUG, DAN, LON, TAC lever designs available in SFIC and LFIC (refer to L35) Available October / November
- **NEW** Genesys Series GN, AT, SPA lever designs available in Schlage, Sargent, Corbin/Russwin, and Yale LFIC (refer to L36-L37)
- **NEW** LRC Series, Heavy Duty Cylindrical Lockset with Ligature Resistant Lever (refer to L42)
- **NEW** Tuscany Series 2-AUG, 2-DAN, 2-LON, 2-TAC lever designs (refer to L56) Available October / November
- **NEW** Commander Series 2-AT, 2-SPA, 2-AUG, 2-DAN, 2-LON, 2-TAC designs LFIC (refer to L58) Available October / November
- **NEW** CRCODE204 Universal Trim for 6600, 7700, 9800, and 2200 Series Exit Devices (refer to L67)
- **NEW** XP-T360-05, Explorer Series, XP inside lever with T360 Outside Deadbolt, Storeroom function (refer to L52)
- **NEW** Challenger Series now available in Square Rose option (refer to L62-L63)
- **NEW** Challenger Series ROC-SQ US1 (refer to L62)
- **NEW** TBA Series, Made in Taiwan Barrington Knob functions US19 (refer to L68)
- **NEW** BA-SG05, Barrington Series, SG inside Lever with BA keyed outside knob, Storeroom function (refer to L69)
- **NEW** JHIL05 US26D and US15, JHIL Series Interconnected Leverset, Double Locking Storeroom Lever (refer to L72)
- **NEW** JHIL05 US26D and US15, JHIL Series Interconnected Leverset, Double Locking Storeroom Lever (refer to L73)
- **NEW** JHIL00 and JHIL30 US26, JHIL Series Interconnected Leverset (refer to L73)
- **NEW** JHIL30 and JHILROC30 US1, JHIL Series Interconnected Leverset, Single Locking Passage Lever (refer to L73)
- **NEW** IND-JHIL05 and IND-JHIL30 US26D, JHIL Series Interconnected with Indicator Deadbolt (refer to L73) Available September / October
- **NEW** CIL Series, Contemporary Interconnected Leverset (refer to L74)
- **NEW** SCICULT360 US26D and US10B, T300 Series, Heavy Duty Single Cylinder Deadbolt with Schlage LFIC (refer to L80)
- **NEW** ULT360 US1, T300 Series, Heavy Duty Single Cylinder Deadbolt (refer to L80)
- **NEW** ULT360, ICULT360, and ULT362 US32D, T300 Series, Heavy Duty Deadbolts (refer to L80) Available September / October
- **NEW** SQ300 Series, Contemporary Square Heavy Duty Deadbolts (refer to L82)
- **NEW** SMTT-160, Optional Small Thumbturn for CB160 Series Deadbolts (refer to L87)
- **NEW** IND90-G2 Series, Commercial Indicator Deadbolts (refer to L88)
- **NEW** INDLEV-20 Series, Commercial Grade Privacy Indicator Leverset (refer to L95)
- **NEW** KOBE lever design, Chelsie Series Leverset (refer to L99) Available August
- **NEW** LENOX lever design US1, Chelsie Series Leverset (refer to L99) Available September / October
- **NEW** ALLURE lever design US1, Heritage Series Leverset (refer to L102) Available September / October
- **NEW** DELAWARE lever design US15 & US1, Heritage Series Leverset (refer to L102) Available September / October
- **NEW** MEMPHIS lever design US15 & US1, Heritage Series Leverset (refer to L102) Available August
- **NEW** HOLLAND lever design US1, Contemporary Series Leverset (refer to L104)
- **NEW** Grand Series, Grade 2 Tubular Leversets available with factory lead time (refer to L65) Available September / October
- **NEW** Select Grade 3 Locksets / Deadbolts in US1 finish available with factory lead time (refer to L99, L101, L102, L104-L105, L108-L109, L110, L113-L114, L116-L117)
- **NEW PRICES** T400 Series, Commercial / Residential Heavy Duty Deadbolts (refer to L84)



# NEW PRODUCTS UPDATE



## **CYLINDERS, KEYS & KEYING**

- **NEW** ICPTT, Temporary Plastic Core Thumbturn (refer to L121)
- **NEW** SHTOOL, SFIC Housing Poll Shear Tool (refer to L127)

## **HINGES**

### **• NEW FINISHES**

- BB5200 - 4 1/2" x 4 1/2" Heavy Weight 4-Ball Bearing Full Mortise US1NRP (refer to H1)
- BB55 - 5" x 5" Standard Weight 2-Ball Bearing Full Mortise US1 (refer to H1)
- ELE4BB31 - 4 1/2" x 4 1/2" Electrified 4 Wires, 26 Gauge, Standard Weight 2-Ball Bearing Full Mortise US1 (refer to H6)
- BBRH40 - 4" x 4", 5/8" RC, Residential Weight 2-Ball Bearing Full Mortise US1D (refer to H9)
- RH40 - 4" x 4", 5/8" RC, Residential Weight Plain Bearing Full Mortise US1NRP (refer to H9)
- RH60 - 4" x 4", 1/4" RC, Residential Weight Plain Bearing Full Mortise US1NRP (refer to H10)
- 10RH35 - 3 1/2" x 3 1/2", 5/8" RC, Residential Weight Plain Bearing Full Mortise US4, US26D, US1 (refer to H10)

### **• NEW ITEMS**

- ELE4BB5500 - 5" x 5" Electrified 4 Wires, 26 Gauge, Heavy Weight 4-Ball Bearing Full Mortise US10B (refer to H6)
- RH60-349 - 4" x 4", 1/4" RC, Residential Weight Plain Bearing Full Mortise packed with 3/4" screws US15, US26, US10B (refer to H10)
- SQH-45 - 4 1/2" x 4 1/2" Heavy Weight Plain Bearing Full Mortise Square Barrel US10B, US15, US26, US26D (refer to H11)
- SQH-44 - 4" x 4" Heavy Weight Plain Bearing Full Mortise Square Barrel US10B, US15, US26, US26D (refer to H11)
- SQH-35 - 3 1/2" x 3 1/2" Heavy Weight Plain Bearing Full Mortise Square Barrel US10B, US15, US26, US26D (refer to H11)

### **3D INVISIBLE HINGES**

- CR3D62 - UL Listed, 3D Adjustable Concealed Hinge US1, US4, US10B, US14, US15, US26, US26D, US28 (refer to H15)
- CR3D51 - 3D Adjustable Concealed Hinge US1, US4, US10B, US14, US15, US26, US26D, US28 (refer to H15)
- 3D Hinge Accessories (refer to H15)

### **OFFSET AND INTERMEDIATE PIVOT HINGES**

- PV001 - 3/4" Heavy Duty Offset Top and Bottom Pivot Hinge US10B, US32D (refer to H16)
- PV010-LH - 3/4" Intermediate Pivot Hinge, Left Hand US10B, US32D (refer to H16)
- PV010-RH - 3/4" Intermediate Pivot Hinge, Right Hand US10B, US32D (refer to H16)
- ELEPV010-LH - 4 Wires, 26 Gauge, Electrified Intermediate Offset Pivot Hinge, Left Hand US10B, US32D (refer to H16)
- ELEPV010-RH - 4 Wires, 26 Gauge, Electrified Intermediate Offset Pivot Hinge, Right Hand US10B, US32D (refer to H16)

### **• NEW PRICES**

- BBRH40 - 4" x 4", 5/8" RC, Residential Weight 2-Ball Bearing Full Mortise US26DNRP (refer to H9)
  - RH40 - 4" x 4", 5/8" RC, Residential Weight Plain Bearing Full Mortise US3NRP, US26DNRP, US15NRP, US32DNRP (refer to H9)
  - RH60 - 4" x 4", 1/4" RC, Residential Weight Plain Bearing Full Mortise US3NRP, US26DNRP, US26NRP, US32DNRP (refer to H10)
- **NEW LOWER PRICE** on All Electrified Hinges (refer to H6)

## **EXIT DEVICES**

- **NEW** Transitioning into ADA 7700 Series, Rim & Surface Vertical Rod Type (non-fire and fire rated) Exit Devices (refer to E1-E2)
- **NEW** ADA 7700 Series Rim & Surface Vertical Rod Type (non-fire and fire rated) Exit Devices L1 Black finish (refer to E1)  
*Available September / October*
- **NEW** ESC7700 Escutcheon Exit Device Trims, all functions and lever designs US1 (refer to E4) *Available September / October*
- **NEW** "LON" and "TAC" lever designs: ESC7700 & NESC9800 Escutcheon Exit Device Trims (refer to E4, E18) *Available December*
- **NEW** "RL" lever design: HDRLESC (Heavy Duty Escutcheon) Exit Device Trims US32D (refer to E7, E19)
- **NEW** FGSL7700EO36 & FGSL7700EO48, Narrow Stile Rim Type Fire Rated Exit Devices (refer to E11)
- **NEW** ADA 9800 Series, Rim & Surface Vertical Rod Type (non-fire and fire rated) Exit Devices in L1 Black finish (refer to E15)  
*Available September / October*
- **NEW** NESC9800 Escutcheon Exit Device Trims, all functions and lever designs US1 (refer to E18) *Available September / October*
- **NEW** FGSL9800EO36 & FGSL9800EO48, Narrow Stile Rim Type Fire Rated Exit Devices (refer to E26)
- **NEW** 6600 Series, Rim & Surface Vertical Rod Type (non-fire and fire rated) Grade 1 Exit Devices (refer to E30-E31)
- **NEW** ESC6600 & ESC3300 Escutcheon Trims for 6600 Series Exit Devices (refer to E32)
- **NEW** ADA 2200 Series, Rim & Surface Vertical Rod Type (non-fire and fire rated) Exit Devices in L1 Black finish (refer to E37)  
*Available September / October*
- **NEW** "AT" and "SPA" Lever Design Exit Trims in US26D finish, now available in SFIC and LFIC (refer to E3, E17, E33, E39, E51)
- **NEW** "TUB" Lever Design Exit Trim in US26D finish, now available in SFIC (refer to E3, E17, E33, E39, E51)
- **NEW** GN Design Only: ENT00L, ICENT00L, STR05L, ICSTR05L, PAS30L, DUM40L in US32D finish, All Stainless Steel Exterior (refer to E3, E17, E33, E39, E51) *Available August*





# NEW PRODUCTS UPDATE



## EXIT DEVICES

- **NEW** AUG, DAN, LON, TAC Cylindrical Exit Device trims (refer to E3, E17, E33, E39, E51) Available October / November
- **NEW** DEKIT36 (for 36") and DEKIT (for 48"), Delayed Egress Option on 7700 Series Exit Devices (refer to E43)
- **NEW** DECAL-162, Optional DECAL sticker applied on push rail of 7700 Series Exit Devices (refer to E43)
- **NEW** CRPS440B & CRPS480B Power Supplies rated at 4A @ 24V DC (refer to E46)
- **NEW** LCKUL424-TF, Top Fitting Kit to convert UL424 to LCKUL424 (refer to E52)
- **NEW** WALLKIT, Wall Mounted Mullion Storage Kit for UL424 and LCKUL424 (refer to E52)

## THRESHOLDS AND DOOR WEATHER SEALS (NEW SECTION)

- **THRESHOLDS combined with DOOR WEATHER SEALS**
- **NEW LOWER PRICES**
  - CR2726, ½" (H) x 6" (W) Saddle Thresholds Alum and Duro (refer to DS1)
  - CR2767, ½" (H) x 7" (W) Saddle Thresholds Alum and Duro (refer to DS1)
  - CR3715, ¼" (H) x 5" (W) Saddle Thresholds Alum and Duro (refer to DS2)
  - CR3767, ¼" (H) x 7" (W) Saddle Thresholds Alum and Duro (refer to DS1)
- **NEW ITEMS Available September / October**
  - PST-200, PST-201 Panic Saddle Thresholds (refer to DS4)
  - ADB-701, ADB-702, ADB-703, ADB-704, ADB-705 Automatic Door Bottoms (refer to DS5)
  - C-440, C-880, C-0773 Adhesive Weatherstrips (refer to DS6)
  - BWR-301, BW-302, BW-303, BW-305 Brush Weatherstrips (refer to DS7)
  - BTSR-107, BTSR-108, BTS-103, BTN-112 Door Bottom Sweeps (refer to DS8)
  - DSR-406, DSR-407, DS-403, DS-404, DSR-410 Door Shoes (refer to DS9)
  - PG-601, PG-602, PG-603, PG-604 Perimeter Gasketing (refer to DS10)

## LITES & LOUVERS

- Now available in **CUSTOM COLORS**, with factory lead time and standard discount only. (refer to color chart on the Lites & Louvers Catalog page 1)
- **NEW SIZES**
  - SVL672, SVL2472, SVL2474 (refer to LL2)
  - VL672, VL2472, VL2474 (refer to LL3)
- **NEW STOCK SIZES IN GREY (-PR, PRIME COAT) FINISH**
  - SVL535-PR, SVL627-PR, SVL722-PR, SVL832-PR, SVL1212-PR, SVL2424-PR, SVL2430-PR, SVL2432-PR, SVL2460-PR, SVL2464-PR (refer to LL2)
  - VL535-PR, VL627-PR, VL722-PR, VL832-PR, VL1212-PR, VL1818-PR, VL2424-PR, VL2430-PR, VL2432-PR, VL2460-PR, VL2464-PR (refer to LL3)
- **NEW Glass, TEMP20 (STOCK SIZES)**
  - TEMP20-1111, TEMP20-2329, TEMP20-434, TEMP20-526, TEMP20-621 (refer to LL12)
- **NEW** Glass TEMP20 Custom Sizes (refer to LL14)
- **NEW** SVL & VL Vision Lite Kits, with Glass TEMP20 Custom Sizes (refer to LL9)

## BUILDERS HARDWARE

- **BACK IN STOCK** EP23, Flush Mount Edge Pull US5 (refer to DH12)
- **NEW** MDN5, 5" Modern Numbers (0-9) US1, US15 (refer to DH1)
- **NEW** ASAST, Template ASA Strike (4 7/8" x 3 3/8" x 1 1/4") US1 (refer to DH2)
- **NEW** LG28, Latch Guard Protector (3 1/2" x 11 3/4") US26D, ALUM, DURO, GOLD (refer to DH3)
- **NEW** BKICK434, BKICK822, BKICK826, BKICK828, BKICK830, BKICK832, BKICK1022, BKICK1026, BKICK1028, BKICK1030, BKICK1032, BKICK1040, BKICK1042, Stainless Steel Kick Plates US32D (refer to DH4)
- **NEW** UL Listed Label Option on Kick Plates not exceeding 16" in height (refer to DH4)
- **NEW** ANO634, ANO834, ANO1034 Aluminum Kick Plates US1 (refer to DH5)
- **NEW** PULPL715, Aluminum Plate with 7" Handle (0.050" x 3 1/2" x 15") US1 (refer to DH5)
- **NEW** PULPL915, Aluminum Plate with 9" Handle (0.050" x 4" x 16") US1 (refer to DH5)
- **NEW** PUL-175, Night Latch Cylinder Pull US10B, US32D (refer to DH8)
- **NEW** HPUL-850, Modern Hospital Double Pull Arm with Microban Anti-Microbial Coating US15 & US1 (refer to DH8)
- Available September / October
- **NEW** HPUSH-3515 & HPUSH-4016, Modern Hospital Double Pull Arm with Push Plate US32D & US1 (refer to DH8)
- Available September / October



# NEW PRODUCTS UPDATE



## **BUILDERS HARDWARE**

- **NEW** HFPUL-22, Hands-Free Wrist Door Pull Alum and US1 (refer to DH8) Available December
- **NEW** HFPUL-41, Hands-Free Foot Door Pull US1 (refer to DH8) Available December
- **NEW** PRIULDV200, UL Listed Privacy Door Viewer US4, US19 (refer to DH9)
- **NEW** BBDHG88, Zinc Diecast Swing Bar Door Guard US1 (refer to DH10)
- **NEW** HPDL258, Zinc Diecast Privacy Door Latch US19 (refer to DH10)
- **NEW** PDL-200, Privacy Door Latch Disengage Tool (refer to DH10)
- **NEW** SBDG00, Solid Brass Door Guard with Angle Protector US1, US15 (refer to DH10)
- **NEW** DDSB4, DDSB8, DDSB12, DDSB18, DDSB24, Solid Brass Decorative Dutch Door Bolts US1 (refer to DH13)
- **NEW** MB85R, 6" Solid Brass Flush Bolt Round End US1 (refer to DH14)
- **NEW** MB86S, 6" Solid Brass Flush Bolt Square End US1 (refer to DH14)
- **NEW** SMB85R, 6" Steel Flush Bolt Round End US1 (refer to DH14)
- **NEW** FBS-100, UL Listed Stainless Steel Flip Style Mortise Flush Bolt US32D, US10B (refer to DH15)
- **NEW** RD-12, RD-18, RD-24, RD-36, RD-48, Extended Rods for FBS-100 (refer to DH15)
- **NEW** Auto Flush Bolts, Combination Flush Bolts, and Universal Flush Bolts US1 (refer to DH16-DH18)
- **NEW** UNICO-17, Universal Door Coordinator BLACK, ALUM (refer to DH19)
- **NEW** HDHB40, Heavy Duty Cast Aluminum Handrail Bracket US1 (refer to DH20)
- **NEW** JUHB28, Jumbo Heavy Duty Handrail Bracket US1, US26D (refer to DH20)
- **NEW** SBRS3, 3" Solid Brass Rigid Door Stop US1 (refer to DH21)
- **NEW** SBRS4, 4" Solid Brass Rigid Door Stop US1 (refer to DH21)
- **NEW** HDFS3, 3 1/8" Heavy Duty Flexible Door Stop US1 (refer to DH22)
- **NEW** JFS13, 3 3/4" Heavy Duty Jumbo Spring Door Stop US1 (refer to DH22)
- **NEW** GS118, GS119, Goose Neck Cast Floor Stops US1 (refer to DH23)
- **NEW** DSHP18 & DLSP4 Solid Brass Dome Stops US1 (refer to DH23)
- **NEW** EUS-03, EUS-05, Stainless Steel Floor Door Stops US1 (refer to DH24)
- **NEW** ZNHS-37, High Profile Casted Zinc Dome Stop US10B, US26D (refer to DH24)
- **NEW** ZNLS-21, Low Profile Casted Zinc Dome Stop US10B, US26D (refer to DH24)
- **NEW** ZNUS-82, Universal Heavy Duty Casted Zinc Dome Stop US10B, US26D (refer to DH24)
- **NEW** DSLD81, Light Duty Door Protector Hinge Pin Stop US1 (refer to DH26)
- **NEW** HP95, Hinge Pin Door Stop US1 (refer to DH26) Available September / October
- **NEW** IVHP23 Jumbo Heavy Duty Hinge Pin Stop US1 (refer to DH26) Available September / October
- **NEW** JHP11, Jumbo Hinge Pin Door Stop US1 (refer to DH26)
- **NEW** ASR-41, Adjustable Shelf and Rod Support US26 (refer to DH27)
- **NEW** FSR123, Heavy Duty Shelf and Rod Support US26 (refer to DH27)
- **NEW** OVS-12, Adjustable Shelf and Oval Rod Support US26 (refer to DH27)
- **NEW** CLR-18, CLR-112, CLR-200, CLR-500, Chrome Plated Closet Rods US26 (refer to DH28)
- **NEW** CLR-30, Chrome Plated Closet Pole Socket for 1 1/16" diameter poles US26 (refer to DH28)
- **NEW** PSHD-10, Heavy Duty Diecast Closet Pole Socket for 1 5/16" diameter poles US26 (refer to DH28)
- **NEW** SBBC58, Solid Brass Adjustable Ball Catch US1 (refer to DH28)
- **NEW** ARCT3350, Adjustable Roller Catch US19, US26 (refer to DH29)
- **NEW** DIB1, Adjustable Drive -In Ball Catch US1 (refer to DH29)
- **NEW** BK14, Bi-Fold Ball Knob US1 (refer to DH30)
- **NEW** PLA2, Back Plate for BK14 US1 (refer to DH30)
- **NEW** CRP150N, Stainless Steel Flush Cup Pull US10B, US32D (refer to DH30)
- **NEW** DIFP218, Drive-In Finger Pull without nails US1 (refer to DH30)
- **NEW** FP2000, FP3000, FP4000, Solid Brass Flush Pulls US1, US3, US10B, US15, US26, US26D (refer to DH30)
- **NEW** CH01, CH04, CH07, CH10, CH13, CH14, CH25, CH30, Stainless Steel Coat Hooks US32D (refer to DH31)
- **NEW** CON772S, CON774S, CON776S, Medium Duty Concealed Overhead Door Stop US32D (refer to DH32) Available August
- **NEW** CON774H, Medium Duty Concealed Overhead Door Holder with Hold-Open US32D (refer to DH32) Available August
- **NEW** CON882S, CON884S, CON886S, Heavy Duty Concealed Overhead Door Stop US32D (refer to DH32) Available August
- **NEW** CON884H, Heavy Duty Concealed Overhead Door Holder with Hold-Open US32D (refer to DH32) Available August
- **NEW** HD662S, HD664S, HD666S, Heavy Duty Surface Overhead Door Stop US32D (refer to DH32) Available August
- **NEW** HD664H, Heavy Duty Surface Overhead Door Holder with Hold-Open US32D (refer to DH32) Available August
- **NEW** AGH-69, AGH-48, AGH-U3, AGR-71, All Gender Restroom Signs BLACK, BLUE (refer to DH33) AGR-71 Available August
- **NEW** SCS801666, SCS801682, SDH Series Top Mount Single Wheel with Soft Close System US10B, BLACK (refer to DH38)



# NEW PRODUCTS UPDATE



## **BUILDERS HARDWARE**

- **NEW** SCS803566, SCS803582, SDH Series Surface Mount Strap Wheel with Soft Close System US10B, BLACK (refer to DH38)
- **NEW** BDH3066, BDH3080, BDH Series Surface Mount Strap Wheel US15 (refer to DH40)
- **NEW** BDH3166, BDH3180, BDH Series Top Mount Single Wheel US15 (refer to DH40)
- **NEW** SCSBDH3066, SCSBDH3080, BDH Series Surface Mount Strap Wheel with Soft Close System US15 (refer to DH40)
- **NEW** SCSBDH3166, SCSBDH3180, BDH Series Top Mount Single Wheel with Soft Close System US15 (refer to DH40)
- **NEW** SDH and BDH Series Sliding Door Hardware Accessories (refer to DH41-DH46)
- **NEW PRICES**
  - PN20BK, PN20US3, 4" Diecast House Numbers and Letters (refer to DH1)
  - ASA478, Template ASA Strike (4 7/8" x 3 3/8" x 1 1/4") US10B, US26, US32D (refer to DH2)
  - DL402361, Door / Window Casement Security Latch Lock US3, US5, US10B, US15, US26, US26D (refer to DH2)
  - SBCF222, SBCF333, Window Casement Fasteners US3, US5, US10B, US15, US15A, US19, US26, US26D (refer to DH2)
  - ASA-FP, ASA Blank Filler Plate (refer to DH3)
  - DPSTRK1, Brass Dust Proof Strike US3, US10B, US26, US26D (refer to DH3)
  - LPG2, Latch Guard Protector (2 7/8" x 11") USP, ALUM, DURO, GOLD (refer to DH3)
  - BARM3434, BARM3436, Stainless Steel Armor Plates US32D (refer to DH5)
  - PSPL3515, Push Plate (0.050" x 3 1/2" x 15") US3, US26 (refer to DH5)
  - PULPL3515, Pull Plate (0.050" x 3 1/2" x 15") US3 (refer to DH5)
  - PULPL4016, Pull Plate (0.050" x 4" x 16") US3, US4, US5, US10, US10B, US26 (refer to DH5)
  - PUL201, PUL202, PUL203, Solid Bar Round Pulls US3 (refer to DH7)
  - ULDK93, UL Listed Door Knocker with 160° Viewer US3, US5, US10B, US15, US26D (refer to DH8)
  - ULDV160, UL Listed 160° Door Viewer US3, US10A, US10B, US15, US19, US26, US26D (refer to DH9)
  - DAP77, Door Angle Protector US3, US4, US5, US10B, US26, US26D (refer to DH10)
  - DG22, Solid Brass Chain Door Guard US3, US5, US26 (refer to DH10)
  - SBDG00, Solid Brass Chain Door Guard with Angle Protector US3, US4, US10B, US26, US26D (refer to DH10)
  - PASPD134, Heavy Duty Passage Sliding Door Lock US3, US5, US10B, US15, US15A, US26, US26D (refer to DH11)
  - PRIPDL21, Heavy Duty Privacy Sliding Door Lock US3, US5, US10B, US15, US15A, US26, US26D (refer to DH11)
  - 14SDLR, Passage Sliding Door Lock with 2 3/8" backset US10B, US15, US26, US26D (refer to DH12)
  - 18SDLR, Privacy Sliding Door Lock with 2 3/8" backset US10B, US15, US26, US26D (refer to DH12)
  - 20SDLR, Privacy Sliding Door Lock with 2 3/4" backset US26D (refer to DH12)
  - 30SDLR, Passage Sliding Door Lock with 2 3/4" backset US26D (refer to DH12)
  - SB873, 3" Brass Surface Bolt US3, US5, US10B, US15, US15A, US26 (refer to DH13)
  - SB874, 4" Brass Surface Bolt US3, US5, US10B, US15, US15A, US26 (refer to DH13)
  - SB876, 6" Brass Surface Bolt US3, US15, US26 (refer to DH13)
  - SB8712, 12" Brass Surface Bolt US3, US5, US10B, US15, US15A, US26 (refer to DH13)
  - EXTFB-1, Flip Style Mortise Flush Bolt US3, US5, US10B, US15, US15A, US26, US26D (refer to DH14)
  - FBG6, Solid Brass Single Route Flush Bolt US3, US5, US15, US15A, US26, US26D (refer to DH14)
  - ZDFB800, Diecast Base Single Route Flush Bolt US3, US5, US10B, US15, US26, US26D (refer to DH14)
  - FBROD-36, 36" Extended Rod for MF6341 (refer to DH15)
  - WF6341, UL Listed Solid Brass Lever Extension Flush Bolt for wood doors US3, US10B, US15, US26, US26D (refer to DH15)
  - ADAHB-4, ADA Heavy Duty Cast Handrail Bracket US3, US5, US10B, US15, US15A, US26, US26D (refer to DH20)
  - HB96, Diecast Handrail Bracket US3, US5, US10B, US15, US15A, US26, US26D (refer to DH20)
  - HDHB40, Heavy Duty Cast Aluminum Handrail Bracket US3, US5, US26 (refer to DH20)
  - CURB19, Solid Brass Curved Roller Stop US3, US4, US10B, US26D (refer to DH21)
  - CWS18, Commercial Grade Wall Door Stop US26D (refer to DH21)
  - FS89, 3" Flexible Door Stop US3, US5, US10B, US15, US15A, US26 (refer to DH22)
  - JRS34, 4" Diecast Jumbo Rigid Door Stop US3, US5, US10B, US15, US15A, US26 (refer to DH22)
  - DSHP18, High Profile Solid Brass Dome Stop US3, US4, US5, US10, US10B, US15, US15A, US26, US26D, US32D, US1 (refer to DH23)
  - DSL4, Low Profile Solid Brass Dome Stop US3, US4, US5, US10, US10B, US15, US15A, US26, US26D, US32D, US1 (refer to DH23)
  - DSHD105, Heavy Duty Door Protector Hinge Pin Stop US3, US5, US10B, US15, US15A, US26, US26D (refer to DH26)
  - DSL81, Light Duty Door Protector Hinge Pin Stop US3, US5, US10B, US15, US15A, US26, US26D (refer to DH26)
  - OVLCRH-20, Oval Closet Rod Holder US26 (refer to DH27)



# NEW PRODUCTS UPDATE



## **BUILDERS HARDWARE**

### • **NEW PRICES**

BC97, Adjustable Ball Catch US3, US5, US10B, US15, US15A, US26, US26D (refer to DH28)  
STRKBC97, Full Lip Strike Plate RC for BC97 and DIB1 US3, US5, US10B, US15, US15A, US26, US26D (refer to DH28)  
RC88, Jumbo Roller Catch US3, US10B, ZINC (refer to DH28)  
BULCAT11, Bullet Catch US3, US5, US10B, US15, US26 (refer to DH29)  
BK14, Bi-Fold Ball Knob US3, US5, US10B, US15, US15A, US26, US26D (refer to DH30)  
PLA2, Back Plate for BK14 US3, US5, US10B, US15, US15A, US26, US26D (refer to DH30)  
DIFP218, Drive-In Finger Pull without nails US3, US5, US10B, US15, US15A, US26, US26D (refer to DH30)  
CH28, Coat and Hat Hook US3, US5, US26 (refer to DH31)  
HI11, 4" x 4" Blue Insignia Handicap Logo (refer to DH34)  
BDH3066, BDH3080, BDH Series Surface Mount Strap Wheel BLACK (refer to DH40)  
BDH3166, BDH3180, BDH Series Top Mount Single Wheel BLACK (refer to DH40)  
SCSBDH3066, SCSBDH3080, BDH Series Surface Mount Strap Wheel with Soft Close System BLACK (refer to DH40)  
SCSBDH3166, SCSBDH3180, BDH Series Top Mount Single Wheel with Soft Close System BLACK (refer to DH40)

## **ELECTRONIC & ELECTRIFIED HARDWARE**

- **NEW** NM300 Series Electrified Mortise Locks (refer to EE11)
- **NEW** SC400 Series Electrified Mortise Locks (refer to EE12)
- **NEW** DEKIT36 (for 36") and DEKIT48 (for 48"), Delayed Egress Option on 7700 Series Exit Devices (refer to EE14)
- **NEW** ESC7700 Electrified Escutcheon Exit Device Trims, all functions and lever designs US1 (refer to EE16)  
*Available September / October*
- **NEW** NESC9800 Electrified Escutcheon Exit Device Trims, all functions and lever designs US1 (refer to EE16)  
*Available September / October*
- **NEW** "LON" and "TAC" designs: ESC7700 & NESC9800 Electrified Escutcheon Exit Device Trims (refer to EE16)  
*Available December*
- **NEW** "RL" design: FS12RL, FS24RL, FSE12RL, FSE24RL (Heavy Duty Escutcheon) Exit Device Trims US32D (refer to EE18)
- **NEW** CRPS440B & CRPS480B Power Supplies rated at 4A @ 24V DC (refer to EE21)
- **NEW LOWER PRICE** on All Electrified Hinges (refer to EE23)
- **NEW** ELE4BB31 - 4 1/2" x 4 1/2" Electrified 4 Wires, 26 Gauge, Standard Weight 2-Ball Bearing Full Mortise US1 (refer to EE23)
- **NEW** ELE4BB5500 - 5" x 5" Electrified 4 Wires, 26 Gauge, Heavy Weight 4-Ball Bearing Full Mortise US10B (refer to EE23)
- **NEW** ELEPV010-LH (left hand) and ELEPV010-RH (right hand) 4 Wires, 26 Gauge,  
Electrified Intermediate Offset Pivot Hinge (refer to EE25)

## **MISCELLANEOUS ITEMS**

- **NEW LOWER PRICE** Electrification **ADD-ON** charge for Genesys Series Cylindrical Locks (refer to L39 or EE13)
- **NEW PRICES** Electrified Exit Device Trims for 7700, 9800, & 2200 Series Exit Devices  
(refer to E4-E5, E9, E18-E19, E24, E40, EE16-EE19)
- **NEW** Anti-Microbial Coating for mortise locks, other locksets, exit devices, door pulls, push and pull plates.
  - part # **ANTB** for Mortise locks and select Locksets (refer to L17, L24, L38, L43, L45, L79)
  - part # **HOS-ANTB** for Hospital Latch Trim (refer to L31)
  - part # **ANTB-EXIT** for Exit Devices (refer to E1-E2, E9, E11, E13, E15-E16, E24, E26, E28, E30-E31, E47-E49)
  - part # **ANTB-TRIM** for Exit Device Trims (refer to E7, E10, E12, E14, E21, E25, E27, E29, E36, E36, E42, E47, E50)
  - part # **ANTB-PLATE** for Push / Pull Plates (refer to DH5-DH6)
  - part # **ANTB-DP** for Door Pulls (refer to DH7)

**\*\*Must specify Anti-Microbial PART # with the selected item # as two separate line items when ordering.  
eg. CGN05 US26D with Anti-Microbial Coating, order: "CGN05 US26D" and "ANTB" as two line items.**



## *Introduction to Cal-Royal Products, Inc.*

CAL-ROYAL PRODUCTS, INC. was established in California in 1983. Since then, our management and staff have been dedicated to provide the best service and products to our customers. Cal-Royal currently has five warehouses nationally. Our corporate office and main facility is located in Commerce, California, with satellite warehouses in Arizona, Texas, Pennsylvania, and Georgia.

Cal-Royal is focused on providing “Innovative and Value Added” hardware products and accessories to the builders industry. Cal-Royal has continued to be the leader in import hardware. Our product offering is designed to comply with the Americans with Disabilities Act (ADA) and to encompass all levels of ANSI classification, Grades 1, 2 and 3 as well as UL requirements.

In keeping with our tradition of innovation, Cal-Royal is one of just three manufacturers providing the Clutch System (Genesys, Grade 1) for lever locks. Furthermore, we offer a complete line of mortise locks, exit devices, door closers, hinges and many other hardware and trim products.

Cal-Royal has provided hardware for many notable projects built or renovated in the past 37 years. The MGM Grand Hotel in Las Vegas, the Pentagon in Washington D.C. and several buildings of the Internal Revenue Service to name just a few. Additionally we have provided products for Hilton and Marriott Hotels, several Federal courthouses and many commercial buildings, hospitals and retail stores.

Cal-Royal’s commitment is to deliver the highest quality, cost-effective service and value to our customers. Each member of our professional staff has been trained to provide quality construction, technical and management services to our customers. Please consider our company and team for your future hardware requirements.

Respectfully,

Cal-Royal Products, Inc.



To Whom It may Concern,

This is to verify that "Cal-Royal Products, Inc." is a major supplier of door hardware. We are currently supplying door hardware to many national hotel chains. Many architectural firms in the U.S. and International market have approved our door hardware products. We assure you our products are of the highest quality. All our products meet or exceed all ANSI and UL specification for the U.S. market, and now includes a line of European style door hardware.

The following list is sample of the hotels and U.S. government agencies, which our products were approved and are still quite satisfied with our product line. These hotels and government facilities are located in both the international and domestic market.

### **Private, Government Organizations and Hotel List**

Abu Dhabi Airport	UAE	OMHM Habitations Nicolet	Canada	Salle de Spectacle de St-Jérôme	Canada
Dubai Airport	UAE	Monte Carlo Hotel	Las Vegas, NV	Bureaux PSP Montréal	Canada
Four Seasons Hotel	Egypt	Circus Circus Hotel	Las Vegas, NV	Americas Best Value Inn & Suites	Flagstaff, AZ
JW Marriott & Marriott Hotels	Worldwide	MGM Hotel	Las Vegas, NV	The Westin Hotel	Phoenix, AZ
Sheraton Hotels	Worldwide	Sheraton Hotel	New Orleans, LA	Orchard Pointe Assisted Living Facility	Glendale, AZ
Westin Hotels	Worldwide	Oasis Hotel	Cancun, MX	Luke Air Force Base	Litchfield Park, AZ
Hilton & Double Tree Hotels	Worldwide	Comfort Inn Suites	Duluth, GA	29 Palms Military Housing	29 Palms, CA
Holiday Inn / Holiday Inn Exp	Worldwide	West Side Church	Lexington, KY	St. James Roman Catholic Church	Glendale, AZ
Comfort Inns	Worldwide	Comfort Inn Suites	South Bend, IN	Proxy 333 Apartment Homes	Phoenix, AZ
Red Roof Inns	Worldwide	Don Cesar Beach Resort	Florida	Wildlife World Zoo	Litchfield Park, AZ
Radison Hotels	Worldwide	Whitney Manor	Cheshire, CT	Basis Charter Schools	Arizona
Sun Suite & Affiliates	Worldwide	Sun Suites	Georgia	1044 Downing Street	Denver, Colorado
Embassy Suites	Worldwide	Spring Hill Suites	Ft. Lauderdale, FL	16th Street	Denver, Colorado
San Stefano Four Seasons Hotel	Egypt	Hawthorn Suites	Indianapolis, IN	28th and Blake	Denver, Colorado
Sofitel Pyramid Hotel	Egypt	First Assembly of God	Delphi, IN	Alameda Station	Denver, Colorado
Cairo Airport	Egypt	Resolute Child Development	Indianapolis, IN	Parkhill Village West 2	Denver, Colorado
Intercontinental Hotel	El Gouna, Egypt	Christ the Savior Church	Indianapolis, IN	Vela Meridian	Denver, Colorado
Kuwait Embassy	Cairo, Egypt	Far Best Foods	Indianapolis, IN	Six Flags Over Texas	Arlington, TX
American Embassy	Maadi, Egypt	Free Methodist Church	Murfreesboro, KY	Broadstone Farmers Market Apartments	Dallas, TX
McGuire (Air Force Base)	Wrightstown, NJ	Southport Christian Church	Southport, IN	The Alexan Apartment Communities	Dallas, TX
US Federal Court Office Building	Washington D.C.	Country Inn & Suites	Marion, IN	Cityline Apartments	Richardson, TX
IRS Office Buildings	U.S.A.	Valley Mills Christian	Owensboro, KY	Home2Suites	Texas
Dover Air Force Base	Dover, Delaware	First Lutheran Church	Louisville, KY	Home2Suites	Lake Charles, LA
International Trade Offices	Portsmouth, ME	Universal Towers	Orlando, FL	Home2Suites	Oklahoma City, OK
YMCA Offices	S. Portland, NH	Andy Mohr Ford Dealership	Plainfield, IN	Temecula Assisted Living Facilities	California
Pentagon Office Buildings	Washington D.C.	Various Amusement Parks	Florida	Ocean Hills Assisted Living Facilities	California
Fort Carson	Colorado Springs, CO	Auction Broadcasting Offices	Indianapolis, IN	Our Lady of Perpetual Help	Indio, CA
Camp Lejeune	Camp Lejeune, NC	AMLI @ Riverbed Rehab Offices	Indianapolis, IN	Hudson Lights Retail and Apartments	Ft. Lee, NJ
Beals Dept. Stores	Florida	Howard Johnson	Albany, GA	Fort Dixon	New Jersey
Caribe Royal Convention Center	Orlando, FL	Olympia Park Hotel	Salt Lake City, UT	Hydro Québec Centre D'interprétation Beauharnois	Canada
The Pointe on Westshore	Tampa, FL	Keystone Senior Living	Douglasville, PA	Usine de filtration D'eau Potable Riverside Longueuil	Canada
US Customs Office Buildings	Tampa, FL	Sleep Inn	Middletown, NY	Palais de Justice Temporaire Rimouski	Canada
Cook Building Office Buildings	Bloomington, IN	Harrah's Casino	Atlantic, NJ	Hydro-Québec Poste de Lorimier	Canada
Ohio State University	Columbus OH	Riverbend Condo's	Newark, NJ	Réservoir de la Savane Longueuil	Canada
North State University	Denton, TX	Riverbend Multi-Family	New Jersey	Réaménagement Bureau Ministère de la Sécurité Publique Longueuil	Canada
Philadelphia School District	JFK Center	Core National Communities	Waterman, CA	Ville de Montréal, Centre de service Dickson	Canada
Clinique Médicale Urbaine	Montréal	Core National Communities	Mission Cove, CA	Carrefour de l'Estrie, Redéveloppement	Sherbrooke

We thank you for your interest in Cal-Royal Products, Inc. and we hope to serve you in the near future in all your hardware needs for the hotel and commercial buildings.



September 2020

Re: Buy American Act / American Recovery and Reinvestment Act

To All Customers and potential customers:

We want to take this opportunity to discuss the Buy American Act and the American Recovery and Reinvestment Act of 2009 in connection with the purchase and use of Cal-Royal products.

Buy American Act:

The Buy American Act ("BA Act") specifies that the U.S. Government and certain other third parties which utilize federal funds for a project must give preferred status to goods that are manufactured in the U.S.A., however, there are several exemptions. Two of the listed exemptions, which apply to products supplied by Cal-Royal Products, Inc., are as follows:

1. The U.S. Trade Representatives have waived the requirements of the BA Act for products that are purchased from countries that are members of the World Trade Organization (WTO), and signatories of the Government Procurement Agreement ("GPA"). Taiwan and South Korea are members of the WTO and signatories to the GPA. Accordingly, products purchased by Cal-Royal from these two countries are exempt from the BA Act, and may be purchased for projects covered by the BA Act without penalty or violation.

Cal-Royal products that are acceptable for use on BA Act projects include:

## **LOCKSETS**

- NM Series Grade 1 Mortise Locks (Taiwan)
- SC Series Grade 1 Mortise Locks (Taiwan)
- HOS-PP30 Series Grade 1 Hospital Push / Pull Latch (Taiwan)
- Genesys Grade 1 Cylindrical Leversets (Korea)
- Calypso Grade 1 Cylindrical Leversets (Taiwan)
- LRC Series Grade 1 Heavy Duty Cylindrical Lockset with Ligature Resistant Lever (Taiwan)
- Omega Grade 1 Cylindrical Locksets (Taiwan)
- Grand Series Grade 2 Tubular Leversets (Korea)
- Explorer Grade 2 Heavy Duty Cylindrical Leversets (Korea)
- Commander Grade 2 Heavy Duty Cylindrical Leversets (Korea)
- Tuscany Grade 2 Heavy Duty Cylindrical Leversets (Korea)
- Pioneer SL Grade 2 Cylindrical Leversets (Korea)
- Challenger Grade 2 Cylindrical Leversets (Korea)
- Barrington Grade 2 Cylindrical Locksets (Korea)
- HIL, JHIL, CIL Series Grade 2 Interconnected Locks (Korea)
- CRB800 Grade 1 Heavy Duty Deadbolts (Taiwan)
- T300 Grade 2 Heavy Duty Deadbolts (Taiwan)
- T220 Grade 2 Standard Duty Deadbolts (Korea)
- SQ300 Grade 2 Heavy Duty Square Deadbolts (Korea)
- IND90-G2 Grade 2 Commercial Indicator Deadbolts (Korea)
- Legacy Series Grade 3 Residential Levers (Taiwan)
- Clipper Series Grade 3 Residential Deadbolts (Taiwan)

## **DOOR CLOSERS**

- KN900PBF Grade 1 Heavy Duty Door Closers (Korea)
- KCR441 & KCR441DA Grade 1 Heavy Duty Door Closers (Korea)
- 88 Series Grade 1 Concealed Overhead Door Closers (Taiwan)

## **ELECTRONIC LOCKSETS**

- CR3000 Grade 1 Digital Keypad Door Locks (Taiwan)
- CR6000 Grade 1 Digital Touch Screen Door Locks (Korea)
- PL7100 Grade 1 Commercial Phone Lock BLE (Taiwan)
- CR9000 Grade 2 Digital Touch Screen Door Lock (Korea)
- ZWDB-10 Meets Grade 3 Standards Z-Wave Touch Screen Electronic Deadbolt (Taiwan)

## **HINGES (Taiwan)**

- TABB31 4 1/2" x 4 1/2" Standard Weight, Two-Ball Bearings
- TABB545 5" x 4 1/2" Standard Weight, Two-Ball Bearings
- TABB5200 4 1/2" x 4 1/2" Heavy Weight, Four Ball-Bearings

## **EXIT DEVICES**

- 7700 Series Grade 1 Exit Devices (Taiwan)
- 9800 Series Grade 1 Exit Devices (Taiwan)
- 2200 Series Grade 1 Exit Devices (Taiwan)
- 4400 Series Grade 2 Exit Devices (Taiwan)
- T5000 Series Grade 2 Exit Devices (Taiwan)

## **CYLINDERS**

- CRP HSK High Security Cylinders (Korea)
- CRP Combo Cylinders (Korea)

2. Section 10a of the Act provides that the U.S. Government may purchase foreign products where U.S. made products are not available in sufficient quantity and/or where a U.S. equivalent is sold at an unreasonable price. Executive Order 11051 issued on September 27, 1962 established that a U.S. made product is unreasonable in price when it sells for six percent (6%) or more than the foreign equivalent product. Cal-Royal products are competitively priced and in most cases offer greater than 6% savings over domestic products.

As most projects covered by the BA Act exceed the minimum monetary thresholds and all of the above Cal-Royal products satisfy one or both of the above exemptions to the BA Act, these products can be purchased for such projects covered by the BA Act.

## 2009 American Recovery and Reinvestment Act:

The American Recovery and Reinvestment Act (ARRA) includes a “Buy American” provision as well as an exemption to that provision for members of the WTO and signatories of the Government Procurement Agreement (GPA). See above list confirming that Cal Royal’s products originate from WTO and GPA countries. Cal-Royal customers should also be aware that the ARRA has additional restrictions and should take steps to confirm the applicability of the above exemptions.

Cal-Royal is currently locating alternative suppliers in WTO / GPA countries for hinges to be used on projects covered by the American Recovery and Reinvestment Act or Buy American Act.

It is also worth noting that all of Cal-Royal's products meet and/or exceed every ANSI definition of quality or requirement for performance standards. We also have products that are Underwriters Laboratory (UL) rated and approved in their respective countries.

In short, we encourage our customers to bid on appropriate government-related jobs using Cal-Royal products. That being said, as this letter does not constitute legal advice, customers should verify for themselves the applicability of the BA Act and/or the ARRA and their related exemptions.

We thank you for your business and continued support.

Sincerely,

Cal-Royal Products, Inc.



## LEED STATEMENT

# CAL-ROYAL PRODUCTS, INC.

## Post and Pre-Consumer Recycled Content Summary

	Post-Consumer Recycled Content*	Pre-Consumer Recycled Content**	TOTAL LEED Recycled Content Percentage
<b>ALUMINUM DOOR CLOSERS</b>			
CR801S, CR801, N900PBF, N900PBFDA, CR441 SERIES, 300 SERIES, 700 SERIES, S-430P	48%	0%	48%
<b>EXIT DEVICES</b>			
<i>EXIT DEVICES</i>	61%	0%	61%
<b>TRIMS</b>			
8000L Series	16.7%	24.7%	29.1%
8000K Series			28.7%
<b>LOCKSETS</b>			
<b>NM Series</b>			
Rose & Lever in Brass	10%	0%	10%
Escutcheon & Lever in Brass	5%	0%	5%
Rose & Lever in Stainless Steel	0%	0%	0%
Escutcheon & Lever in Stainless Steel	0%	0%	0%
<b>SL Series</b>	12.52%	4.5%	17.02%
<b>XP Series</b>	11.4%	3.5%	14.9%
<b>SG Series</b>	11.96%	4.0%	15.96%
<b>ULT360 Series</b>	25%	16%	28%
<b>ULT362 Series</b>	28%	15%	29%
<b>BA Series</b>	13%	17%	23%
<b>Genesys Series</b>	66%	0%	66%
<b>Omega Series</b>	66%	0%	66%
<b>DOOR HARDWARE</b>			
AUTOFLM-1	0%	5%	5%
AUTOFLW-22	0%	8%	8%

\*Recycled content defined in accordance with industry standards.

\*\*Pre-consumer recycled content refers to waste material that is immediately placed back into the production cycle. Waste materials generated by the production of these products are collected and shipped off site where it then reenters the recycle stream.

FOR MORE DETAILS ON THE RECYCLED MATERIAL CONTENT  
Please visit our website at [www.cal-royal.com](http://www.cal-royal.com) under  
**CERTIFICATIONS AND UPDATES**



**CAL-ROYAL PRODUCTS, INC.**  
and  
**DKS Steel & Door Frame Systems, Inc.**  
are  
**Florida and Texas Building Code Approved!**



**Florida Building Code #: FL13922 and FL13624**  
**Texas Evaluation ID #: DR-472**

To All Our Valued Customers:

Cal-Royal Products, Inc. and DKS Steel Door & Frame Systems, Inc. are pleased to announce component approval of our door hardware and hollow metal doors for exterior use within the state of Florida, Texas and participating states including Louisiana, Alabama, Mississippi, and Georgia.

**Approved Cal-Royal Hardware types include:**

- Grade 1 Genesys Series Cylindrical Locksets
- Grade 1 NM Series Mortise Locksets (NM is the new name for our M Series Mortise Locks)
- Grade 2 Pioneer Series Cylindrical Locksets
- Grade 2 T300 Series Deadbolts
- Grade 1 F7700 Rim Fire Exit Device
- Grade 1 F7700V Vertical Rod Fire Exit Device

**Approved DKS Door types include:**

- 1800 Series Steel Commercial Doors

**FLORIDA:** To view the complete information, please log on to **[www.floridabuilding.org](http://www.floridabuilding.org)** and select “**Product Approval**” and enter “**FL13922**” for Cal-Royal Products, Inc., and “**FL13624**” for DKS Steel Door & Frame Systems, Inc.

**TEXAS:** To view the complete information, please log on to **[www.tdi.texas.gov](http://www.tdi.texas.gov)** and search for “**Windstorm Inspection Program**”, select “**Product Evaluation Index - Hinged Doors - Steel**”, and then look for “**Cal-Royal Products, Inc.**” on the table, then click on the report number “**DR-472-PDF**”.

Note:

- within the state of Florida, Dade, and Broward counties require door, frame, and hardware system use.
- M Series refers to our “NM” Series Mortise Lock.

Thank you for your support. We look forward to serving you.

**CAL-ROYAL PRODUCTS, INC. and DKS Steel & Door Frame Systems, Inc.**





ARMED SERVICES ASSOCIATION  
WASHINGTON, D.C.

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RE: United States Military Purchasing Directory

DATE: 6/18/04

VENDOR NUMBER: 152908349

Director of Government Sales  
Cal-Royal Products Inc  
6605 Flotilla St.,  
Los Angeles, CA 90040

Dear Director of Government Sales:

Our records from the Defense Logistics Agency indicate that your company is currently registered in the Central Contracting Registry (CCR). Your registration qualifies you to do business with the Department of Defense (DoD), and makes you eligible to be listed in the United States Military Purchasing Directory.

The Directory is distributed to all purchasing offices throughout the DoD every fiscal year. Purchasing officers and DoD contracting personnel specifically use the Directory to locate vendors from whom they will buy goods and services.

Vendors registered with the CCR are eligible to be listed in the Directory, or place display ads, to further market themselves to military buyers. If you are interested in being listed in the Directory for the upcoming fiscal year, you can request information from our offices in Washington, D.C. by calling 1-800-981-3845, Mon.-Fri., 9:00am-4:00pm, E.S.T.

The information will be faxed to you immediately.

Sincerely,

Michael J. Briggs  
A.S.A. Vendor Relations Office

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P.O. BOX 42186	WASHINGTON, D.C.	20015-0786	1-800-981-3845	FAX 1-800-981-3846
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# TERMS AND CONDITIONS FOR CAL-ROYAL PRODUCTS

## CORPORATE OFFICE CAL-ROYAL PRODUCTS INC.

6605 Flotilla Street, Commerce, California 90040-1614  
☎ 323-888-6601 / 800-876-9258 ☎ 323-888-6699 / 800-222-3316  
✉ sales@cal-royal.com

### SOUTHWEST DISTRIBUTION

#### SOUTHWEST OPENING SOLUTIONS

1725 W. Williams Drive  
Phoenix, AZ 85027  
☎ 602-698-7779  
✉ Info@SWOpeningSolutions.com  
🌐 www.SWOpeningSolutions.com

### MIDWEST DISTRIBUTION

#### SSG TEXAS

2020 Exchange Drive  
Arlington, TX 7601  
☎ 817-275-3070  
☎ 817-275-3068  
✉ gregshuck@ssg-texas.com

### GEORGIA WAREHOUSE

#### BOWEN SALES INC.

1551 Fairground Road,  
Madison, GA 30650  
☎ 404-549-4533  
☎ 404-592-1987  
✉ Kelly@bowensalesinc.com  
🌐 www.bowensalesinc.com

### EASTERN DISTRIBUTION

#### TAB INDUSTRIES, LLC

2525 N 12 St.  
Reading, Pennsylvania 19605  
☎ 610-921-0012  
☎ 610-921-0014  
✉ tbrizek@TABIndustries.com

423 Blueberry Street

Houston, TX 77018  
☎ 817-275-3070  
☎ 817-275-3068  
🌐 www.ssg-texas.com

### COLORADO WAREHOUSE

#### STEELE-BREZ & ASSOCIATES INC.

2650 W 2<sup>nd</sup> Ave,  
Denver, CO 80219  
☎ 303-922-3692  
☎ 303-922-8873  
✉ darlene@steele-brez.com  
🌐 www.steele-brez.com

## TERMS AND CONDITIONS OF SALE

**ORDERING:** All orders must be faxed or emailed to Cal-Royal products for confirmation before shipment. Email all orders to [orders@cal-royal.com](mailto:orders@cal-royal.com)

**TERMS:** Net 30 days.

**FREIGHT:** Shipments are F.O.B. Commerce warehouse, for orders of \$2000.00 or more, excluding Alaska and Hawaii (\$2500.00 for Western Canada, \$3500.00 for Eastern Canada, \$3000.00 for Puerto Rico, and \$1700.00 for Washington and Oregon) are shipped prepaid within the continental United States and Canada. Orders less than these amounts will be shipped freight prepaid and added to the invoice.

**CHANGES, CANCELLATIONS OR SPECIAL ORDERS:** Canceled orders are subject to 10% service charge. Changes or cancellations to an order must be in writing and may result in additional charges for labor and/or materials. Changes may result in a delay in the scheduled ship date. Additions to orders will be entered as separate stand-alone orders and must qualify for all terms of sale, including discounts on an individual basis. Changes or deletions resulting in an order size of less than our minimum will not be accepted. Orders for non-cataloged, special or nonstandard items may not be canceled. Factory orders may not be changed within 30 days of the scheduled ship date.

**CREDIT APPROVAL:** Acceptance of all orders is subject to approval of Cal-Royal Products, Inc. Trade references and banking information must accompany orders from new accounts.

**FREIGHT OR SHORTAGE CLAIMS:** Customer assumes all delivery risks of loss or damage. If cartons are lost or damaged, immediately contact delivering carrier to make claim. If assistance is needed from Cal-Royal Products, Inc. please contact our Claims Department. Shortage claims must be made within seven working days from receipt of shipment. Cal-Royal Products, Inc. is not responsible or liable for any loss or shortage on merchandise to third party shipping.

**RETURN OF MERCHANDISE:** Claims for shortages and/or incorrectly filled orders must be filed with Cal-Royal Products, Inc. within 10 days of receipt of material. Price adjustments must also be made in writing to Cal-Royal within 30 days from receipt of invoice. No returned goods will be accepted without written approval from Cal-Royal. Credit will be based on upon the written authorization by Cal-Royal. Such returns must be prominently marked with the return goods authorization number and shipped prepaid. Returns, if approved, will be subject to a minimum restocking charge of 20% (25% for Canada) for unopened cases of stock product and must be received in mint condition. Non stock materials are not returnable. Under no circumstances is Cal-Royal liable for incidental or consequential damages. Charge-backs will not be allowed. No cash refund given, exchange or replacement only.

**STANDARD PACKAGING:** We reserve the right to change order quantities to nearest standard package quantities. Broken boxes are subject to an additional 20% service charge.

**ACCESSORIAL CHARGES:** *ACCESSORIAL CHARGES* for shipments to construction sites / residential & lift gates will be billed @ **\$75.00 min** for **PALLET SHIPMENTS**.

**AUTHORITY OF TERMS AND CONDITIONS:** The terms mentioned herein are the only ones Cal-Royal Products, Inc. will honor, and any exceptions must be approved and confirmed by an officer of Cal-Royal Products, Inc. Terms and Conditions of buyer's purchase orders will not be honored unless an agreement is reached in writing beforehand. Cal-Royal Products Inc. has the right to refuse credit to anyone, or has the right to refuse to fulfill any orders. No representations, arrangements or agreements not appearing on the order shall be binding to Cal-Royal Products, Inc.

**PRICES:** Are subject to change without notice. All errors and omissions subject to correction.

**MINIMUM ORDER:**

**\$50.00 net.** Orders under \$50.00 are subject to an \$8.00 service charge. No exceptions.



VIII

(800) 876-9258 | [www.cal-royal.com](http://www.cal-royal.com) | SEPT 2020



## MERCHANDISE WARRANTY

Goods are warranted against defects in manufacture for one year. The company makes no other warranty, and all implied warranties including any warranty of merchantability or fitness for a particular purpose are limited to the duration of the expressed warranty period as set forth above. Purchase order, invoice number or sales order number must be presented in order to claim any warranty or replacements.

The company's maximum liability hereunder is limited to the purchase price of the products in no event shall the company be liable for any consequential, indirect, incidental or special damages of any nature arising from the sale or use of this product, whether in contract, tort, strict liability or otherwise.

Products will not be accepted for repair or replacement under this warranty unless we have given prior authorization for their return. Upon receipt of products returned for repair or replacement we will determine whether products qualify for repair or replacement under this warranty; if they do not, we will notify our customer of estimated costs of repair or replacement involved and will obtain authorization prior to proceeding. We have no liability to pay any costs of repair performed by anyone other than us, unless in each instance we have given prior written approval of such repair in which case we will pay what we consider to be the reasonable cost thereof.

All materials and finishes meet ANSI /BHMA standards at time of shipment. We do not warrant finishes exposed to hostile environments, such defect has been caused by corrosion or ordinary wear and tear.

## CAL-ROYAL LIFETIME LIMITED WARRANTY

The Cal-Royal Products listed below are warranted against defects in mechanical workmanship and 3 year finish warranty for the life of the opening into which they are installed. This warranty is valid only if the products are installed according to the manufacturers' explicit directions, are the correct application for the opening in question (i.e.: a grade 2 lock is not acceptable in a school or university application) and those products that require adjustment at installation are adjusted correctly. It is assumed that if either the door or frame components in the opening has been violated and therefore the Warranty of those Cal-Royal products in that opening would be null and void. It is also assumed by this Warranty that those products that require periodic adjustment or maintenance are receiving that attention through the life of the opening.

This warranty DOES NOT COVER:

1. Abuse or vandalism
2. Products used in an incorrect application
3. Scratches or normal wear in a products finish (Does not cover US10B / 613)
4. Products that have been improperly installed or adjusted
5. Any Product installed in a hostile environment causing premature corrosion, wear and tear
6. The cost incurred in removing and installing a replacement product. Upon return of defective product to Cal-Royal Products, Cal-Royal may repair or replace the product or refund the purchase price. Cal-Royal is not liable for incidental or consequential damages.

The products that are covered by the above Lifetime Limited Warranty are:

1. All commercial Grade Hinges.
2. Genesys, Calypso, LRC, Omega, NM, SC Series Grade 1 Locks – Mortise and Cylindrical Locksets.
3. Columbus, CIL, HIL, JHIL, Pioneer, Commander, Challenger, Explorer, and Barrington Grade 2 Locksets.
4. CRB800 Series Grade 1 & CB160, SQ300, T300, T400 Series Grade 2 Deadbolts.
5. 900, CR441, CR801 / CR801S, 300, 500, 700 Series Grade 1 Door Closers.
6. 6600, 7700, 9800, 2200 Series Grade 1 & 4400 Series Grade 2 Exit Devices.

Cal-Royal Locksets, Door Closers, Exit Devices and Door Hardware are designed to provide the highest standard of product quality and performance. To maintain a long-lasting finish great care should be taken. Constant use and exposure to elements and high traffic would require cleaning on a regular basis.



## Product Warranty



### EXIT DEVICE TRIMS WARRANTY

LIMITED WARRANTY: Cal-Royal Products (CRP) warrants that its products are free from defects in workmanship and material under normal use and service.

1. All Cylindrical Trims (5 years)
2. Escutcheon Trims (3 years)
3. All 8000 Series Exit Trims (1 year)
4. All Electrified trims (1 year)

### ELECTRIFIED HARDWARE WARRANTY (2 YEARS LIMITED WARRANTY)

LIMITED WARRANTY: Cal-Royal Products (CRP) warrants that its products are free from defects in workmanship and material under normal use and service. Since CRP does not control product usage, CRP makes no representation as to the degree of security conveyed by the use of any product. This warranty does not cover defects or damage which occur from improper maintenance, improper storage, improper installation, shipping and handling, ordinary wear and tear, misuse, abuse, accidents, unauthorized service, work done by others or consequential damages.

CRP will not pay for the cost of repair performed other than in accordance with this warranty. CRP can only perform authorized warranty work at the factory. CRP's only liability, in tort or contract, whether under this warranty or otherwise, is limited to providing repair or replacement of any product or component part which is proven to be defective as covered by the warranty, within three (3) years after delivery from CRP to the original purchaser. Written notice of a product or component part believed to be defective, as covered by this warranty, should be sent to Cal-Royal Products 6605 Flotilla St, Commerce, CA 90040.

Include Claimant's name, address, phone, and identification of the product, invoice number and date, and a brief description of the defect. Upon receipt of such notice, a CRP representative will contact claimants to where to ship such product or component part, with shipping charges prepaid for examination, and in the event such examination reveals a defect covered by this warranty, the product will be repaired or replaced. This warranty is in lieu of all other express warranties. To the extent permitted by law, all implied warranties are limited to the duration of this warranty.

CRP shall not be liable for any incident or consequential damages. Some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damages, so the above may not apply to you. This warranty gives you specific legal rights, and you may have other rights, which vary, from state to state.

### HEAVY DUTY KEYLESS DOOR LOCKS, DIGITAL KEYPAD LOCKSETS AND DEADLOCKS WARRANTY

1. CRCODE007, CRCODE101, CRCODE200 SERIES KEYLESS DOOR LOCKS  
Goods are warranted to be free from manufacturing defects in material and workmanship which carries a ONE YEAR Limited Warranty on Electronic Series Locks (CRCODE007) and a TWO YEAR Limited Warranty on Mechanical Series Locks (CRCODE101, CRCODE202, CRCODE203, CRCODE204) and its conditions, limits and policies.
2. CR3000, PL7100, RS2100, CR6000, CR9000 DIGITAL KEYPAD DOOR LOCK  
Goods are warranted against defects in manufacture for two (2) years after the date of manufacture. The company makes no other warranty, all implied warranties including any warranty of merchantability or fitness for a particular purpose are limited to the duration of the expressed warranty period as set forth above.
3. DB5000, DB9000, ZWDB-10 (Z-wave) DIGITAL KEYPAD DEADLOCK WARRANTY  
Goods are warranted against defects in manufacture for two (2) years after the date of manufacture for mechanical parts and one (1) year for electronic parts. The company makes no other warranty; all implied warranties including any warranty of merchantability or fitness for a particular purpose are limited to the duration of the expressed warranty period as set forth above.

The company's maximum liability hereunder is limited to the purchase price of the products in no event shall the company be liable for any consequential, indirect, incidental or special damages of any nature arising from the sale or use of the product, whether in contract, tort, strict liability or otherwise. Seller's warranty shall not be enlarged, diminished or affected by no obligation or liability shall arise out of Seller's rendering of technical advice or services in connection with Buyer's order of the goods furnished hereunder.

This warranty DOES NOT COVER:

1. Abuse or vandalism
2. Products used in a wrong application
3. Scratches or normal wear in a products finish (Does not cover US10B/613)
4. Products that have been improperly installed or adjusted
5. Any products installed in a hostile environment causing premature corrosion, wear and tear
6. The cost incurred in removing and installing a replacement product. Upon return of defective product to CAL-ROYAL Products, CAL-ROYAL may repair or replace the product or refund the purchase price. CAL-ROYAL is not liable for incidental or consequential damages.

## TERMS AND CONDITIONS FOR LITES AND LOUVERS

1. Limited Warranty: Lites and Louver products shall be warranted for a period of five years from the date of the first delivery provided by CAL-ROYAL. The warranty is based upon the product being used with the application of the hardware for which it was designed and that it meets the standard industry specifications provided by CAL-ROYAL, if any, so as long the products are installed and used as followed, and are free from defects in material and workmanship. This warranty is limited to the replacement or repair at the option of CAL-ROYAL.
2. CAL-ROYAL will not be subjected to any other or future liability and claims for defects and damages occurred from improper installation, adjustment, lack of maintenance, accidents, improper shipping and handling, use with unauthorized parts, or inappropriate product specifications. CAL-ROYAL will not be responsible for the costs of replacement or repair performed other than in accordance to this warranty. No other warranty indicated or implied is valid.
3. The Purchaser agrees to pay CAL-ROYAL all sums properly invoiced to Purchaser for the products that are absolute and unconditional. Payments that are due by the Purchaser shall not be withheld, or delayed in any under circumstances.
4. Claims: Any claim submitted by the Purchaser with reference to the products shall be considered waived by the Purchaser unless submitted in writing in accordance to this paragraph. Upon receipt of the products, the Purchaser shall inspect it immediately, prior to any installation or use of such products. Any products that are subject to claim for defects or shortages, the Purchaser shall provide a written notice to CAL-ROYAL within fourteen days after the Purchaser's receipt of shipment. Otherwise, the products shall be deemed finally accepted and inspected by the Purchaser.
5. Additional Terms: Acceptance of the products shall be limited to the terms and conditions that are stated herein. Any terms and conditions included in the Purchaser's purchase order or acceptance that are in addition to, or are in conflict with, the terms and conditions stated herein shall not become a part of the agreement between the Purchaser and CAL-ROYAL unless approved and confirmed by an authorized officer of CAL-ROYAL.
6. Glazing products, and Glass replacements are not included in this warranty.

## TERMS AND CONDITIONS FOR SLIDING DOOR HARDWARE

**Limited Warranty:** SDH and BDH Series, Sliding Door Hardware products shall be warranted for a period of five years from the date of the first delivery provided by CAL-ROYAL. The warranty is based upon the product being used with the application of the hardware for which it was designed and that it meets the standard industry specifications provided by CAL-ROYAL, if any, so as long the products are installed and used as followed, and are free from defects in material and workmanship. This warranty is limited to the replacement or repair at the option of CAL-ROYAL.

# FINISH MAINTENANCE AND CARE

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## CAL-ROYAL RECOMMENDS THAT THE UNIT AND ITS FUNCTIONS BE TESTED REGULARLY

Despite excessive testing, and due to but not limited to, any or all of the following; electrical or communications disruption, criminal tampering, it is possible for the unit to fail to perform as expected. CAL-ROYAL does not represent that the product may not be compromised or circumvented; or the product will prevent any property loss, personal injury, robbery, fire or otherwise; nor the product will in all circumstances provide adequate warning or protection. A properly installed and maintained locking device may only reduce the risk of burglary, robbery, fire or otherwise, but this is not an assurance that these events will not occur. Seller shall have no liability for any loss, property damage, personal injury based on a claim that the unit/product failed to give warning. It is therefore the obligation of the installer to advise or inform the consumer to take any or all precautions for his or her safety including, but not limited to, fleeing the premises and calling the proper authorities in order to mitigate the possibilities of harm, injury and/or damage.

CAL-ROYAL is not liable of either the property or safety of the user's family, employees, and limits its liability for any loss or damage including incidental or consequential to CAL-ROYAL's original selling price of the product regardless of the cause of such loss or damage.

Products will not be accepted for repair or replacement under this warranty unless we have given prior authorization for their return. Upon receipt of products returned for repair or replacement, we will determine whether products qualify for repair or replacement under this warranty; if they do not, we will notify the customer of estimated cost of repair or replacement involved and will obtain authorization prior to proceeding. We have no liability to pay any cost of repair performed by anyone other than us, unless in each instance we have given prior written approval of such repair in which case we will pay what we consider to be reasonable cost thereof.

In the event of a defective product, contact the security professional who installed and maintains your security system. In order to abide by this warranty, the defective product must be returned by the security professional, shipping costs prepaid and insured to CAL-ROYAL. After replacement or repair of the product, CAL-ROYAL assumes the cost of returning products under warranty. CAL-ROYAL shall have no obligation under this warranty, or otherwise, if the product has been repaired by others, improperly installed, improperly used, abused, altered, damaged, subject to accident, nuisance, flood, fire or acts of nature. CAL-ROYAL will not be responsible for any dismantling, reassembly or re-installation charges.

All materials and finishes meet ANSI / BHMA standards at time of shipment. We do not warrant fixes exposed to hostile environments, such defect has been caused by corrosion or ordinary wear and tear.

This warranty and remedies set forth above are exclusive and in lieu of all others, oral or written, expressed or implied. No dealer, distributor, agent or employee is authorized to make any modification or addition to this warranty.

Some states do not allow the exclusion or limitation of implied warranties or limitation of liability for incidental or consequential damages, so the above limitation or exclusion may not apply to you.

## FINISH CARE

Finishes on all products are produced to the highest quality standards to ensure they stay in perfect order year after year. However, some finishes can deteriorate if they are exposed to corrosive vapors, coastal air, salt spray or high humidity. Brass finishes are susceptible to tarnishing if they come in contact with air, moisture or wet paint, particularly in exterior locations. To overcome this, it is wise to coat all external brass finishes with a non-abrasive furniture or car wax immediately after installation, and to remove all locks before painting doors. Regular wiping with a soft cloth, occasional polishing with a non-abrasive furniture or car wax and take care not to scratch the protective finish on brass fittings will also prevent tarnishing.

- US3 (Polished Brass), US4 (Satin Brass), US5 (Antique Brass), US10 (Satin Bronze), US10A (Antique Bronze), US15 (Satin Nickel), US15A (Satin Nickel Oxidized), ALUMINUM, DURO, GOLD lacquered or clear-coated finishes can simply be cleaned by wiping with a clean soft damp (not wet) cloth. A mild soap may be lightly used if very dirty. Particular care should be taken to avoid using lacquer thinners, caustic soaps, abrasive cleaners or polishes as these could damage the coating and result in tarnishing. Initial care for finishes requires only periodic cleaning with mild non-abrasive soap and light buffing with a soft cloth.
- PVD (Physical Vapor Deposition) is a technologically advanced finish coating that provides the most surface protection against environmental elements and everyday wear and tear. PVD matches clear-coated finishes in appearance, yet surpasses them in durability. PVD finishes protect against corrosion, tarnish, wear, discoloring



# FINISH MAINTENANCE AND CARE

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and peeling for the lifetime of the part to which it has been applied. This kind of finish can be maintained by wiping with a clean soft damp cloth.

- US10B (Oil Rubbed Bronze) finishes can be wiped with a small amount of vegetable or mineral oil on a soft cloth. Excessive oil may cause residue to come off on contact with hands or clothing materials and would even attract dusts that would eventually become grime. Household detergents and mild abrasive powder may be used to restore the high metal color without seriously affecting the original compound of the metal. Then rub with a paste of wax.
- US26 (Bright Chrome), US26D (Satin Chrome), US32 (Stainless Steel) and US32D (Satin Stainless Steel) can be maintained by wiping with a clean soft damp cloth. A high-grade chrome polish may be used according to directions to clean and restore the original shine and satin finish.
  - Depending on the environment where the product is used, blemishes can appear on stainless steel products to help prevent this occurring, clean once a month. Blemishes on satin stainless steel may be removed by rubbing with a suitable stainless cleaner/polish wadding polish. Ensure rubbing occurs in the same direction as to the grain itself.

## MAINTENANCE

Cal-Royal Locksets, Exit Devices and Door Closers were designed and manufactured to be maintenance-free under normal operating conditions and environments. Exposure to extremely heavy traffic and/or particularly dusty and dirty environmental conditions, however, may eventually cause unsatisfactory operation due to slow-moving parts or sticking cylinders. In this case, it may be necessary to clean and re-lubricate the lockset to maintain optimum performance.

### Locksets

- To clean the lockset mechanism, use a non-corrosive substance or a penetrating or solvent type lubricant to loosen sticking components, then lubricate with lithium grease, silicone or Teflon based lubricant
- Do not use lubricant in cylinder (oil or aerosol type)

### Cylinders

- When key becomes “sticky” in cylinder, you may sprinkle a small amount of graphite onto the key and then insert the key inside cylinder
- To free sticking or jammed cylinders, lubricate with graphite or a non-oily lubricant (such as Lock-EZE)
- Do not use petroleum-based lubricants in the cylinder keyway. WD-40 or oil will collect dirt over time, and a liquid might even freeze in the lock if weather is cold enough. Graphite is the common choice, the powdered version of molybdenum disulfide would work as well
- Do not use lubricant in cylinder (oil or aerosol type)

## STAINLESS STEEL - CARE & MAINTENANCE GUIDE

Stainless steel is a high class material which guarantees longevity and minimal wear. However, stainless steel does not mean “stain” free. It can weather a lot of corrosive environment, but will inevitably succumb to some form of corrosion, including patch rusts.

The main difference between a stainless steel and carbon steel is the amount of chromium present. Carbon steel rusts immediately when exposed to air and moisture. It may take longer for stainless steel to corrode, but it will definitely do if not properly maintained.

We recommend cleaning with available commercial cleansing agents. Avoid using steel wool, steel brushes or similar accessories when cleaning as these harm the protective surface and extraneous rust may arise from the abrasion.

Some commercial products are also available that provides a non-stick protective coating that seals the surface, allowing for easier cleaning and maintenance like:

- EnduroShield Stainless Steel Coating
- Sprayon Stainless Steel Protective Coating
- ProtectaClear, by Everbrite

NOTE: Cal-Royal does not sell these products.

## ARCHITECTURAL FINISH GUIDE

ITEM NO: **FINCAP**  
INCLUDES 8 PIECES FINISHED CAPS  
**\$13.50** EACH LIST



**US3/605-632**  
POLISHED BRASS



**US5/609-638**  
ANTIQUE BRASS



**US10B/613-640**  
ANTIQUE BRONZE OILED



**US11P**  
VENETIAN BRONZE



**US15/619-646**  
SATIN NICKEL



**US32D/630**  
SATIN STAINLESS STEEL



**US26D/626-652**  
SATIN CHROME



**US26/625-651**  
POLISHED CHROME

### OTHER FINISHES (not included in FINCAP)



**US4/606-633**  
SATIN BRASS



**US10A/614-641**  
ANTIQUE BRONZE LACQUERED



**ELECTRO STATIC**  
POWDER COATED WHITE



**US15A/620-647**  
SATIN NICKEL OXIDIZED



**US10/612-639**  
SATIN BRONZE



**USP/600**  
PRIME COAT



**US14B**  
BRIGHT BLACK NICKEL



**US17A/621-648**  
SATIN BLACK NICKEL





## INDEX TO US FINISHES

B.H.M.A. FINISH STANDARDS BASE MATERIAL				
US	DESCRIPTION	Steel	300 Series Stainless Steel	Brass / Bronze
US1B	Bright Japanned	601	N/A	N/A
US1DM	Dead black-bright brass bearings and tips	N/A	N/A	N/A
US2C	Zinc plated, commercial	602	N/A	N/A
US2CD	Zinc plated, satin	603	N/A	N/A
US2G	Zinc plated, gov, spec.	603	N/A	N/A
US2H	Hot dipped galvanized	N/A	N/A	N/A
US3	Bright brass	632	724	605
US4	Satin brass	633	731	606
US5	Satin brass, oxidized	638	N/A	609
US7	Bright brass, nickel oxidized and highlighted	636	N/A	610
US9	Bright bronze	637	737	611
US9A	Bright bronze, no lacquer	N/A	N/A	N/A
US10	Satin bronze	639	740	612
US10A	Antique bronze lacquered	641	N/A	614
US10B	Antique bronze, oiled	640	743	613
US10BE	Dark Satin Bronze, Equivalent	N/A	N/A	613E
US11P	Venetian bronze	N/A	N/A	N/A
US14	Bright nickel	645	746	618
US14A	Bright nickel, oxidized and highlighted	N/A	N/A	N/A
US14B	Bright black nickel	N/A	N/A	N/A
US15	Satin nickel	646	749	619
US15A	Satin, nickel, nickel oxidized and highlighted	647	N/A	620
US17A	Black nickel dull	648	N/A	621
US1 / US19	Flat Black Coated	631	N/A	622
US20	Statuary bronze, light	649	N/A	623
US20A	Statuary bronze, dark	650	N/A	624
US26	Bright chromium plated	651	N/A	625
US26D	Satin chromium plated	652	N/A	626
US27	Satin aluminum, clear coated	N/A	N/A	N/A
US28	Satin aluminum, clear anodized	N/A	N/A	N/A
US32	Stainless steel metal, bright	N/A	629	N/A
US32D	Stainless steel metal, satin	N/A	630	N/A
313AN	Dark Bronze, Anodized	N/A	N/A	N/A
OC	Antique copper	N/A	N/A	N/A
USP	Prime coat, grey	600	N/A	600
GY	Grey enamel	N/A	N/A	N/A
LS	"Luma Sheen" (R)	689	N/A	689
L1	"Luma Color" (R) black	693	N/A	693
L2	"Luma Color" (R) dark bronze	695	N/A	695
L3	"Luma Color" medium bronze	694	N/A	694
ALUM	Aluminum Painted	689	N/A	689
DURO	Dark Bronze Painted	695	N/A	695
GOLD	Gold Painted	706	N/A	706

## DISPLAY BOARDS AND MOUNTS

Door hardware display board featuring Cal-Royal's best seller items.  
Includes CRP Tri-Pocket Brochure. Ideal for use in Architectural Showrooms.



### DSP-BOARD-77

**INCLUDES ITEMS:** 7700EO36 Exit Device, N900PBF and CR441 Door Closers, Grade 1 and Grade 2 Levers, BB31 Hinge, MDHS-2, HPDL258, NESC7700, CRP TRI-POCKET

**BOARD SIZE:** 42" x 28"

**\$560.00** each list



### DSP-BOARD-98

**INCLUDES ITEMS:** 9800EO36 Exit Device, N900PBF and CR801S Door Closers, Grade 1 and Grade 2 Levers, BB5200 Hinge, MDHS-2, HPDL258, NESC7700, CRP TRI-POCKET

**BOARD SIZE:** 42" x 28"

**\$560.00** each list



### DSP-BOARD-RES

**ITEMS INCLUDED:** Grade 3 Residential Levers and CRP TRI-POCKET

**BOARD SIZE:** 42" x 28"

**\$335.00** each list

## DISPLAY BOARDS AND MOUNTS

Door hardware display board featuring Cal-Royal's best seller items.

Ideal for use in Architectural Showrooms.



### BDH-DSP-BOARD

Black Barn Door Hardware Display Board

**BOARD SIZE:** 24" x 13 5/8"

**\$245.00** each list



### SDH-DSP-BOARD

Stainless Steel Sliding Door Hardware Display Board

**BOARD SIZE:** 24" x 13 5/8"

**\$335.00** each list



DSP-3D51

DSP-3D62

### DSP-3D51

5 1/8" x 1 3/16" 3D Invisible Hinge mounted in US4 and US15 finish

**BOARD SIZE:** 15" x 6" x 1 3/4"

**\$225.00** each list

### DSP-3D62

6 5/8" x 1 3/16" 3D Invisible Hinge mounted in US4 and US15 finish

**BOARD SIZE:** 17 1/2" x 6" x 1 3/4"

**\$225.00** each list



# CAL-ROYAL IS GOING GREEN!



To: Cal-Royal Customers

In our continuing effort to better serve you, our valued customers, we are pleased to announce the implementation of order status and shipping information via email.

## *You can now receive the following information by email:*

- Purchase Order Confirmations
- Tracking Numbers
- Product Specials
- New Product Updates
- Sales Orders
- RMA's
- Invoices
- Monthly Statements

Please print your contact names and their email addresses, and choose which documents you want to receive using the form below.

ACCOUNT#						
COMPANY NAME						
TEL . NO.						
CONTACT NAME	EMAIL ADDRESS	UPS	SALES ORDER	RMA	INVOICE	AR STATEMENT

FAX to 1-800-222-3316 or 1-323-888-6699  
or EMAIL to [customers@cal-royal.com](mailto:customers@cal-royal.com)



# CAL-ROYAL PRODUCTS, INC.

6605 FLOTILLA STREET, CITY OF COMMERCE, CA 90040

TEL: (323) 888-6601 ♦ FAX: (323) 888-6699

(800) 876-9258 ♦ (800) 222-3316



## CREDIT APPLICATION

DATE: \_\_\_\_\_

### Company Name

BILLING ADDRESS \_\_\_\_\_

CITY: \_\_\_\_\_ STATE: \_\_\_\_\_ ZIP: \_\_\_\_\_

### Shipping Address

CITY: \_\_\_\_\_ STATE: \_\_\_\_\_ ZIP: \_\_\_\_\_

This is a ☐ Commercial ☐ Residential address

PHONE: \_\_\_\_\_ FAX: \_\_\_\_\_

Type of Business: \_\_\_\_\_ Years at present location: \_\_\_\_\_

### Type of Organization

☐ Private Corporation ☐ Partnership ☐ Public Corporation  
☐ Individual ☐ Other \_\_\_\_\_

### Email Address

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

### Principals

NAME	POSITION	HOME ADDRESS	PHONE #

### Bank Reference

Bank: \_\_\_\_\_ Account # \_\_\_\_\_

Address: \_\_\_\_\_ Phone # \_\_\_\_\_

### Trade References

(Minimum of 3 With fax #)

NAME	ADDRESS	PHONE #	FAX #

### PERSONAL GUARANTEE

In consideration for the credit extended, the undersigned contracts and guarantees to the faithful payment, when due of all accounts of the company seeking credit for 5 years from the date of this application. The undersigned guarantor expressly waives all notice of acceptance of this guarantee, notice of extension of credit, presentment of demand for payment and any notice of default by the company seeking credit and all other notices the guarantor might be entitled to. Revocation of the guarantee shall be in writing and delivered by certified mail.

### Credit Limit Requested

NEED MONTHLY STATEMENT EMAILED TO YOU? ☐ YES (e-mail address: \_\_\_\_\_) ☐ NO

In making this application for credit, the customer agrees to pay all invoices within 30 days from date of invoice and to pay a service charge of 1.5% per month, which is an annual percentage rate of 18% on all overdue balances. In the event a suit is necessary to collect any amount, the customer agrees the non-prevailing party will reimburse prevailing party for reasonable attorney fees and costs including attorneys fees for appeal.

Signature ►►►

Title: \_\_\_\_\_ Date: \_\_\_\_\_

### ◆◆◆ OFFICE USE ONLY ◆◆◆

Credit limit \$		Account #
Date approved:		CR#
Signature:		Discount:
Reps Signature		Date



## RMA#

MUST BE ON ALL PACKAGES BEING RETURNED.  
SO WE CAN CREDIT YOUR ACCOUNT  
ACCORDINGLY.

### RETURN MERCHANDISE REQUEST FORM

1. Please complete the information requested below, so we can issue your RMA#.
2. All information must be completed (**invoice# or your PO# important to fill out**) or requests for credits and/or returns will not be processed. Incomplete requests will not be processed.
3. When completed please fax back attention customer service to fax you back with RMA #. All returns are subject to restocking fee/re-box fee based upon condition of the material. Active items will be credited in full
4. Upon inspection. The RMA# provided is valid for 30 days only. If material has not been returned within the 30 days period, the RMA will then be void and payment is due.
5. Return products can only be returned within 90 days of invoiced date. No exceptions.

***All boxes must have a copy of this form inside each box and be marked with RMA# issued.***

COMPANY NAME: \_\_\_\_\_ ACCT# \_\_\_\_\_  
CONTACT: \_\_\_\_\_ DATE: \_\_\_\_\_  
☎ PHONE#: \_\_\_\_\_ 📠 FAX#: \_\_\_\_\_

ORDER #	PO#	INVOICE#	ITEM#	QTY	REASON FOR RETURN	OFFICE USE ONLY FOR APPROVAL

# ACTION REQUIRED

☐ RETURN FOR CREDIT

☐ REPLACE

☐ OTHER \_\_\_\_\_

COMMENTS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**PLEASE FAX RMA FORM TO CONFIRM PROCESSING**

CUSTOMER SIGNATURE: \_\_\_\_\_

DATE: \_\_\_\_\_

DATE FAXED: \_\_\_\_\_

**CAL-ROYAL PRODUCTS, INC.**

6605 FLOTILLA STREET CITY OF  
COMMERCE, CA 90040

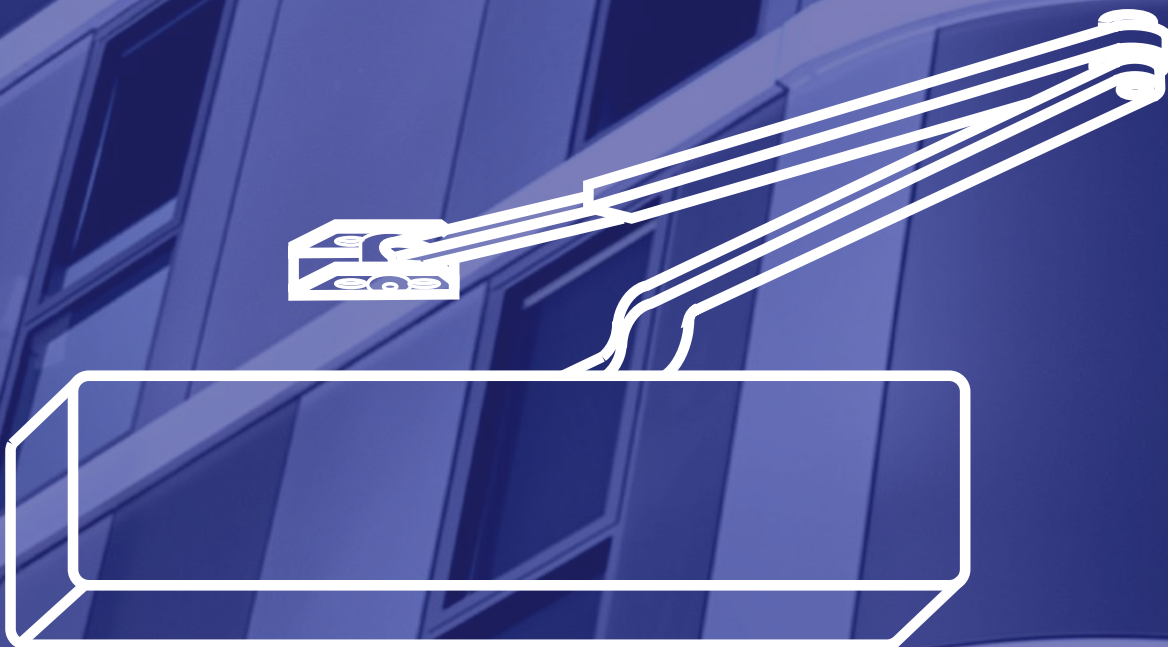
TEL: 323-888-6601 FAX: 323-888-6699

EMAIL: [orders@cal-royal.com](mailto:orders@cal-royal.com)





# DOOR CLOSERS





**CAL-ROYAL**  
PRODUCTS, INC. U.S.A.



# DOOR CLOSERS



**CAL-ROYAL PRODUCTS, INC.**  
6605 Flotilla St., Commerce, CA 90040 U.S.A.  
Tel: (323) 888-6601 Fax: (323) 888-6699  
Website: [www.cal-royal.com](http://www.cal-royal.com) Email: [sales@cal-royal.com](mailto:sales@cal-royal.com)



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900 Series



CR441 Series



CR801 Series



CR801S Series



300 Series



500 Series



700 Series



400 Series

## CAL-ROYAL DOOR CLOSERS PRODUCT COMPARISON

MODEL	GRADE	SIZE	DOOR WEIGHTS (LBS)	FULL COVER	BARRIER FREE	DELAYED ACTION	BACK CHECK	ARM						WARRANTY	MOUNTING			
								HOLD OPEN	REGULAR	PARALLEL	SUPER RIGID	TRACK	TRACK (HOLD-OPEN)		REGULAR ARM (PULL SIDE)	PARALLEL ARM (PUSH SIDE)	TOP JAMB (PUSH SIDE)	
N900PBF	1	1-6	30 - 260	FULL STD	Y	n/a	STD	O	Y	O	O	O	O	LT	Y	Y	Y	
N900PBFDA						STD												
CR441	1	1-6	30-260	FULL STD	Y	n/a	STD	O	Y	O	O	O	O	LT	Y	Y	Y	
CR441 / TNDM			260-520			n/a												
CR441DA			30-260			STD												n/a
CR441DABC						STD												
CR441EHO						n/a		STD										
CR801S	1	1-6	30-260	SLIM STD	Y	n/a	STD	O	Y	O	O	O	O	LT	Y	Y	Y	
CR801SDA				STD														
CR801				FULL STD		n/a												
CR801DA				STD														
300PCOV	1	3-6	85-260	FULL STD	Y	n/a	STD	O	Y	O	n/a	n/a	n/a	LT	Y	Y	Y	
300PBFCOV		1-4	30-185			STD												
300PBFDA						STD												
500PBF	1	1-5	30-260	O	Y	n/a	STD	O	Y	O	n/a	n/a	n/a	LT	Y	Y	Y	
N500PBF				SLIM STD														
*720	1	2	55-100	O	n/a	n/a	n/a	O	Y	O	n/a	n/a	n/a	LT	Y	Y	Y	
*730		3	88-143															
*730BC		4	120-187															n/a
*740																		STD
*740BC																		n/a
*750		5	176-265															n/a
*750BC																		STD
*420-P	2	2	55-100	O	n/a	n/a	n/a	O	Y	O	n/a	n/a	n/a	5 Yrs	Y	Y	Y	
*SM430-P		3	120-187															n/a
*430-P			88-143															STD
*430-PBC																		-
*440-P		4	120-187															

O - Optional | Y - Yes / Available | STD - Standard | LT - Lifetime | FULL - Full cover | SLIM - Slim cover | \*Not BHMA Certified



# REFERENCE & APPLICATION

**CAL-ROYAL**  
PRODUCTS, INC. U.S.A.



**MEETS**  
*The Buy American Act*  
(SPECIFY **MADE IN KOREA** WHEN ORDERING)

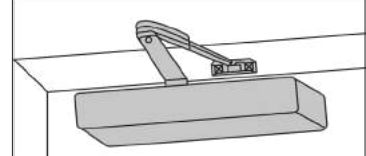
**LIFETIME**  
**WARRANTY**



## APPLICATION

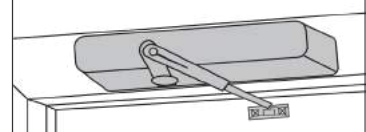
### REGULAR ARM (PULL SIDE)

Regular arm mount is a pull side application with double lever arm. The closer mounts on the door and the arm mounts to the frame. It provides the most efficient operation for a door control and is commonly used on in-swing doors from corridors or other interior doors. Regular arm mount is a poor choice for exterior out-swinging doors as it would put the closer on the exterior of the building. The arm assembly projects directly out from the frame. That may be a concern for vandalism or aesthetics. Regular arm application can be used with non-hold open or hold open arms.



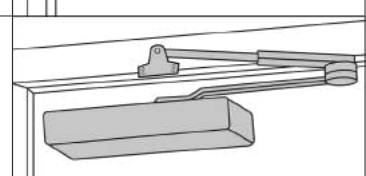
### TOP JAMB (PUSH SIDE)

Top jamb mount is a push side double lever arm application that offers the best alternative to regular arm mount. The closed mounts to the frame and the arm mounts to the door. This application is commonly used on exterior out-swing doors. It is a poor application for in-swinging doors from a corridor as it places the closer arm in a visible application projecting into the corridor. The arm projects out similar to regular arm mount. Therefore, it can be a concern for vandalism or aesthetics. Top jamb application can be used with non-hold open arms.



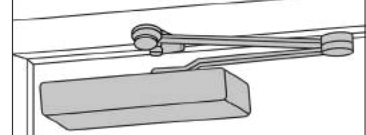
### PARALLEL ARM (PUSH SIDE)

Parallel arm mount is a push side double lever arm application. The closer is installed on the push side of the door and the arm is mounted to a parallel arm adapter plate installed to the frame soffit. The arm is approximately parallel with the face of the door, eliminating the projection condition evident with regular arm and top jamb applications. Parallel arm is often preferred where aesthetics or vandalism are concerns. Parallel arm is less efficient than regular or top jamb mounts due to the geometry of the arm. Parallel arm application can be issued with non-hold open or hold open arms.



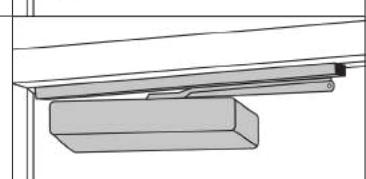
### PARALLEL ARM (PUSH SIDE) WITH STOP ARM

The parallel stop arm mount is an enhanced version of the parallel arm application. It is similar to the parallel arm mount but incorporates a heavy duty rigid arm and soffit plate with limiting dead stop. The dead stop feature is field handed. The closer's back-check function should be adjusted to cushion the impact of the stop. The parallel stop arm is intended for use when an auxiliary stop cannot be utilized. The parallel stop arm is available in non-hold open and hold open applications.



### TRACK ARM

The "Non-Handed" track arm mount incorporates a single forged main arm for installation in high use, high abuse door applications. It's low profile helps prevent damage.



## CAL-ROYAL DOOR CLOSERS CROSS REFERENCES CHART

CAL-ROYAL	CORBIN RUSSWIN	DORMA	DOR-O-MATIC	GLOBAL	HAGER	LCN	NORTON	PDQ	PARKER	SARGENT	TAYMOR	YALE
900 FULL COVER	DC3200	8600FC	SC80FC	TC600	5200	1460FC	8501	5100 / 5500	---	1431	1900	3501
CR441	DC3000 / DC6200	8900	SC70	TC4300	5100	4041	9500	7100	441BC	281 / 350	---	4400
CR801S SLIM COVER	DC3200 X M76	8600	SC80	TC500	5200SLC	1460-72	8301	---	---	1430	---	3301
CR801 FULL COVER	DC3200	8600FC	SC80FC	TC400	5200FC	1460FC	8501	5300	---	1431	---	3501
300	---	640 / 7300 / 7400	---	---	5300	1070 / 1370	1600	3100	900	1130	---	50
500	---	640 / 7300 / 7400	---	---	5300	1070 / 1370	1600	---	900	1130	---	50
700	4600	640	---	TC2200	5400	---	9300	---	500	---	600	2300
400	4600	640	---	TC300	5400	---	9300	---	500	---	500	2300

The data on this chart represents our judgment of which are most similar. Since no two products are exactly alike, it is not guaranteed nor represented that any specific product exactly equals any other product. Door closer body sizes may be different. The information used in this table has been obtained from trade sources.



# 900 SERIES

ANSI A156.4 Grade 1, Full Cover, Multi-Size Full Feature Closer  
UL Listed, Conforms to Standards UL10C and UBC7-2-1997  
BHMA Certified Lifetime Warranty



**MEETS**  
*The Buy American Act*  
(SPECIFY **MADE IN KOREA** WHEN ORDERING)

**LIFETIME**  
**WARRANTY**



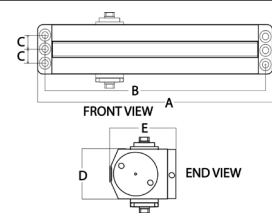
- Cal-Royal's Finest Hydraulic Door Closer Series Meeting the Highest Industry Standards Grade 1
- Heavy-Duty Full Feature Multi-Size Commercial Door Closer for Use In Office Buildings, Shopping Center and Other Commercial Buildings
- Standard Back-Check Function
- Standard Packaging includes Full Plastic Cover with Sex Bolts and Screws. (Metal Optional)
- Optional Plated Decorative Covers are available including 32D
- Optional Adjustable Delayed Action for Handicapped or Elderly



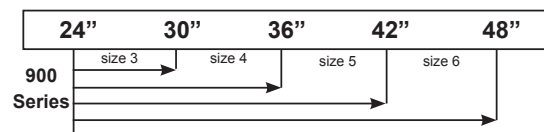
## FEATURES

- Hydraulic Door Closer
- ANSI A156.4 Grade 1: UL Listed for Fire Door Assemblies
- Universal Application. Non-Handed for Standard, Top Jamb or Parallel Arm Installation
- Non-Sized, 1 thru 6 FACTORY PRESET SIZE 3
- Door Weights: 30-260 lbs (All Models)
- Standard Adjustable Back-Check Function
- Adjustable Closing and Latching Speed by Two Separate Regulating Valves
- 6 Attaching Holes for Extra Secure Mounting to Door or Frame
- Available in Alum, Duro, Gold, White, US3, 26, 26D, 10, 15, 10B, 32D, 4 and 5 Finishes
- Optional Adjustable Delayed Action (DA). Preset at the Factory for Approximately 20 Seconds, Between 70° and 0° Delay Time Easily Adjusted Up to 1 Minute
- Barrier Free (BF) Meets ADA regulation. Size 1 thru 6 Engineered with Reduced Spring Power to Provide Easier Opening for Handicapped or Elderly

DESCRIPTION	SIZE
A. Length of Closer Body	11 3/4"
B. Horizontal Mounting Holes	11 1/8"
C. Vertical Mounting Holes	9/16"
D. Height of Closer Body	2"
E. Projection from Door	2 7/8"

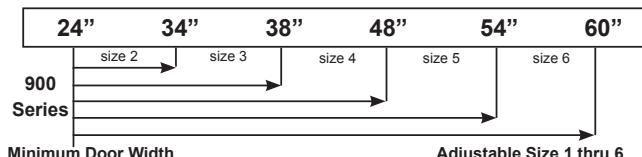


### EXTERIOR (and VESTIBULE) DOOR WIDTH



Minimum Door Width

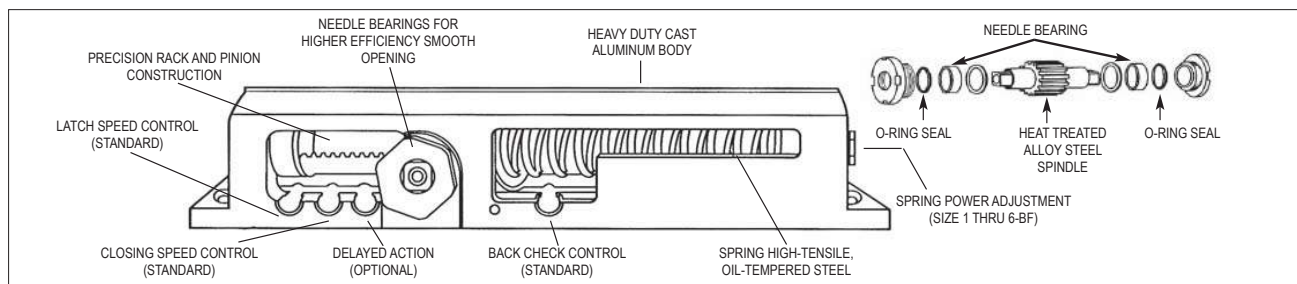
### INTERIOR DOOR WIDTH



Minimum Door Width

Adjustable Size 1 thru 6

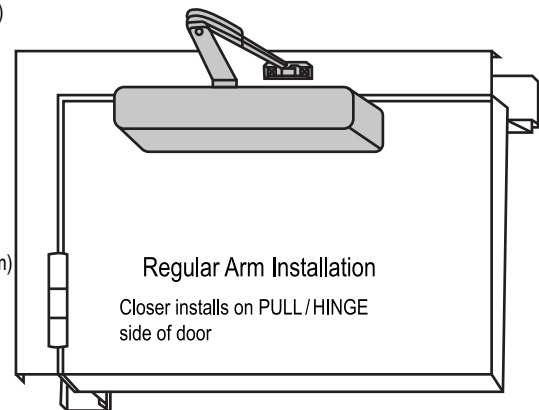
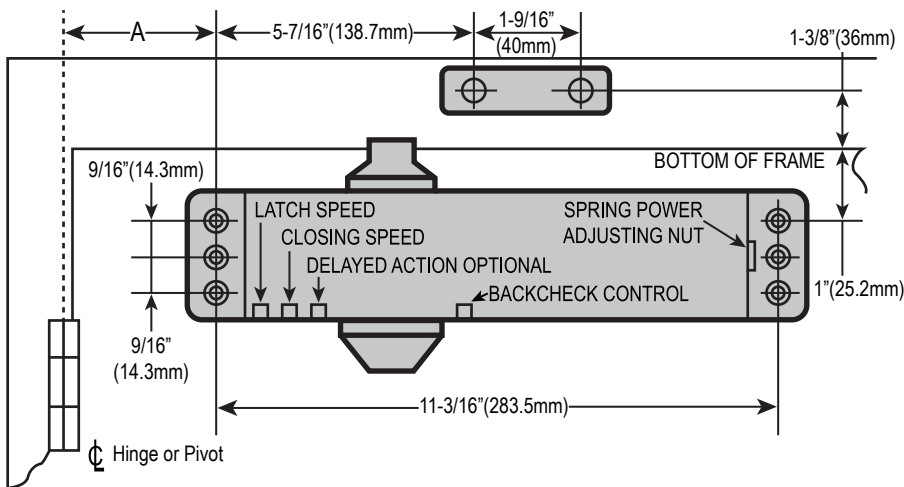
Conforms to Standards UL10C and UBC7-2-1997



# MOUNTING INFORMATION

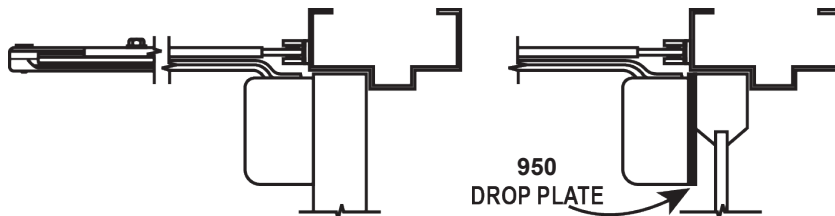
**CAL-ROYAL**  
PRODUCTS, INC. U.S.A.

## 900 SERIES : REGULAR ARM INSTALLATION (PULL SIDE)

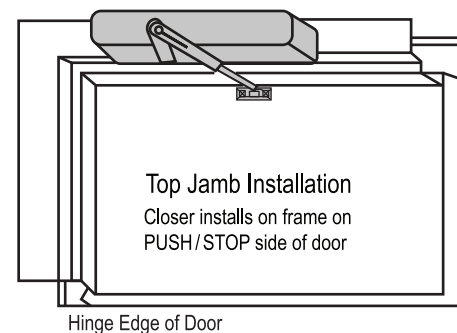
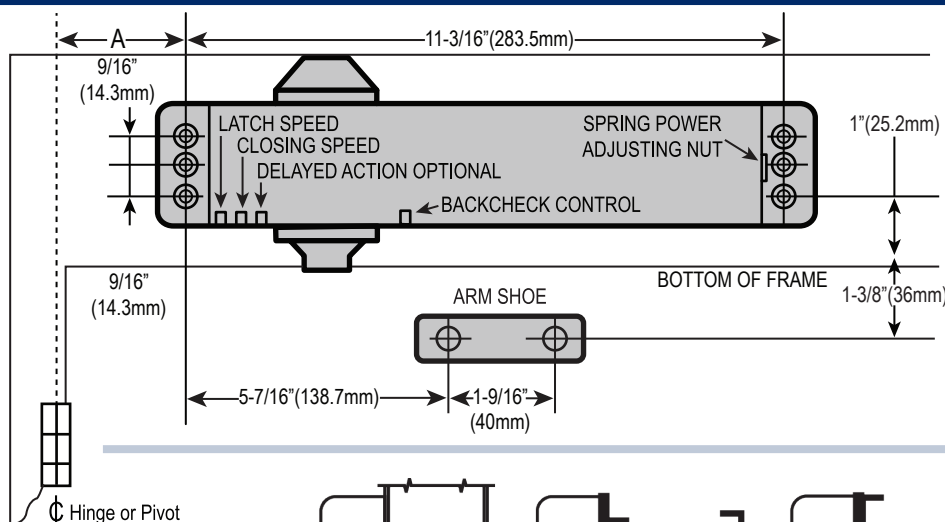


- RIGHT HAND DOOR SHOWN
- LEFT HAND DOOR OPPOSITE
- DIMENSIONS ARE IN INCHES
- DRAWING NOT TO SCALE

OPENING	DIM A
TO 120°	7-3/32 (180mm)
120° - 180°	3-15/16 (100mm)

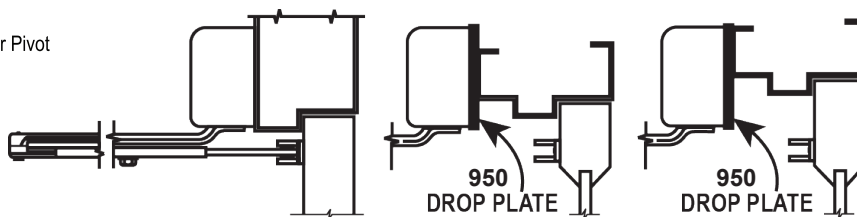


## 900 SERIES: TOP JAMB INSTALLATION (PUSH SIDE)



- LEFT HAND DOOR SHOWN
- RIGHT HAND DOOR OPPOSITE
- DIMENSIONS ARE IN INCHES
- DRAWING NOT TO SCALE

OPENING	DIM A
TO 120°	7-3/32 (180mm)
120° - 180°	3-15/16 (100mm)



**CAL-ROYAL**  
PRODUCTS, INC. U.S.A.

2-3/4" (70mm)

1-5/16" (50mm)

3/8" (10mm)

5/16" (18mm)

7/16" (11mm)

Parallel bracket

FRAME

FRAME

adjustable forearm

9/16" (14.3mm)

3" (76mm)

BACKCHECK CONTROL

DELAYED ACTION (OPTIONAL)

SPRING ADJUSTMENT NUT

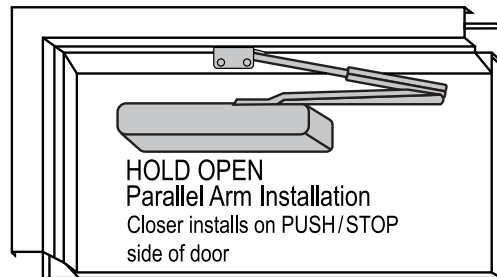
CLOSING SPEED

LATCH SPEED

9/16" (14.3mm)

B

11-3/16" (283.5mm)



OPENING	DIM A	DIM B
TO 120°	9-1/2(241.5 mm)	6-1/8 (156 mm)
120° - 180°	5-7/8 (149.7 mm)	2-9/16 (65 mm)

- 
- 950  
DROP PLATE

950  
DROP PLATE

TRACK ARM

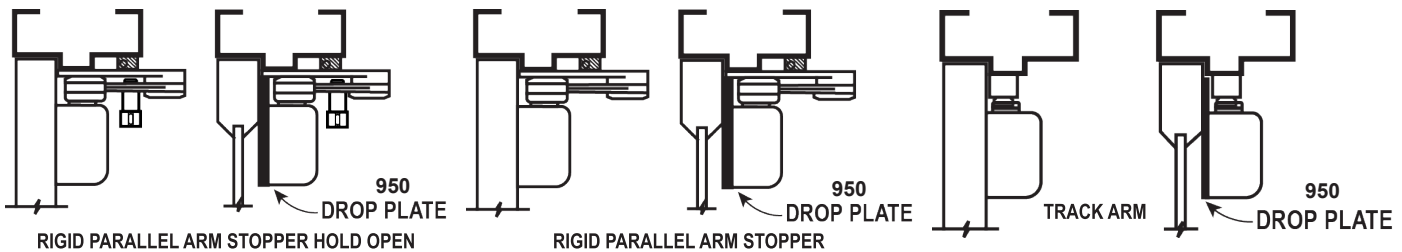
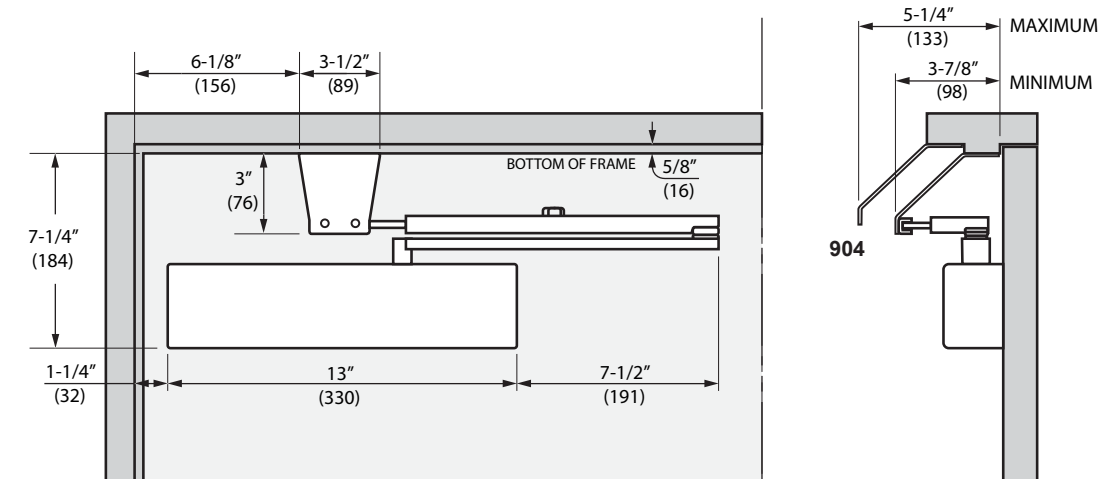
Diagram illustrating the installation of the 950 Drop Plate onto the Track Arm. The diagram shows the drop plate being positioned over the track arm, with the label "950 DROP PLATE" pointing to the plate and "TRACK ARM" pointing to the arm.

- **950** - Flat Drop Plate for Top Rail less than 3 ½"



## 900 SERIES : OPTIONAL INSTALLATION

### PARALLEL ARM (PUSH SIDE)



**MAXIMUM OPENING:** 180° (Standard), 120° (Hold Open)

### OPTIONAL INSTALLATION

#### ARMS

- **900HOSPRING** - Super Rigid Parallel Arm Stopper Hold-Open, Non-Handed with Spring Loaded Stop in Soffit Shoe
- **900SPRING** - Super Rigid Non-Handed Parallel Arm with Spring Loaded Stop in the Soffit Shoe
- **HOSRPS / 900** - Super Rigid Parallel Arm Stopper Hold-Open, Non-Handed with Stop in Soffit Shoe
- **SPAS900** - Super Rigid Parallel Arm Stopper, Non-Handed with Stop in Soffit Shoe
- **901 / 902** - Hold-Open Arm with Parallel Bracket, Non-Handed with Stop in Soffit Shoe
- **900EXT** - Extended Long Arm ( 3" extension ) for Top Jamb with Deep Reveals
- **945AR** - Door Closer Arm (Main and Regular Forearm)
- **TRACK / 900** - Slide Track Arm with Removable Hold-Open

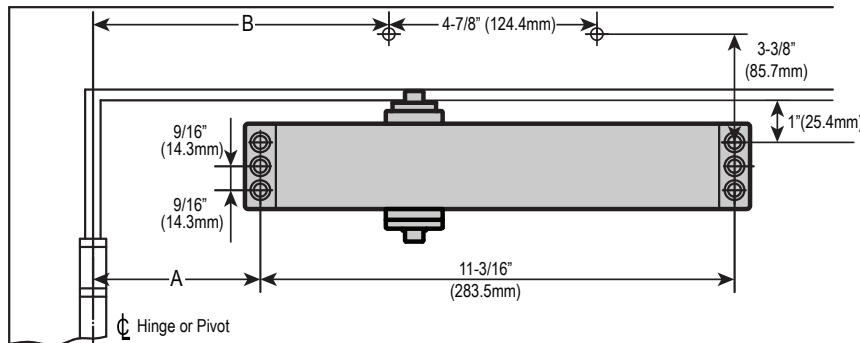
#### BRACKETS

- **904** - Parallel Arm Drop Bracket for Non-Hold Open Parallel Arm Applications to Clear a Surface-Applied Stop / Holder
- **905** - Parallel Arm Bracket
- **950** - Flat Drop Plate for Top Rail less than 3 1/2"

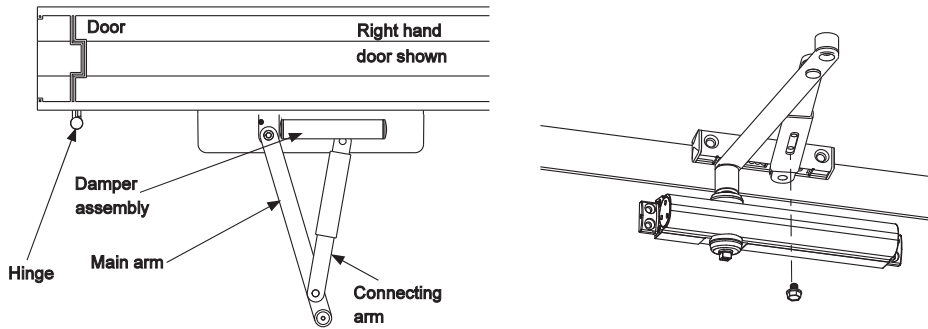
# RHDSA-SS ARM INSTALLATION

## Cushion Heavy Duty Stop Spring Arm with Spring Shoe

### 900 SERIES : REGULAR ARM INSTALLATION (PULL SIDE)

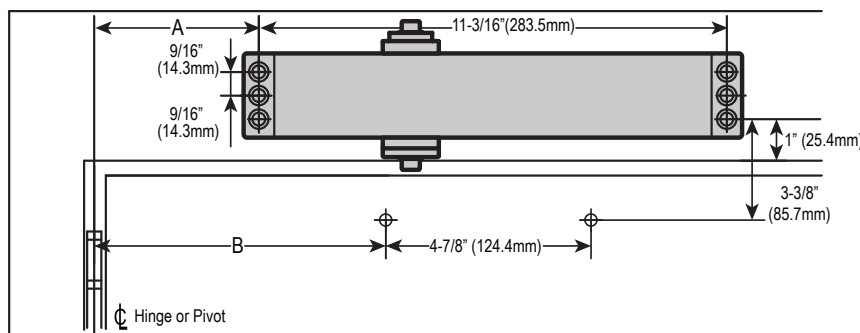


OPENING	DIM A	DIM B
TO 85°	9-3/8" (238.6mm)	12-1/4" (312mm)
TO 90°	8-3/4" (222.6mm)	11-5/8" (296mm)
TO 100°	7-7/8" (200.6mm)	10-13/16" (274mm)
TO 110°	7-1/8" (180.6mm)	10-1/16" (255mm)

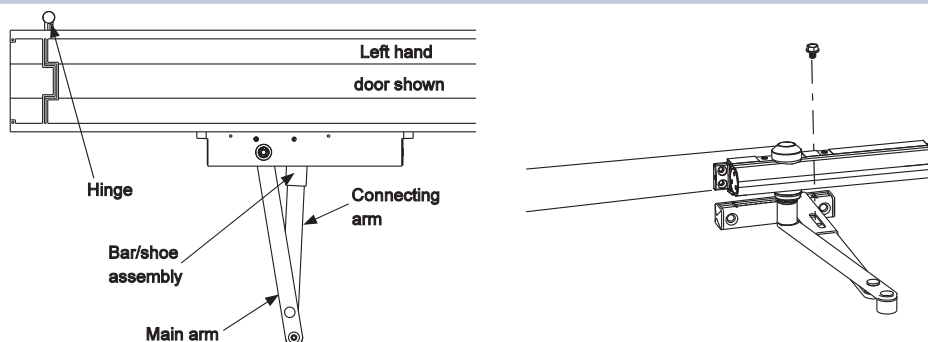


- RIGHT HAND DOOR SHOWN
- LEFT HAND DOOR OPPOSITE
- DIMENSIONS ARE IN INCHES
- DRAWING NOT TO SCALE

### 900 SERIES: TOP JAMB INSTALLATION (PUSH SIDE)



OPENING	DIM A	DIM B
TO 85°	8-5/16" (211mm)	11" (279mm)
TO 90°	8" (203mm)	10-11/16" (271mm)
TO 100°	6-7/8" (175mm)	9-9/16" (243mm)
TO 110°	6-1/4" (159mm)	8-15/16" (227mm)



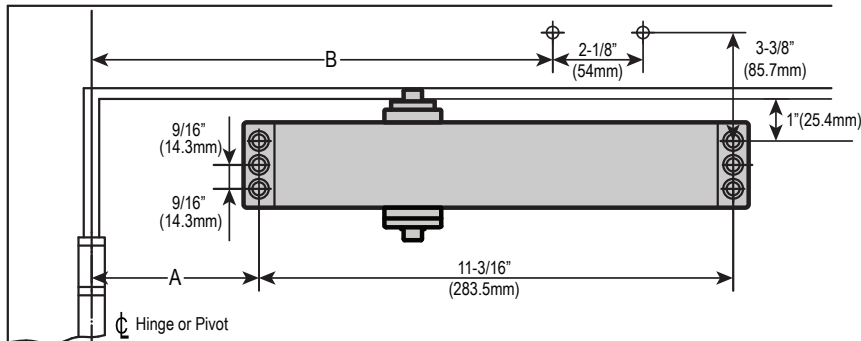
- LEFT HAND DOOR SHOWN
- RIGHT HAND DOOR OPPOSITE
- DIMENSIONS ARE IN INCHES
- DRAWING NOT TO SCALE

# RHDSTP ARM INSTALLATION

**CAL-ROYAL**  
PRODUCTS, INC. U.S.A.

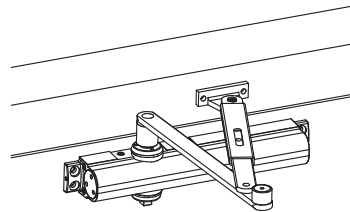
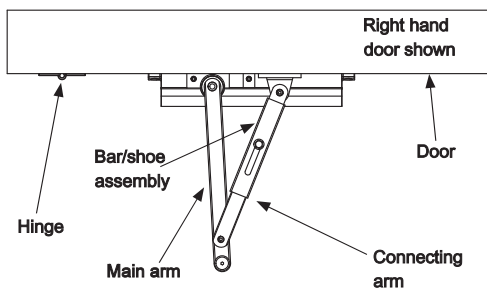
## Cushion Heavy Duty Stop Arm

### 900 SERIES : REGULAR ARM INSTALLATION (PULL SIDE)

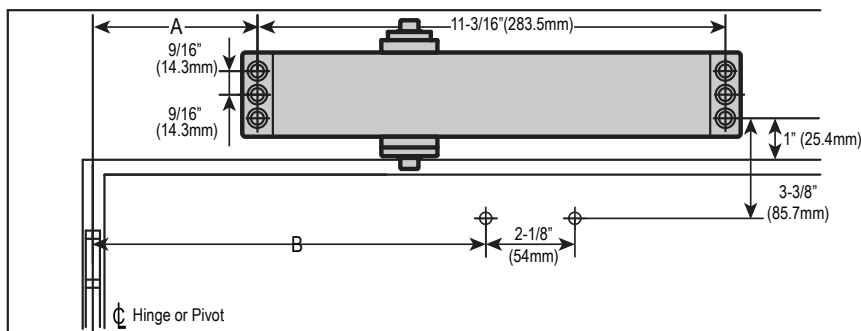


OPENING	DIM A	DIM B
TO 85°	6-1/4" (158.6mm)	14-5/16" (364mm)
TO 90°	5-5/8" (142.6mm)	14" (355mm)
TO 95°	4-13/16" (122.6mm)	13-11/16" (348mm)
TO 100°	5-3/4" (145.6mm)	13-1/16" (332mm)
TO 105°	4-1/4" (107.6mm)	12-3/4" (323mm)
TO 110°	4-1/8" (104.6mm)	12-5/16" (313mm)

- RIGHT HAND DOOR SHOWN
- LEFT HAND DOOR OPPOSITE
- DIMENSIONS ARE IN INCHES
- DRAWING NOT TO SCALE

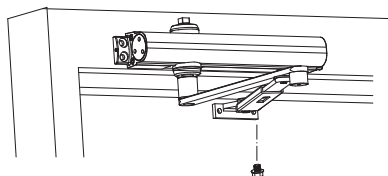
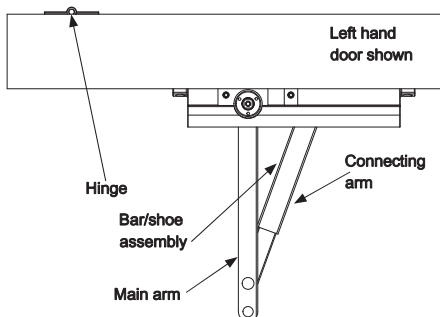


### 900 SERIES: TOP JAMB INSTALLATION (PUSH SIDE)























OPENING	DIM A	DIM B
TO 85°	6-7/8" (174.6mm)	13-3/8" (339mm)
TO 90°	6-1/8" (155.6mm)	12-13/16" (326mm)
TO 95°	5-7/8" (149.6mm)	12-7/16" (316mm)
TO 100°	5-5/8" (142.6mm)	12" (304mm)
TO 105°	5-3/8" (136.6mm)	11-11/16" (297mm)
TO 110°	5-1/8" (129.6mm)	11-7/16" (291mm)

- LEFT HAND DOOR SHOWN
- RIGHT HAND DOOR OPPOSITE
- DIMENSIONS ARE IN INCHES
- DRAWING NOT TO SCALE



# 900 SERIES ACCESSORIES

				
<b>900HOSPRING</b>	<b>900SPRING</b>	<b>HOSRPS / 900</b>	<b>SPAS900</b>	<b>CR900HDAR</b>
<ul style="list-style-type: none"> <li>• Super rigid parallel arm stopper with hold-open</li> <li>• Forged Steel Constructions</li> <li>• Non-handed</li> <li>• Spring loaded stop in soffit shoe</li> <li>• Handle controls hold-open function</li> <li>• Equivalent to <b>LCN SPRING H-CUSH ARM</b></li> </ul>	<ul style="list-style-type: none"> <li>• Super rigid parallel arm stopper</li> <li>• Forged Steel Constructions</li> <li>• Non-handed parallel arm</li> <li>• Spring loaded stop in the soffit shoe</li> <li>• Equivalent to <b>LCN SPRING CUSH ARM</b></li> </ul>	<ul style="list-style-type: none"> <li>• Super rigid parallel arm stopper with hold-open</li> <li>• Forged Steel Constructions</li> <li>• Non-handed with stop in soffit shoe</li> <li>• Handle controls hold-open function</li> <li>• Equivalent to <b>LCN H-CUSH ARM</b></li> </ul>	<ul style="list-style-type: none"> <li>• Super rigid parallel arm stopper</li> <li>• Forged Steel Constructions</li> <li>• Non-handed with stop in soffit shoe</li> <li>• Equivalent to <b>LCN CUSH-N-STOP ARM</b></li> </ul>	<ul style="list-style-type: none"> <li>• Non-handed parallel arm</li> <li>• Forged Steel main arm and forearm</li> <li>• For potentially abusive installations</li> </ul>
				
<b>901 / 902</b>	<b>RHDSA-SS</b>	<b>RHDSTP</b>	<b>945AR</b>	<b>900EXT</b>
<ul style="list-style-type: none"> <li>• Hold-open arm with parallel bracket</li> <li>• Forged Steel Constructions</li> <li>• Non-handed with stop in soffit shoe</li> </ul>	<ul style="list-style-type: none"> <li>• Cushion Heavy Duty Stop Spring Arm with spring shoe</li> <li>• Provides a spring assisted dead stop function for regular and top jamb applications at 85°, 90°, 100°, and 110°.</li> <li>• Non-Handed</li> <li>• 0"-3 1/2" (0-89mm) Reveal</li> <li>• Equivalent to <b>Dorma 8600 Series Spring Stop IS Arm</b></li> </ul>	<ul style="list-style-type: none"> <li>• Cushion Heavy Duty Stop Arm</li> <li>• Provides a cushioned opening function for regular and top jamb applications at 85°, 90°, 95°, 100°, 105°, and 110°.</li> <li>• Non-Handed</li> <li>• 0"-3 1/2" (0-89mm) Reveal</li> <li>• Equivalent to <b>Dorma 8600 Series Cushion IS Arm, and Norton 1600 Series 7701-CA Arm</b></li> </ul>	<ul style="list-style-type: none"> <li>• Forged Steel main and forearm</li> <li>• Non-handed</li> <li>• Door closer arm (Main and regular forearm)</li> </ul>	<ul style="list-style-type: none"> <li>• Extended long arm (3" extension)</li> <li>• Non-handed</li> <li>• For top jamb with deep reveals</li> </ul>
				
<b>TRACK / 900</b>	<b>900COV</b>	<b>900MET</b>	<b>900SMET</b>	<b>904</b>
<ul style="list-style-type: none"> <li>• Slide track arm</li> <li>• With removable hold-open clip</li> <li>• Non-handed</li> </ul>	<ul style="list-style-type: none"> <li>• Full Cover</li> <li>• Non-handed</li> <li>• Plastic material</li> </ul>	<ul style="list-style-type: none"> <li>• Optional full metal cover</li> <li>• Non-Handed</li> <li>• Metal material</li> <li>• Aluminum stock finish</li> </ul>	<ul style="list-style-type: none"> <li>• Slim Cover</li> <li>• Non-Handed</li> <li>• Metal material</li> <li>• US32D Stainless Steel stock finish</li> </ul>	<ul style="list-style-type: none"> <li>• Parallel arm drop bracket</li> <li>• Non-handed</li> <li>• Required for non-hold open parallel arm applications</li> <li>• To clear a surface-applied stop / holder</li> </ul>
				
<b>905</b>	<b>950</b>	<b>970138</b>	<b>970</b>	<b>706</b>
<ul style="list-style-type: none"> <li>• Parallel arm bracket</li> <li>• Non-handed</li> </ul>	<ul style="list-style-type: none"> <li>• Flat drop bracket</li> <li>• Non-handed</li> <li>• Required for hinge mount where top rail is less than 3 1/2"</li> <li>• Plate requires 1 3/4" minimum head frame</li> <li>• Available in powder coat finishes</li> </ul>	<ul style="list-style-type: none"> <li>• Sex bolts for 1 3/8" doors</li> <li>• Female part only</li> <li>• 1/4" - 20 (set of 4)</li> <li>• For Steel Door Application</li> </ul>	<ul style="list-style-type: none"> <li>• Sex bolts</li> <li>• Female part only</li> <li>• 1/4" - 20 (set of 4)</li> <li>• For Steel Door Application</li> </ul>	<ul style="list-style-type: none"> <li>• Thru bolts and grommet nuts</li> <li>• Set of 4</li> <li>• For Wood and Aluminum Door Application</li> </ul>



# CR441 SERIES

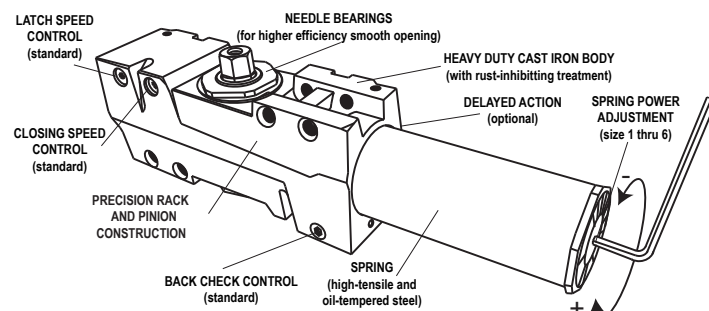
ANSI A156.4 Grade 1, Full Cover Multi-Size, Full Feature Closer  
UL Listed, Conforms to Standards UL10C and UBC7-2-1997  
BHMA Certified Lifetime Warranty



- Cal-Royal's Finest Hydraulic Door Closer Series Meeting the Highest Industry Standards, Grade 1
- Heavy-Duty Double Lever Arm with Extra Smooth Action Full Feature Multi-Size Commercial Door Closer for Use In Office Buildings, Shopping Centers and other Commercial Buildings
- Standard Back-Check Function
- Standard Packaging includes Full Plastic Cover with Sex Bolts and Screws. (Metal Optional)
- Optional Plated Metal Decorative Covers Including 32D
- Optional Adjustable Delayed Action / Barrier Free for Handicapped Or Elderly

## FEATURES

- Universal Application. Non-Handed for Standard, Top Jamb or Parallel Arm Installation
- Non-Sized, 1 thru 6 FACTORY PRESET SIZE 3 Meets ADA
- Door Weights: 30-260 lbs
- Hydraulic Door Closer with Standard Adjustable Back-Check Function
- Adjustable Closing and Latching Speed by Two Separate Regulating Valves
- Optional Adjustable Delayed Action (DA) Preset at the Factory for Approximately 20 Seconds, Between 70° and 0° Delay Time Easily Adjusted up to 1 Minute. **CR441 DA**
- Standard Full Plastic Cover (**CR441COV**)
- Self-Tapping Screws and Closer Gauge for Easy Adjustment is Standard Feature
- Available in Alum, Duro, Gold, US3, 26, 26D, 10B and 32D



## REDUCED OPENING FORCE CR441 DOOR CLOSERS

**IMPORTANT** Any door closer, including those certified by **BHMA** to conform to **ANSI Standard A156.4**, that is chosen, installed and adjusted based on ADA or other reduced opening force requirement may not provide sufficient power to close and latch a door. Location of door could also affect action and efficiency of door closer.

DOOR WIDTH	36"	42"	48"
**8.5 lbs.	CR441	CR441	CR441
**5.0 lbs.	CR441	CR441	CR441

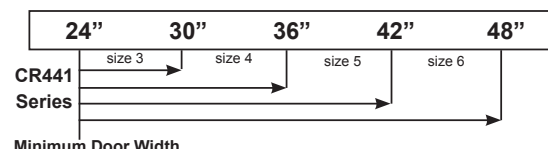
\*\* Maximum Opening Force

## TABLE OF SIZES

Closing power of CR441 closers may be adjusted 50%

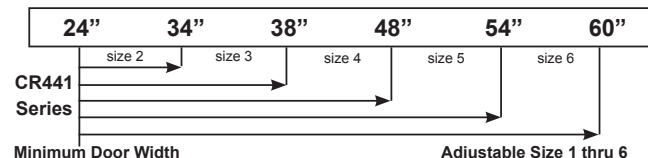
→ Shows recommended range of door width for closer size.

### EXTERIOR (and VESTIBULE) DOOR WIDTH



Minimum Door Width

### INTERIOR DOOR WIDTH

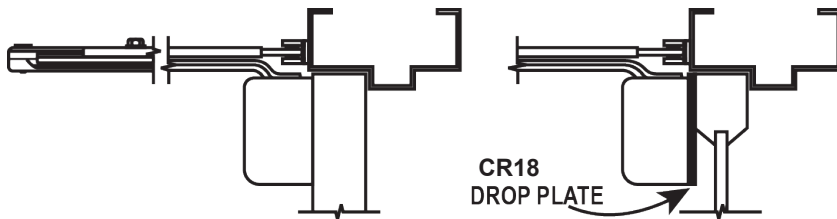
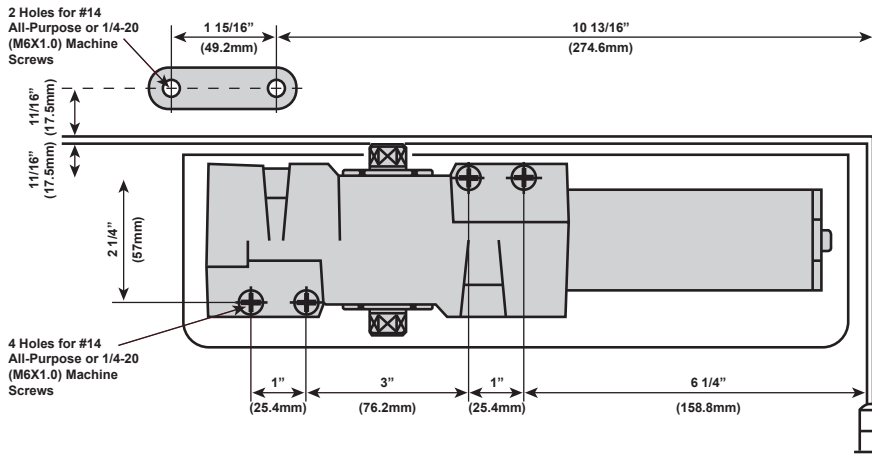


Minimum Door Width

Adjustable Size 1 thru 6

DESCRIPTION	SIZE	
A. Length of Closer Body	11"	
B. Horizontal Mounting Holes	5"	
C. Vertical Mounting Holes	1"	
D. Width of Closer Body	2 3/4"	
E. Projection from Door	2"	

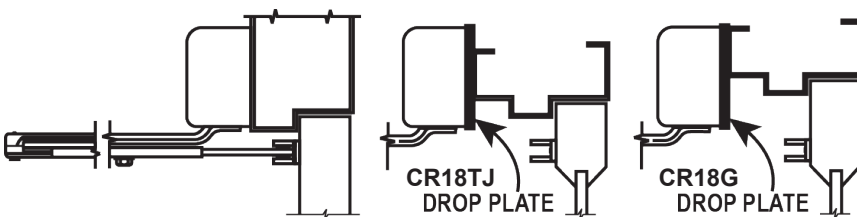
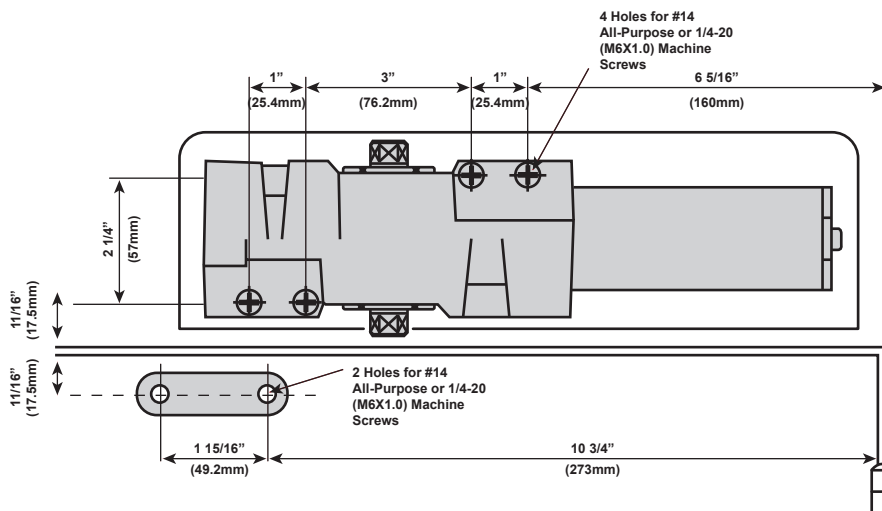
## CR441 SERIES : REGULAR ARM INSTALLATION (PULL SIDE)



- **Butt Hinges** should not exceed 5" (127mm) in width.
- **Auxiliary Stop** is recommended at hold-open point or where a door cannot swing beyond 120°
- **Reveal** should not exceed 3/4" (19mm) for regular arm or hold-open arm.
- **Top Rail** less than 3 3/4" (19mm) requires PLATE, CR18. Plate requires 2" (51mm) minimum.
- **Clearance** of 2 3/8" (60mm) behind door required for 90° installation.
- **Delayed Action** - Delays closing from 120° to 70°. Delay time adjustable up to approximately 1 minute.
- See **Optional Installation** for ARMS and BRACKETS available on the next page.

- **RIGHT HAND DOOR SHOWN**
- **SURFACE MOUNTED**
- **ADJUSTABLE AND PRE-SET BACKSET**
- **NON-HOLD OPEN / HOLD OPEN**

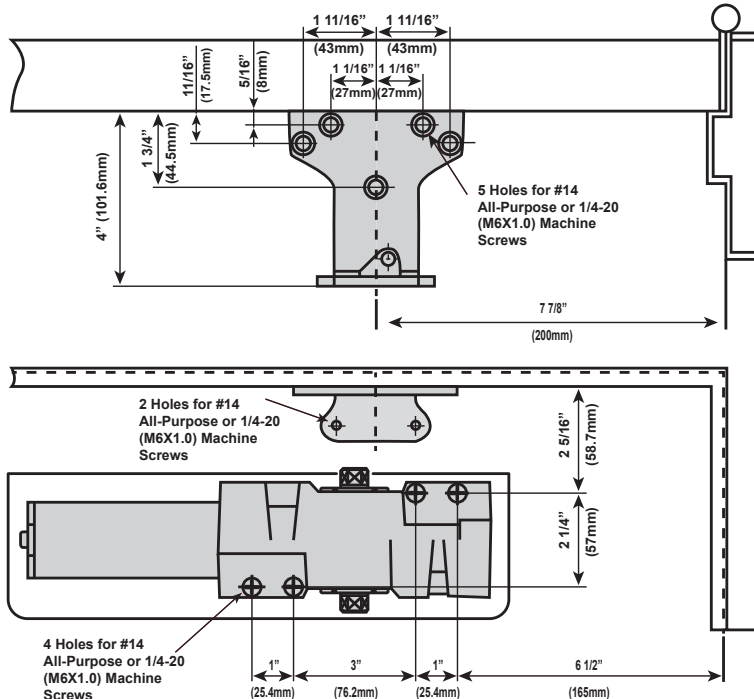
## CR441 SERIES : TOP JAMB INSTALLATION (PUSH SIDE)



- **Butt Hinges** should not exceed 5" (127mm) in width.
- **Auxiliary Stop** is recommended at hold-open point or where a door cannot swing beyond 120°
- **Reveal** of 2 9/16" (65mm) allows 120° opening for regular or standard hold-open arm. 8" (203mm) allows up to 120° opening with CR441EXT.
- **Top Rail** requires 1 1/4" (32mm) minimum. 2 1/4" (57mm) minimum with closer on PLATE, CR18TJ. 3" (76mm) minimum with closer on PLATE, CR18G.
- **Head Frame** less than 3 1/2" (89mm) requires PLATE, CR18TJ. With flush ceiling, use PLATE, CR18G. Either plate requires 1 3/4" (44mm) minimum.
- **Delayed Action** - Delays closing from 120° to 70°. Delay time adjustable up to approximately 1 minute.
- See **Optional Installation** for ARMS and BRACKETS available on the next page.

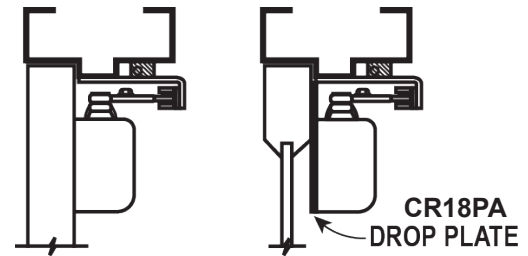
- **LEFT HAND DOOR SHOWN**
- **SURFACE MOUNTED**
- **ADJUSTABLE AND PRE-SET BACKSET**
- **NON-HOLD OPEN / HOLD OPEN**

## CR441 SERIES : PARALLEL ARM INSTALLATION (PUSH SIDE)



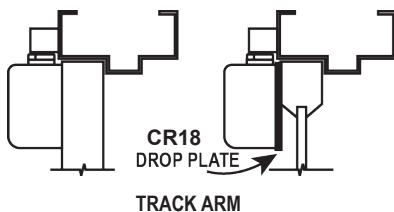
- RIGHT HAND DOOR SHOWN
- SURFACE MOUNTED
- ADJUSTABLE AND PRE-SET BACKSET
- NON-HOLD OPEN / HOLD OPEN

- **Butt Hinges** should not exceed 5" (127mm) in width.
- **Auxiliary Stop** is recommended at hold-open point or where a door cannot swing beyond 180°, or where **CR3077SPAS** arm is not used.
- **Top Rail** less than 5 3/8" (137mm) measured from the stop requires **PLATE, CR18PA**. Plate requires 2" (51mm) minimum from the stop.
- **Stop Width** minimum 1" (25mm). **CUSH** arm requires minimum 1 1/2" (38mm).
- **Delayed Action** - Delays closing from 120° to 70°. Delay time adjustable up to approximately 1 minute.
- See **Optional Installation** for ARMS and BRACKETS available on the next page.

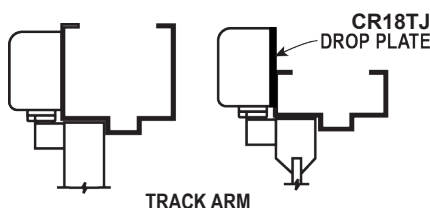


## CR441 SERIES : OPTIONAL INSTALLATION

### REGULAR ARM (PULL SIDE)



### TOP JAMB (PUSH SIDE)



**MAXIMUM OPENING: 180° (Standard), 120° (Hold Open)**

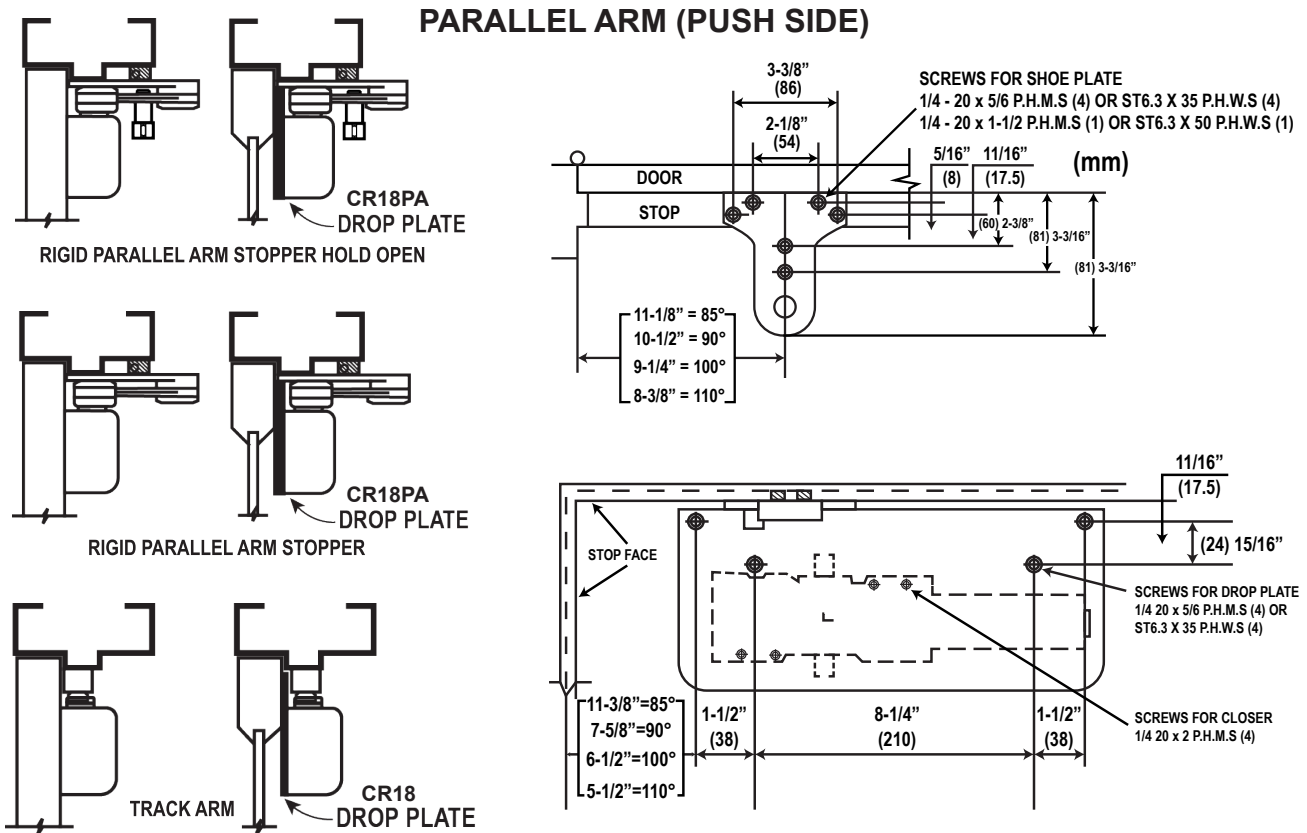
### OPTIONAL INSTALLATION

#### ARMS

- **CR3049HO** - Non-Handed Hold Open Arm with Parallel Bracket
- **CR441ARM** - Door Closer Arm (Main and Regular Forearm)
- **CR441EXT** - Extended Long Arm (3" extension) for Top Jamb with reveals
- **TRACK441** - Slide Track Arm with Hold-Open

- **CR18PA** - Drop Plate for Parallel Arm Mounting Top Rail is less than 5 1/2" Measured from Stop. Plate Requires 2" Minimum Top Rail
- **CR18** - Drop Plate used where Top Rail is less than 3 3/4"
- **CR18TJ** - Drop Plate for Top Jamb where Face is less than 3 1/2"
- **CR18G** - Drop Plate for Top Jamb Mounted Closer Flush with Top of Head Frame Face in Flush Ceiling Condition. Plate Requires 1 3/4" Minimum Head Frame

## CR441 SERIES : OPTIONAL INSTALLATION



**MAXIMUM OPENING: 180° (Standard), 120° (Hold Open)**

### OPTIONAL INSTALLATION ARMS

- **CR3049HO** - Non-Handed Hold Open Arm with Parallel Bracket
- **CR441ARM** - Door Closer Arm (Main and Regular Forearm)
- **CR441EXT** - Extended Long Arm (3" Extension) for Top Jamb with Reveals
- **TRACK441** - Slide Track Arm with Hold-Open
- **CR3049HOSPRING** - Super Rigid Parallel Arm Stopper Hold-Open, Non-Handed with Spring Loaded Stop in Soffit Shoe
- **CR3077SPRING** - Super Rigid Non-Handed Parallel Arm with Spring Loaded Stop in the Soffit Shoe
- **CR3049HOSRPS** - Super Rigid Parallel Arm Stopper Hold-Open, Non-Handed with Stop in Soffit Shoe
- **CR3049SPAS** - Super Rigid Parallel Arm Stopper, Non-Handed with Stop in Soffit Shoe
- **CR3077HDAR** - Non-Handed Parallel Arm Features Forged, Solid Steel Main and Forearm for Potentially Abusive Installations

### BRACKETS

- **CR18PA** - Drop Plate for Parallel Arm Mounting Top Rail is less than 5 1/2" Measured from Stop. Plate Requires 2" Minimum Top Rail
- **CR18** - Drop Plate Used Where Top Rail is less than 3 3/4"
- **CR18TJ** - Drop Plate for Top Jamb where Face is less than 3 1/2"
- **CR18G** - Drop Plate for Top Jamb Mounted Closer Flush with Top of Head Frame Face in Flush Ceiling Condition. Plate Requires 1 3/4" Minimum Head Frame
- **CR441PA** - Parallel Arm Bracket



## CONCR441 - DUAL CLOSER CONNECTOR KIT

### CONCR441KIT

Includes:

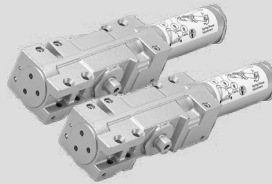
Steel Connector, Sleeve Nut, Steel Mounting Plate,  
Screws and Primary Closer Cover  
(Does not include closers)



### CR441 / TNDM

Includes:

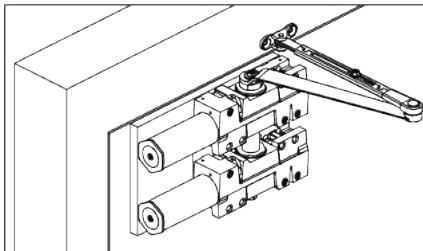
CONCR441KIT,  
2 x CR441 Door Closers  
(Includes 2 complete boxes  
of regular door closers)



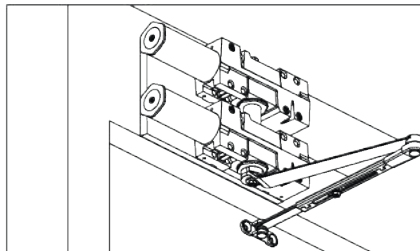
3 HOUR FIRE RATED  
UL10C, UBC7-2-1997



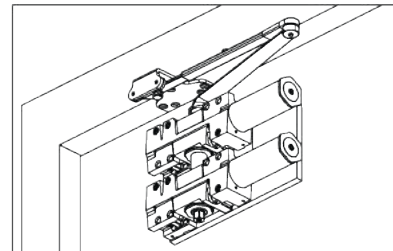
**REGULAR ARM  
(PULL SIDE) MOUNTING**



**TOP JAMB  
(PUSH SIDE) MOUNTING**



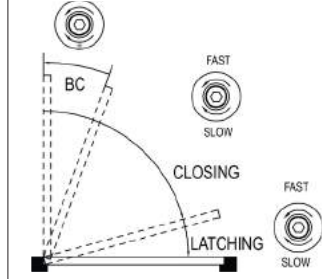
**PARALLEL ARM  
(PUSH SIDE) MOUNTING**



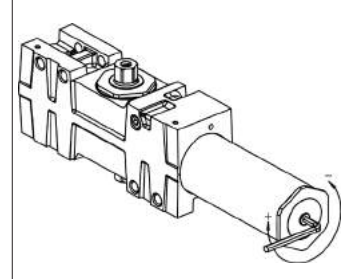
### POWER ADJUSTMENT AND DOOR WIDTH

DOOR MAX WIDTH		ADJUSTING NUT AND TURNS
EXTERIOR	INTERIOR	
-----	5 lb-f	-5 (counter clockwise)
8 lb-f	34" (864)	-2 (counter clockwise)
30" (762)	38" (962)	0
36" (914)	48" (1219)	+5 (clockwise)
42" (1067)	54" (1372)	+10 (clockwise)
48" (1219)	60" (1524)	+15 (clockwise)

### RUNNING AND BC ADJUSTMENT



### POWER ADJUSTMENT



When a single door closer is not strong enough to close a door weighing 260 ~ 520 lbs, the **CONCR441KIT** allows two CR441 Series Grade 1 Door Closers to work as one, by connecting them together with the high-tensile strength steel connector sleeve nut on a steel mounting plate, doubling the strength and the door weight capacity while maintaining the opening force.

### FEATURES

- Connects Two CR441 Series Door Closers
- For Doors 260 ~ 520 lbs Weight
- Can be Used for Regular Arm, Top Jamb or Parallel Arm Mounting
- Easy Mounting
- High Tensile Strength Steel Connector Sleeve Nut
- 12 1/8" x 7" x 3/16" Steel Mounting Plate
- 4" x 1/4" - 20" x 2 1/8" Mounting Screws

### TABLE OF SIZES

Closing power of CR441 closers may be adjusted 50%

→ Shows recommended range of door width for closer size.

#### EXTERIOR (and VESTIBULE) DOOR WIDTH

	24"	30"	36"	42"	48"
CR441 Series	size 3	size 4	size 5	size 6	

Minimum Door Width

#### INTERIOR DOOR WIDTH

	24"	34"	38"	48"	54"	60"
CR441 Series	size 2	size 3	size 4	size 5	size 6	

Minimum Door Width

Adjustable Size 1 thru 6

## CR441EHO - CR441 WITH ELECTRONIC HOLD-OPEN TRACK

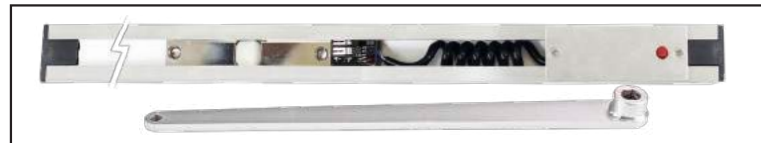
### DOOR CLOSER BODY FEATURES

- Full Cover Multi-size
- Full Feature Closer
- ANSI A156.4 Grade 1
- UL Listed, Conforms to Standards
- UL10C and UBC7-2-1997
- BHMA Certified Lifetime Warranty
- Electronic Hold-Open Track



### CR441 EHO FEATURES

- Heavy Duty Electronic Closer / Holder Track for CR441 Door Closers
- Designed for Single Point Hold-Open for Fire and Smoke Barrier Doors
- Designed to Hold Doors Open in Normal Use and Close Under Fire Conditions
- Adjustable Hold-Open Force
- Functions as a Full Rack and Pinion Closer when Hold-Open is Not Engaged or Current is Interrupted
- Door Opening can be Adjusted on the Track Arm
- Concealed or Surface Wiring
- Interfaces with Alarm Systems
- Mounts on Either Head Frame or Stop
- Non-Handed
- Non-Sized
- 24V AC / DC Input for Holding Solenoid
- Includes Test Switch for Integrity Cycle Test



The **CR441EHO** is a Grade 1 heavy duty door closer with electrically controlled hold-open track arm. It is designed to provide adjustable hold-open for fire and smoke barrier doors.

Door is held open until current interruption releases mechanism and the door closes. It can also be interfaced to any alarm systems and has a built-in switch for integrity cycle testing.

Single lever (track) arm closer is specifically designed for interior doors.

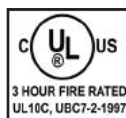
The **CR441EHO** series door closer body is UL & cUL listed for smoke barrier or labeled fire doors. Tested and certified under ANSI Standard A156.15. Conforms to life safety code, NFPA 101. **BHMA** Certified Lifetime Warranty.

## CR271PC - CR441 POCKET DOOR CLOSER APPLICATION

### FEATURES

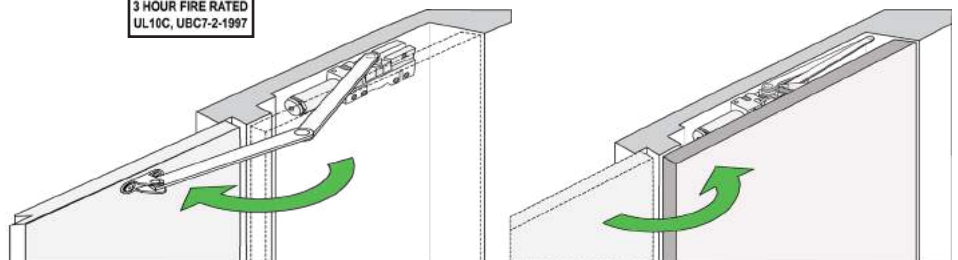
- Cal-Royal's **EXTRA POWERFUL** Hydraulic Door Closer Series
- Meeting The Highest Industry Standards
- ANSI A156.4, Grade 1, UL and cUL Listed
- Cast Iron, Non-Handed
- **High Performance Hydraulic Fluid**
- **Higher Tensioned Steel Spring**
- **High-Demand Performance Applications**
- **Heavy Duty Double Lever Forged Steel Arm** with Extra Smooth Action

**CR271PC** is the CR441 Series' Pocket Door Closer. It is the same CR441 (cylinder) body specially re-engineered for pocket door closer applications. It uses a higher tensioned steel spring, combined with a high-performance hydraulic fluid to withstand high-demand performance applications. Due to the higher force required to open the door 180 degrees, a heavy duty lever forged steel arm was designed 1" longer than the standard CR441 arm for an extra smooth action.















✓ For **180 DEGREES** opening in a **Pocket Door ONLY** Application

✗ **NOT FOR USE** with conventional hinges or latching hardware



# CR441 SERIES ACCESSORIES

**CAL-ROYAL**  
PRODUCTS, INC. U.S.A.

		
<b>3049HOSPRING</b>	<b>CR3077SPRING</b>	<b>CR3049HOSRPS</b>
<ul style="list-style-type: none"> <li>• Super rigid parallel arm stopper with hold-open</li> <li>• Forged Steel Constructions</li> <li>• Non-handed</li> <li>• Spring loaded stop in soffit shoe</li> <li>• Handle controls hold-open function</li> <li>• Equivalent to <b>LCN SPRING H-CUSH ARM</b></li> </ul>	<ul style="list-style-type: none"> <li>• Super rigid parallel arm stopper</li> <li>• Forged Steel Constructions</li> <li>• Non-handed parallel arm</li> <li>• Spring loaded stop in soffit shoe</li> <li>• Equivalent to <b>LCN SPRING CUSH ARM</b></li> </ul>	<ul style="list-style-type: none"> <li>• Super rigid parallel arm stopper with hold-open</li> <li>• Forged Steel Constructions</li> <li>• Non-handed with stop in soffit shoe</li> <li>• Handle controls hold-open function</li> <li>• Equivalent to <b>LCN H-CUSH ARM</b></li> </ul>
		
<b>CR3077SPAS</b>	<b>CR3049HO</b>	<b>CR3077HDAR</b>
<ul style="list-style-type: none"> <li>• Super rigid parallel arm stopper</li> <li>• Forged Steel Constructions</li> <li>• Non-handed with stop in soffit shoe</li> <li>• Equivalent to <b>LCN CUSH-N-STOP ARM</b></li> </ul>	<ul style="list-style-type: none"> <li>• Hold-open arm with parallel bracket</li> <li>• Forged Steel Constructions</li> <li>• Non-handed with stop in soffit shoe</li> </ul>	<ul style="list-style-type: none"> <li>• Non-handed parallel arm</li> <li>• Forged Steel main arm and forearm</li> <li>• For potentially abusive installations</li> </ul>
		
<b>CR441ARM</b>	<b>CR441EXT</b>	<b>TRACK441</b>
<ul style="list-style-type: none"> <li>• Forged Steel main arm and forearm</li> <li>• Non-handed</li> <li>• Door closer arm (Main and regular forearm)</li> </ul>	<ul style="list-style-type: none"> <li>• Extended long arm (3" extension)</li> <li>• Non-handed</li> <li>• For top jamb with deep reveals</li> </ul>	<ul style="list-style-type: none"> <li>• Slide track arm</li> <li>• With removable hold-open clip</li> <li>• Non-handed</li> </ul>
		
<b>CONCR441KIT</b>	<b>CR441 / TNDM</b>	<b>CR441EHO</b>
<ul style="list-style-type: none"> <li>• CR441 Tandem Connector Sleeve Nut</li> <li>• Mounting Plate</li> <li>• Master Cover</li> <li>• Universal use for regular arm, top jamb, or parallel arm mounting</li> </ul>	<ul style="list-style-type: none"> <li>• 1 each CONCR441KIT</li> <li>• 2 each of CR441 door closers</li> <li>• Universal use for regular arm, top jamb, or parallel arm mounting</li> </ul>	<ul style="list-style-type: none"> <li>• Electronic Hold Open Arm with door closer</li> <li>• Mounts on either head frame or stop</li> <li>• Non-handed</li> <li>• Non-sized</li> <li>• 24V AC / DC input for holding solenoid</li> </ul>

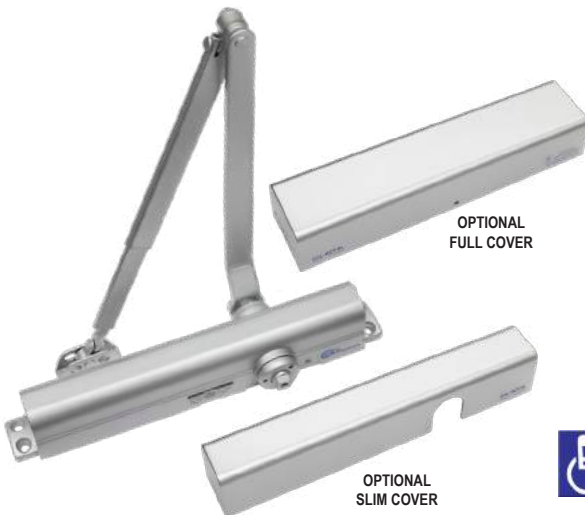
# CR441 SERIES ACCESSORIES

					
<b>CR18PA</b>		<b>CR18</b>		<b>CR18TJ</b>	
<ul style="list-style-type: none"> <li>• Drop plate for parallel arm where mounting and top rail is less than 5 1/2" measured from stop</li> <li>• Plate requires 2" minimum top rail</li> <li>• Non-handed</li> </ul>		<ul style="list-style-type: none"> <li>• Drop plate used where top rail is less than 3 3/4"</li> <li>• Non-handed</li> </ul>		<ul style="list-style-type: none"> <li>• Drop plate for top jamb where face is less than 3 1/2"</li> <li>• Non-handed</li> </ul>	
					
<b>CR18G</b>		<b>CR441PA</b>		<b>CRWRENCH</b>	
<ul style="list-style-type: none"> <li>• Drop plate for top jamb mounted closer flush with top of head frame face in flush ceiling condition</li> <li>• Plate requires 1 3/4" minimum head frame</li> <li>• Non-handed</li> </ul>		<ul style="list-style-type: none"> <li>• Parallel Arm Bracket</li> </ul>		<ul style="list-style-type: none"> <li>• Variable-sized hexagonal wrench for CR3049HO Arm</li> </ul>	
					
<b>CR441COV</b>		<b>CR441COV US32D</b>		<b>CR441COVMET28</b>	
<ul style="list-style-type: none"> <li>• Plastic material cover</li> <li>• Non-handed</li> </ul>		<ul style="list-style-type: none"> <li>• Stainless Steel material cover</li> <li>• Non-handed</li> </ul>		<ul style="list-style-type: none"> <li>• Steel material cover</li> <li>• Non-handed</li> <li>• Aluminum stock finish</li> </ul>	
					
<b>CUSSS-61</b>	<b>BLASS-30</b>	<b>970138</b>	<b>970</b>	<b>706</b>	
<b>CUSH Shoe Support</b> <ul style="list-style-type: none"> <li>• Provide anchorage for fifth screw used with CUSH arms where reveal is less than 3-1/16" (78 mm)</li> </ul>	<b>Blade Stop Spacer</b> <ul style="list-style-type: none"> <li>• Lower parallel arm shoe to clear 1/2" (13 mm) blade stop</li> </ul>	<ul style="list-style-type: none"> <li>• Sex bolts for 1 3/8" doors</li> <li>• Female part only</li> <li>• 1/4" – 20 (set of 4)</li> <li>• For Steel Door Application</li> </ul>	<ul style="list-style-type: none"> <li>• Sex bolts</li> <li>• Female part only</li> <li>• 1/4" – 20 (set of 4)</li> <li>• For Steel Door Application</li> </ul>	<ul style="list-style-type: none"> <li>• Thru bolts and grommet nuts</li> <li>• Set of 4</li> <li>• For Wood and Aluminum Door Application</li> </ul>	



# CR801 / CR801S SERIES

ANSI A156.4 Grade 1, Slim / Full Cover Multi-Size, Full Feature Closer  
UL Listed, Conforms to Standards UL10C and UBC7-2-1997  
BHMA Certified Lifetime Warranty



- Cal-Royal's Finest Hydraulic Door Closer Series Meeting the Highest Industry Standards, Grade 1
- Heavy-Duty Double Lever Arm with Extra Smooth Action Full Feature Multi-Size Commercial Door Closer for Use In Office Buildings, Shopping Centers and Other Commercial Buildings
- Standard Back-Check Function
- Optional Slim / Full Plastic Cover
- Optional Adjustable Delayed Action / Barrier Free For Handicapped Or Elderly

## FEATURES

- Hydraulic Door Closer with Standard Adjustable Back-Check Function
- ANSI A156.4 Grade 1: UL Listed for Fire Door Assemblies
- Universal Application. Non-Handed for Standard, Top Jamb or Parallel Arm Installation
- Non-Sized, 1 thru 6 FACTORY PRESET SIZE 3
- Door Weights: 30-260 lbs (All Models)
- Standard Adjustable Back-Check Function
- Adjustable Closing and Latching Speed by Two Separate Regulating Valves
- Standard Full Plastic Cover with sex bolts and screws (CR801)
- Standard Slim Plastic Cover with sex bolts and screws (CR801S)
- Available in Alum, Duro, Gold
- Optional Adjustable Delayed Action (DA). Preset at the factory for Approximately 20 Seconds, Between 70° and 0°. Delay time easily adjusted Up to 1 Minute.
- Barrier Free (BF) Meets ADA regulation. Size 1 thru 6 Engineered with Reduced Spring Power to provide easier opening for Handicapped or Elderly

## TABLE OF SIZES

Closing power of closers may be adjusted 50%

→ Shows recommended range of door width for closer size.

### EXTERIOR (and VESTIBULE) DOOR WIDTH

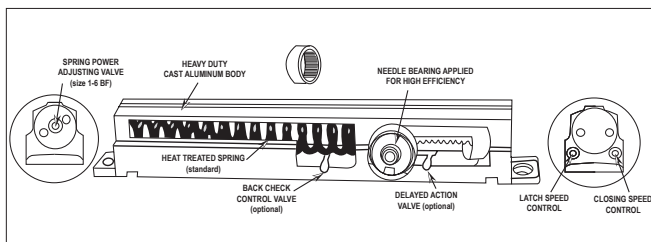
	24"	30"	36"	42"	48"
CR801S/ CR801 Series	size 3	size 4	size 5	size 6	
Minimum Door Width					

### INTERIOR DOOR WIDTH

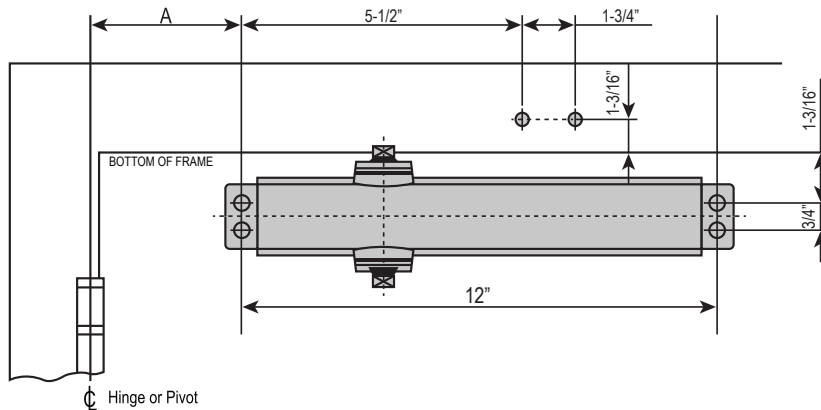
	24"	34"	38"	48"	54"	60"
CR801S/ CR801 Series	size 2	size 3	size 4	size 5	size 6	
Minimum Door Width						
Adjustable Size 1 thru 6						

### Replacement Hole Pattern Same As Norton 8301 / 8501 and Yale 3301 / 3501

DESCRIPTION	SIZE	
A. Length of Closer Body	12 3/4"	
B. Horizontal Mounting Holes	12"	
C. Vertical Mounting Holes	3/4"	
D. Height of Closer Body	1 13/16"	
E. Projection from Door	2 1/8"	

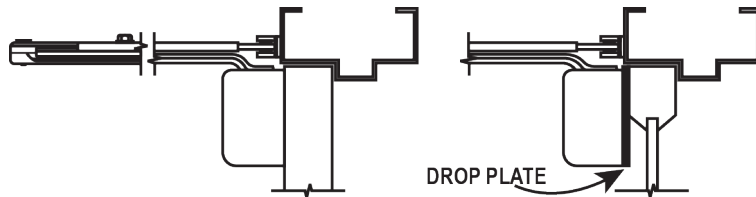


## CR801 / 801S SERIES : REGULAR ARM INSTALLATION (PULL SIDE)

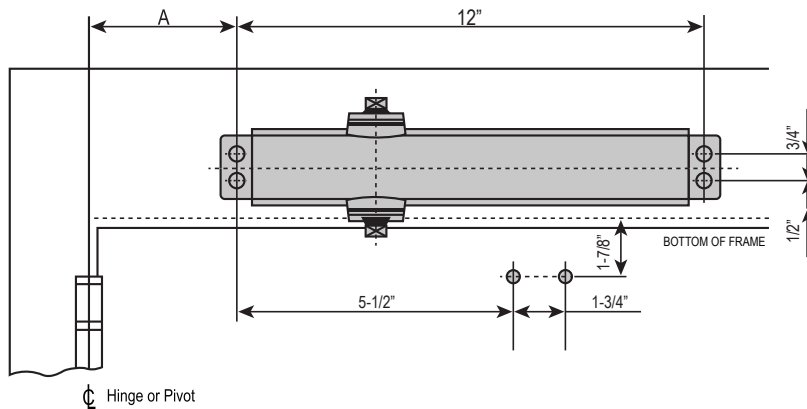


- RIGHT HAND DOOR SHOWN
- LEFT HAND DOOR OPPOSITE
- DIMENSIONS ARE IN INCHES
- DRAWING NOT TO SCALE

OPENING	DIM A
TO 100°	7-1/2" (190.5mm)
TO 130°	6" (152.4mm)
TO 180°	4-1/2" (114.3mm)

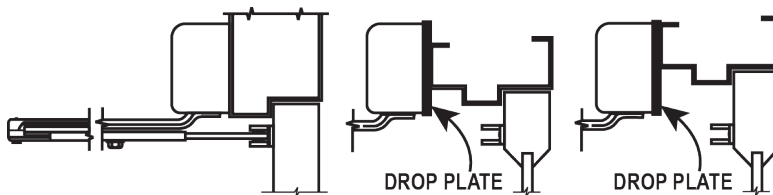


## CR801 / 801S SERIES : TOP JAMB INSTALLATION (PUSH SIDE)

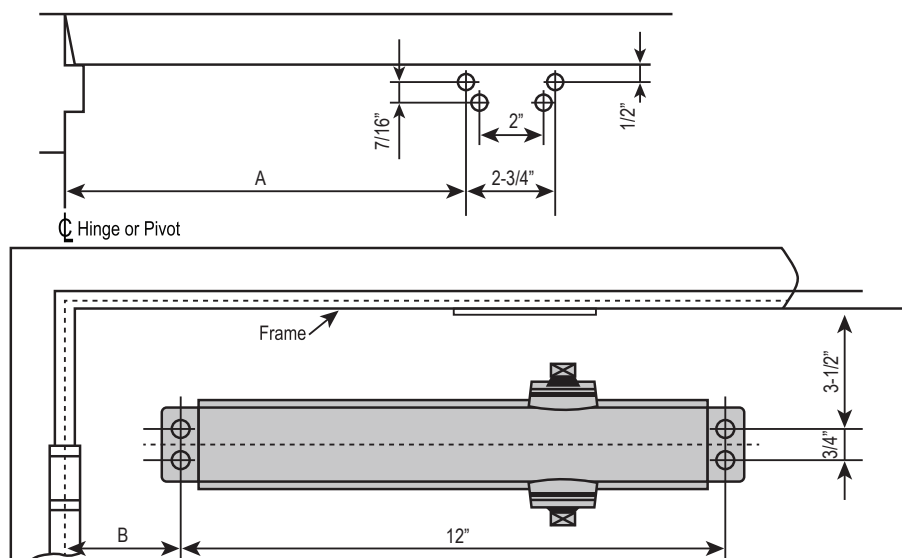


- RIGHT HAND DOOR SHOWN
- LEFT HAND DOOR OPPOSITE
- DIMENSIONS ARE IN INCHES
- DRAWING NOT TO SCALE

OPENING	DIM A
TO 100°	7-1/2" (190.5mm)
TO 130°	6" (152.4mm)
TO 180°	4-1/2" (114.3mm)

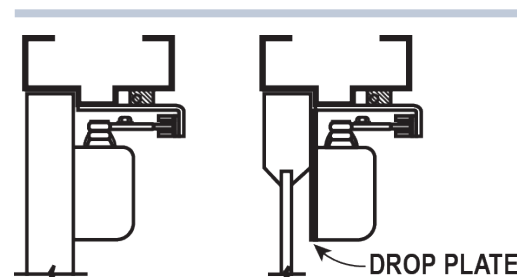


## CR801 / 801S SERIES : PARALLEL ARM INSTALLATION (PUSH SIDE)



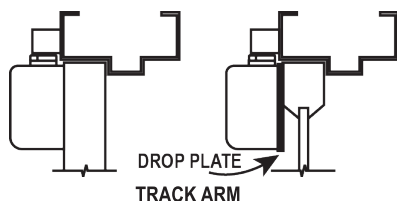
OPENING	DIM A	DIM B
TO 120°	9-1/2" (241.3mm)	3-3/4" (95.25mm)
TO 180°	7" (177.8mm)	1-1/4" (31.75mm)

- LEFT HAND DOOR SHOWN
- RIGHT HAND DOOR OPPOSITE
- DIMENSIONS ARE IN INCHES
- DRAWING NOT TO SCALE

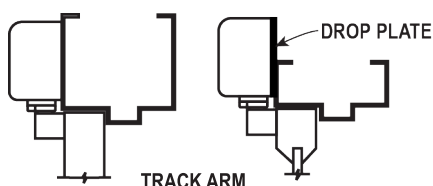


## CR801 / 801S SERIES : OPTIONAL INSTALLATION

### REGULAR ARM (PULL SIDE)



### TOP JAMB (PUSH SIDE)



**MAXIMUM OPENING:** 180° (Standard), 120° (Hold Open)

### OPTIONAL INSTALLATION

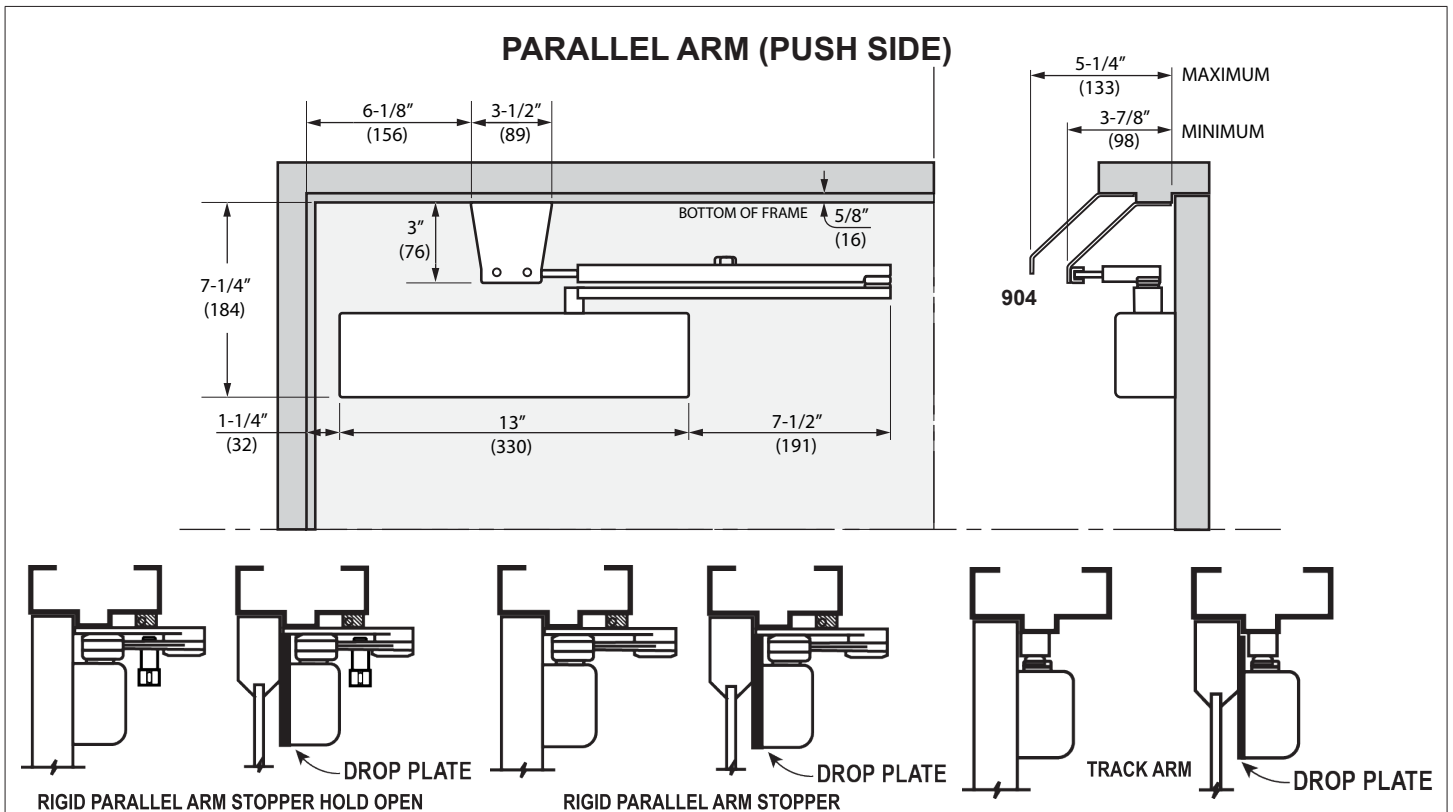
#### ARMS

- 901 / 902 - Hold-Open Arm with Parallel Bracket, Non-Handed with Stop in Soffit Shoe
- 900EXT - Extended Long Arm ( 3" Extension ) for Top Jamb with Deep Reveals
- 945AR - Door Closer Arm (Main and Regular Forearm)
- TRACK / 900 - Slide Track Arm with Removable Hold-Open

#### BRACKETS

- 850S - Slim Flat Drop Plate
- 850W - Wide Flat Drop Plate
- 850F - Full Flat Drop Plate

## CR801 / 801S SERIES : OPTIONAL INSTALLATION



**MAXIMUM OPENING:** 180° (Standard), 120° (Hold Open)

### OPTIONAL INSTALLATION

#### ARMS

- **900HOSPRING** - Super Rigid Parallel Arm Stopper Hold-Open, Non-Handed with Spring Loaded Stop in Soffit Shoe
- **900SPRING** - Super Rigid Non-Handed Parallel Arm with Spring Loaded Stop in the Soffit Shoe
- **HOSRPS / 900** - Super Rigid Parallel Arm Stopper Hold-Open, Non-Handed with Stop in Soffit Shoe
- **SPAS900** - Super Rigid Parallel Arm Stopper, Non-Handed with Stop in Soffit Shoe
- **901 / 902** - Hold-Open Arm with Parallel Bracket, Non-Handed with Stop in Soffit Shoe
- **900EXT** - Extended Long Arm (3" Extension) for Top Jamb with Deep Reveals
- **945AR** - Door Closer Arm (Main and Regular Forearm)
- **TRACK / 900** - Slide Track Arm with Removable Hold-Open

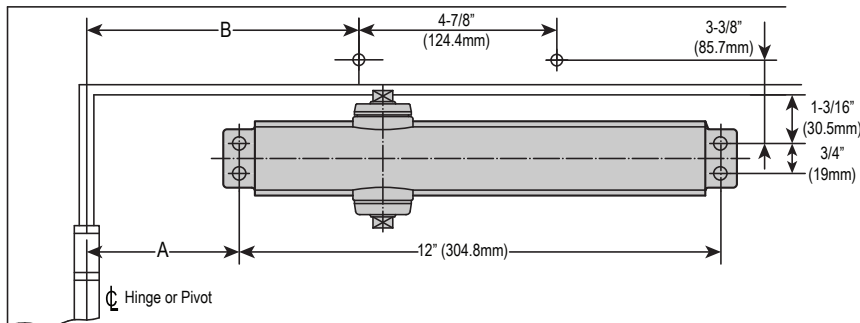
#### BRACKETS

- **904** - Parallel Arm Drop Bracket for Non-Hold Open Parallel Arm Applications to Clear a Surface-Applied Stop / Holder
- **905** - Parallel Arm Bracket
- **850S** - Slim Flat Drop Plate
- **850W** - Wide Flat Drop Plate
- **850F** - Full Flat Drop Plate

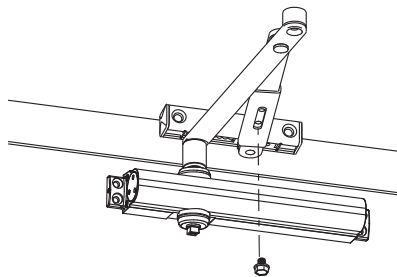
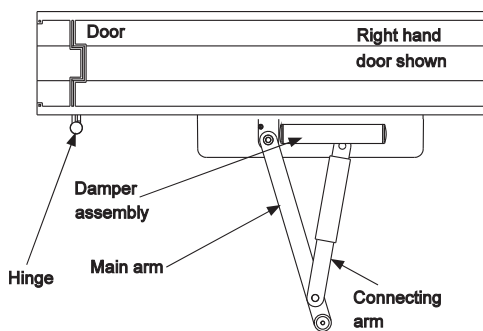


## Cushion Heavy Duty Stop Spring Arm with Spring Shoe

### CR801 / 801S SERIES : REGULAR ARM INSTALLATION (PULL SIDE)

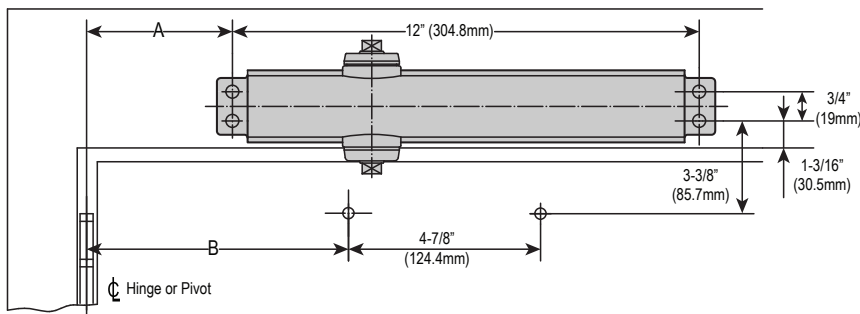


OPENING	DIM A	DIM B
TO 85°	9-3/8" (238.6mm)	12-1/4" (312mm)
TO 90°	8-3/4" (222.6mm)	11-5/8" (296mm)
TO 100°	7-7/8" (200.6mm)	10-13/16" (274mm)
TO 110°	7-1/8" (180.6mm)	10-1/16" (255mm)

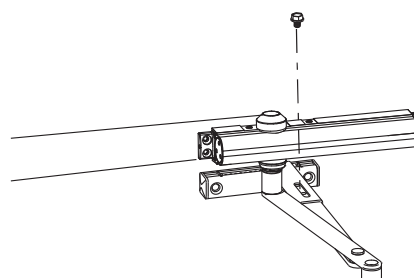
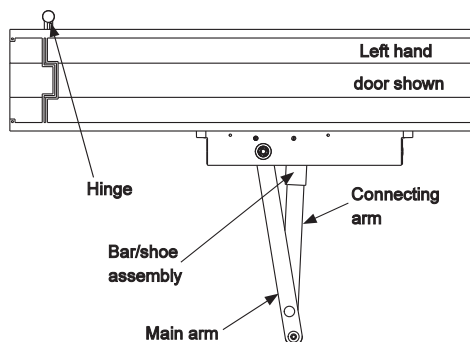


- RIGHT HAND DOOR SHOWN
- LEFT HAND DOOR OPPOSITE
- DIMENSIONS ARE IN INCHES
- DRAWING NOT TO SCALE

### CR801 / 801S SERIES : TOP JAMB INSTALLATION (PUSH SIDE)



OPENING	DIM A	DIM B
TO 85°	8-5/16" (211mm)	11" (279mm)
TO 90°	8" (203mm)	10-11/16" (271mm)
TO 100°	6-7/8" (175mm)	9-9/16" (243mm)
TO 110°	6-1/4" (159mm)	8-15/16" (227mm)

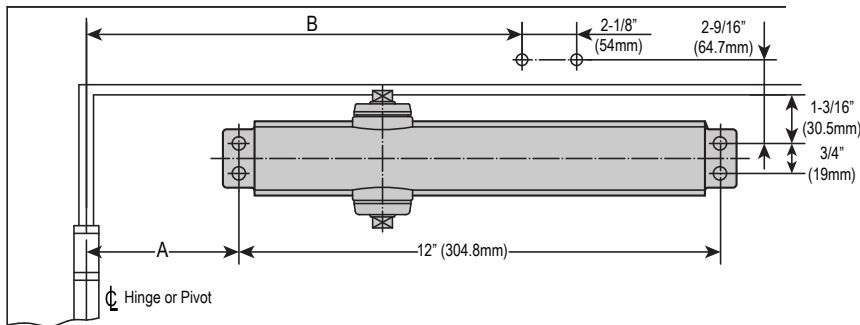


- LEFT HAND DOOR SHOWN
- RIGHT HAND DOOR OPPOSITE
- DIMENSIONS ARE IN INCHES
- DRAWING NOT TO SCALE

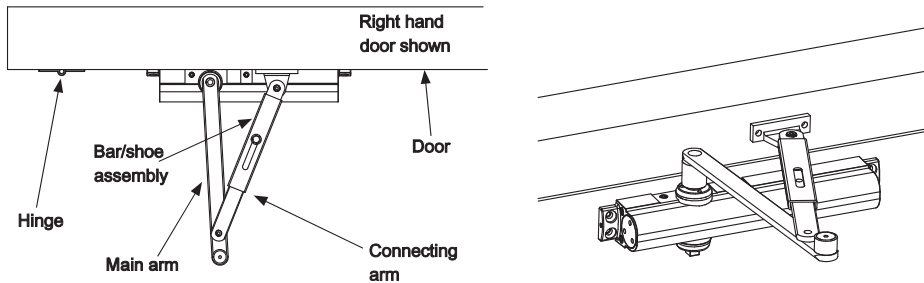
# RHDSTP ARM INSTALLATION

## Cushion Heavy Duty Stop Arm

### CR801 / 801S SERIES : REGULAR ARM INSTALLATION (PULL SIDE)

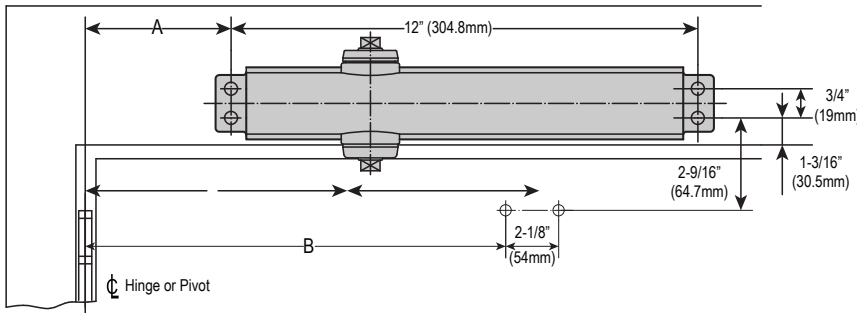


OPENING	DIM A	DIM B
TO 85°	6-1/4\"	14-5/16\"
TO 90°	5-5/8\"	14\"
TO 95°	4-13/16\"	13-11/16\"
TO 100°	5-3/4\"	13-1/16\"
TO 105°	4-1/4\"	12-3/4\"
TO 110°	4-1/8\"	12-5/16\"

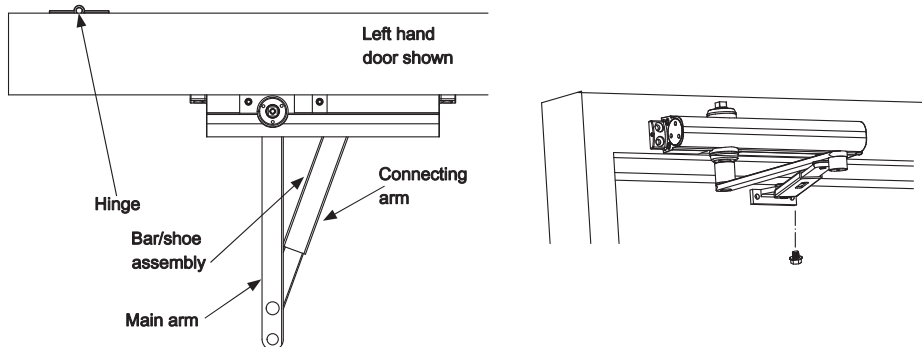


- RIGHT HAND DOOR SHOWN
- LEFT HAND DOOR OPPOSITE
- DIMENSIONS ARE IN INCHES
- DRAWING NOT TO SCALE

### CR801 / 801S SERIES : TOP JAMB INSTALLATION (PUSH SIDE)





















OPENING	DIM A	DIM B
TO 85°	6-7/8\"	13-3/8\"
TO 90°	6-1/8\"	12-13/16\"
TO 95°	5-7/8\"	12-7/16\"
TO 100°	5-5/8\"	12\"
TO 105°	5-3/8\"	11-11/16\"
TO 110°	5-1/8\"	11-7/16\"



- LEFT HAND DOOR SHOWN
- RIGHT HAND DOOR OPPOSITE
- DIMENSIONS ARE IN INCHES
- DRAWING NOT TO SCALE

# CR801 / 801S ACCESSORIES

**CAL-ROYAL**  
PRODUCTS, INC. U.S.A.

					
<b>900HOSPRING</b> <ul style="list-style-type: none"><li>• Super rigid parallel arm stopper with hold-open</li><li>• Forged Steel Constructions</li><li>• Non-handed</li><li>• Spring loaded stop in soffit shoe</li><li>• Handle controls hold-open function</li><li>• Equivalent to <b>LCN SPRING H-CUSH ARM</b></li></ul>	<b>900SPRING</b> <ul style="list-style-type: none"><li>• Super rigid parallel arm stopper</li><li>• Forged Steel Constructions</li><li>• Non-handed parallel arm</li><li>• Spring loaded stop in the soffit shoe</li></ul> Equivalent to <b>LCN SPRING CUSH ARM</b>	<b>HOSRPS / 900</b> <ul style="list-style-type: none"><li>• Super rigid parallel arm stopper with hold-open</li><li>• Forged Steel Constructions</li><li>• Non-handed with stop in soffit shoe</li><li>• Handle controls hold-open function</li><li>• Equivalent to <b>LCN H-CUSH ARM</b></li></ul>	<b>SPAS900</b> <ul style="list-style-type: none"><li>• Super rigid parallel arm stopper</li><li>• Forged Steel Constructions</li><li>• Non-handed with stop in soffit shoe</li><li>• Equivalent to <b>LCN CUSH-N-STOP ARM</b></li></ul>	<b>CR900HDAR</b> <ul style="list-style-type: none"><li>• Non-handed parallel arm</li><li>• Forged Steel main arm and forearm</li><li>• For potentially abusive installations</li></ul>	
					
<b>901 / 902</b> <ul style="list-style-type: none"><li>• Hold-open arm with parallel bracket</li><li>• Forged Steel Constructions</li><li>• Non-handed with stop in soffit shoe</li></ul>	<b>RHDSA-SS</b> <ul style="list-style-type: none"><li>• Cushion Heavy Duty Stop Spring Arm with spring shoe</li><li>• Provides a spring assisted dead stop function for regular and top jamb applications at 85°, 90°, 100°, and 110°.</li><li>• Non-Handed</li><li>• 0"-3 1/2" (0-89mm) Reveal</li><li>• Equivalent to <b>Dorma 8600 Series Spring Stop IS Arm</b></li></ul>	<b>RHDSTP</b> <ul style="list-style-type: none"><li>• Cushion Heavy Duty Stop Arm</li><li>• Provides a cushioned opening function for regular and top jamb applications at 85°, 90°, 95°, 100°, 105°, and 110°.</li><li>• Non-Handed</li><li>• 0"-3 1/2" (0-89mm) Reveal</li><li>• Equivalent to <b>Dorma 8600 Series Cushion IS Arm, and Norton 1600 Series 7701-CA Arm</b></li></ul>	<b>945AR</b> <ul style="list-style-type: none"><li>• Forged Steel main arm and forearm</li><li>• Non-handed</li><li>• Door closer arm (Main and regular forearm)</li></ul>	<b>900EXT</b> <ul style="list-style-type: none"><li>• Extended long arm (3" extension)</li><li>• Non-handed</li><li>• For top jamb with deep reveals</li></ul>	
					
<b>TRACK / 900</b> <ul style="list-style-type: none"><li>• Slide track arm</li><li>• With removable hold-open clip</li><li>• Non-handed</li></ul>	<b>904</b> <ul style="list-style-type: none"><li>• Parallel arm drop bracket</li><li>• Non-handed</li><li>• Required for non-hold open parallel arm applications</li><li>• To clear a surface-applied stop / holder</li></ul>	<b>905</b> <ul style="list-style-type: none"><li>• Parallel arm bracket</li><li>• Non-handed</li></ul>	<b>801SCOV</b> <ul style="list-style-type: none"><li>• Slim Cover</li><li>• Non-handed</li><li>• Plastic Material</li></ul>	<b>801COV</b> <ul style="list-style-type: none"><li>• Full Cover</li><li>• Non-handed</li><li>• Plastic Material</li></ul>	
					
<b>850S</b> <ul style="list-style-type: none"><li>• Slim Flat drop bracket</li><li>• Non-handed</li></ul>	<b>850W</b> <ul style="list-style-type: none"><li>• Wide Flat drop bracket</li><li>• Non-handed</li></ul>	<b>850F</b> <ul style="list-style-type: none"><li>• Full Flat drop bracket</li><li>• Non-handed</li></ul>	<b>970138</b> <ul style="list-style-type: none"><li>• Sex bolts for 1 3/8" doors</li><li>• Female part only</li><li>• 1/4" – 20 (set of 4)</li><li>• for Steel Door Application</li></ul>	<b>970</b> <ul style="list-style-type: none"><li>• Sex bolts</li><li>• Female part only</li><li>• 1/4" – 20 (set of 4)</li><li>• for Steel Door Application</li></ul>	<b>706</b> <ul style="list-style-type: none"><li>• Thru bolts and grommet nuts</li><li>• Set of 4</li><li>• for Wood and Aluminum Door Application</li></ul>

# 300 SERIES

ANSI A156.4 Grade 1, Full Cover Multi-Size, Full Feature Closer  
UL Listed, Conforms to Standards UL10C and UBC7-2-1997  
BHMA Certified Lifetime Warranty



- Meets and Exceeds ANSI Standard A156.4 Grade 1
- Universal Hole Pattern Offering Versatility and Precision Engineering for New and Retrofit Market
- Multi Size and Adjustable Commercial Door Closer Sizes 1 thru 4 and 3 thru 6 Meeting Barrier Free Applications
- Hydraulic Door Closer with Standard Back-Check
- Full Plastic Cover is Standard Feature
- Optional Adjustable Delayed Action for Handicapped or Elderly



## FEATURES

- Factory Tested to Meet or Exceed ANSI Standard A156.4 Grade 1
- **300 PBFCOV:** Non-Sized, Fully Adjustable 1 through 4, (Barrier Free ADA). Full cover. For 30-185 lbs Door Weight
- **300 PCOV:** Non-Sized, Fully Adjustable 3 through 6. Full cover. For 85-260 lbs Door Weight
- Hydraulic Door Closer with Standard Adjustable Back-Check Valve
- Standard Full Plastic Cover (2 5/8" W x 3" H x 10 1/8" L) **COV / 400**
- Universal Mounting - Standard Size #4 Mounting Holes. (9-1/16")
- Finishes Available: Alum, Dark Bronze (Duro), Gold and US3
- Dual Valve, Closing and Latching Speed Controlled by Two Separate Regulating Valves
- Universal Application, Non-Handed, Designed for All Standard Installations

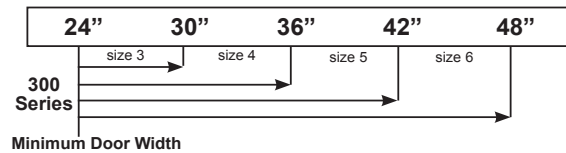
DIMENSION DESCRIPTION	300PBFCOV / 300PCOV
A. Length of Closer Body	9 3/4"
B. Horizontal Mounting Holes	9 1/16"
C. Vertical Mounting Holes	3/4"
D. Height of Closer Body	1 3/4"
E. Projection from Door	2 7/8"

## TABLE OF SIZES

Closing power of closers may be adjusted 50%

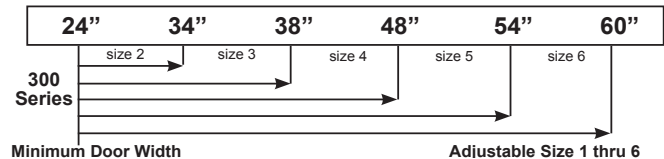
→ Shows recommended range of door width for closer size.

### EXTERIOR (and VESTIBULE) DOOR WIDTH



Minimum Door Width

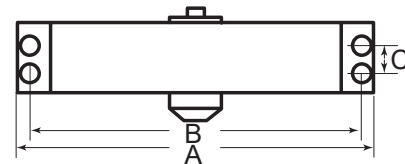
### INTERIOR DOOR WIDTH



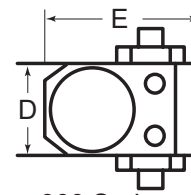
Minimum Door Width

Adjustable Size 1 thru 6

## SPECIFICATIONS



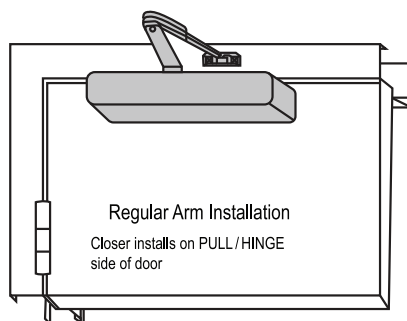
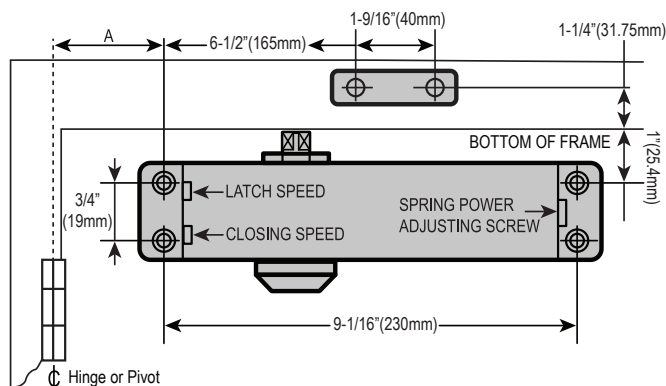
FRONT VIEW



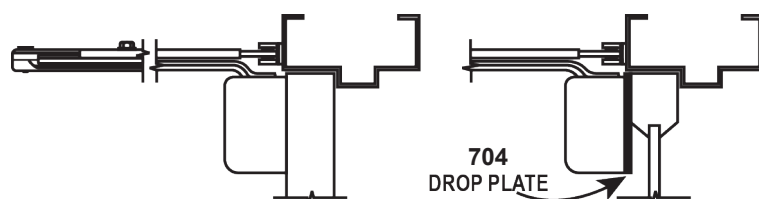
300 Series  
END VIEW



## 300 SERIES : REGULAR ARM INSTALLATION (PULL SIDE)

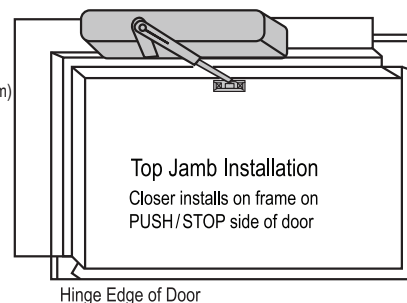
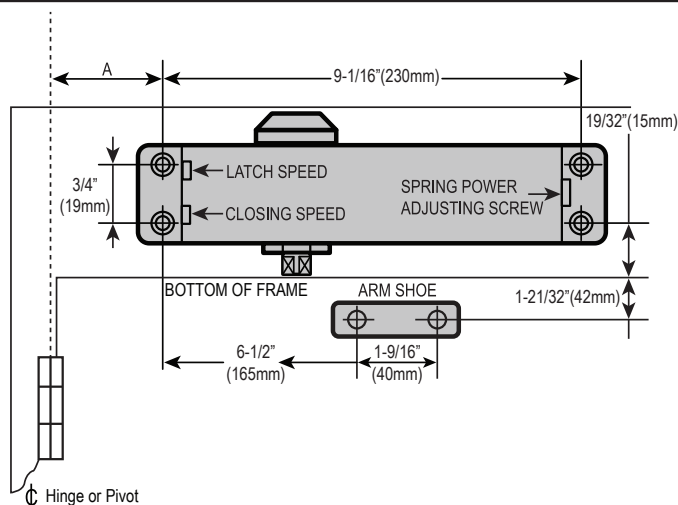


OPENING	DIM A
TO 100°	4-23/32" (120mm)
TO 100° - 120°	4-23/32" (120mm)
OVER 180°	3-5/32" (80mm)

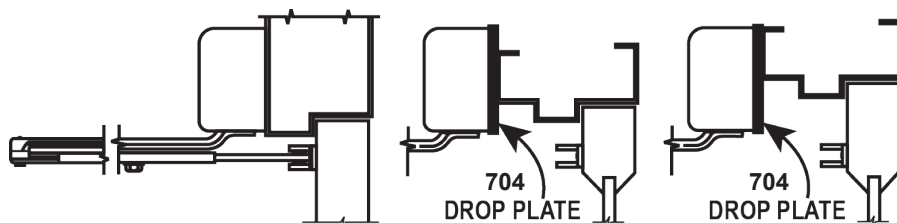


- RIGHT HAND DOOR SHOWN
- LEFT HAND DOOR OPPOSITE
- DIMENSIONS ARE IN INCHES
- DRAWING NOT TO SCALE

## 300 SERIES : TOP JAMB INSTALLATION (PUSH SIDE)

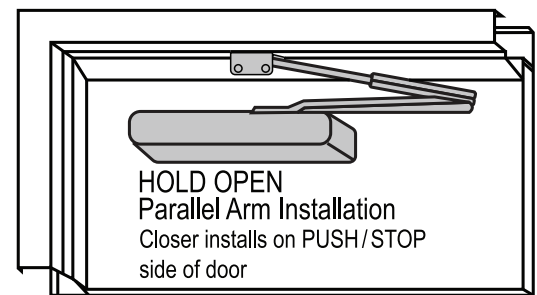
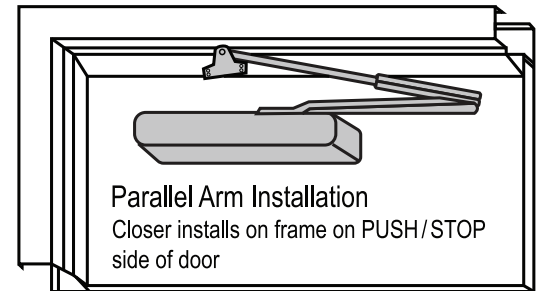
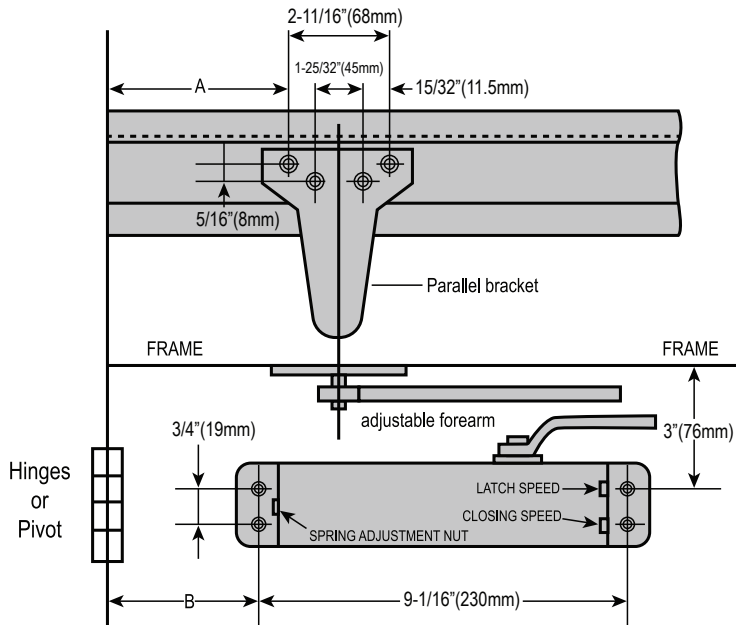


OPENING	DIM A
TO 100°	5-1/2" (140 mm)
100° 120°	5-1/8" (130 mm)
OVER 180°	3-17/22" (90 mm)



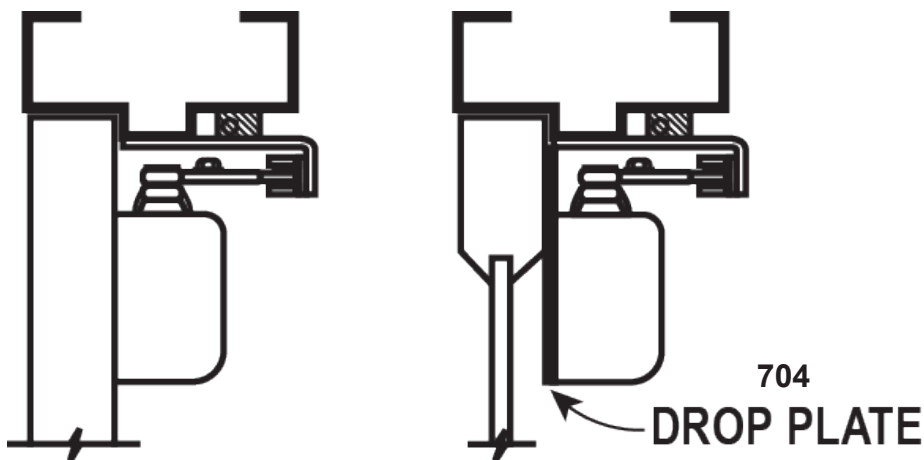
- LEFT HAND DOOR SHOWN
- RIGHT HAND DOOR OPPOSITE
- DIMENSIONS ARE IN INCHES
- DRAWING NOT TO SCALE

## 300 SERIES : PARALLEL ARM INSTALLATION (PUSH SIDE)



OPENING	DIM A	DIM B
TO 100°	7-7/8" (200 mm)	5-29/32" (150 mm)
120° - 180°	6-11/16" (170 mm)	4-23/32" (120 mm)

- LEFT HAND DOOR SHOWN
- RIGHT HAND DOOR OPPOSITE
- DIMENSIONS ARE IN INCHES
- DRAWING NOT TO SCALE

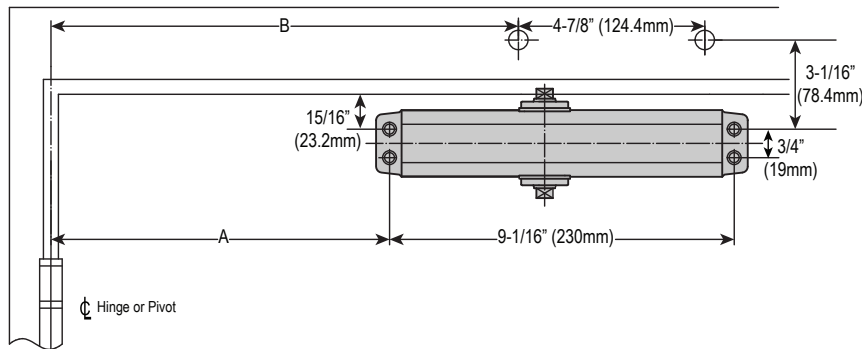


# RHDSA-SS ARM INSTALLATION

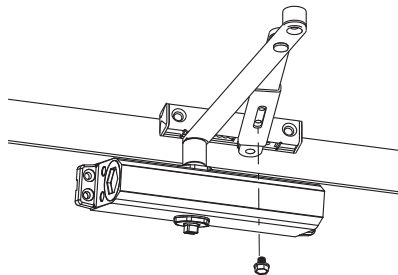
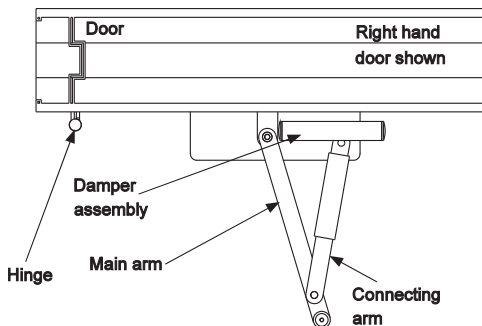
**CAL-ROYAL**  
PRODUCTS, INC. U.S.A.

## Cushion Heavy Duty Stop Spring Arm with Spring Shoe

### 300 SERIES : REGULAR ARM INSTALLATION (PULL SIDE)

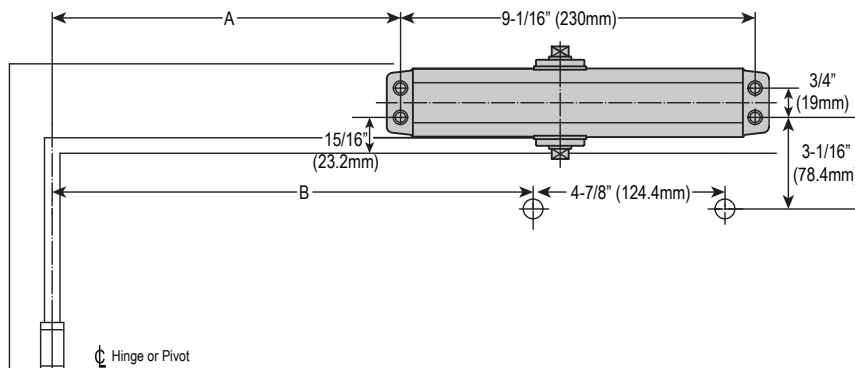


OPENING	DIM A	DIM B
TO 85°	8-7/8" (226mm)	12-1/4" (312mm)
TO 90°	8-1/4" (210mm)	11-5/8" (296mm)
TO 100°	7-3/8" (188mm)	10-13/16" (274mm)
TO 110°	6-5/8" (168mm)	10-1/16" (255mm)

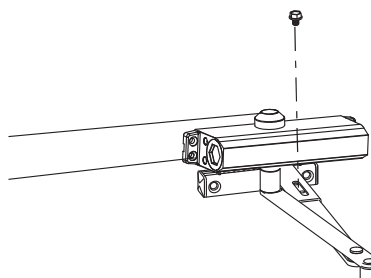
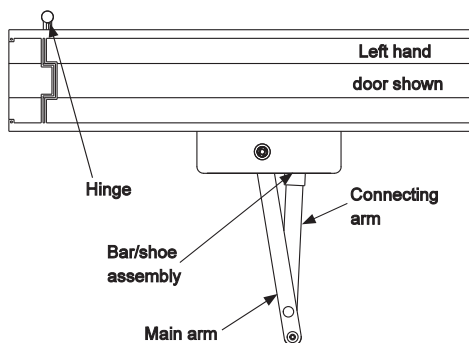


- RIGHT HAND DOOR SHOWN
- LEFT HAND DOOR OPPOSITE
- DIMENSIONS ARE IN INCHES
- DRAWING NOT TO SCALE

### 300 SERIES : TOP JAMB INSTALLATION (PUSH SIDE)



OPENING	DIM A	DIM B
TO 85°	7-13/16" (198.4mm)	11" (279mm)
TO 90°	7-1/2" (190.4mm)	10-11/16" (271mm)
TO 100°	6-3/8" (162.4mm)	9-9/16" (243mm)
TO 110°	5-3/4" (146.4mm)	8-15/16" (227mm)

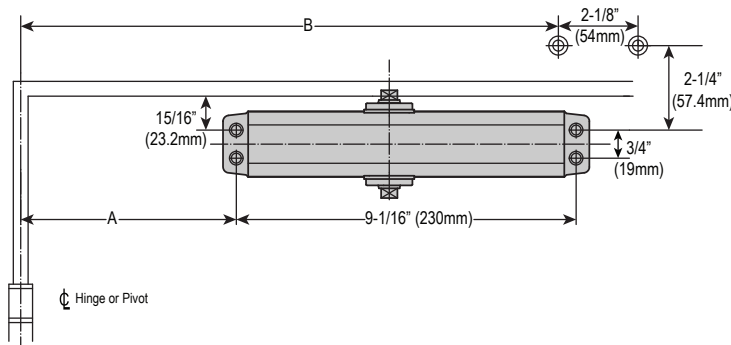


- LEFT HAND DOOR SHOWN
- RIGHT HAND DOOR OPPOSITE
- DIMENSIONS ARE IN INCHES
- DRAWING NOT TO SCALE

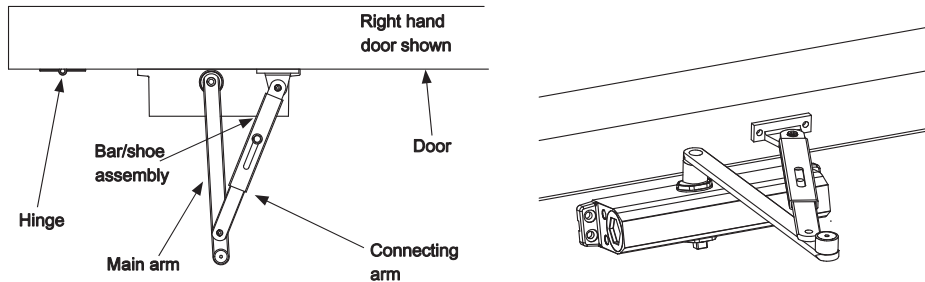
# RHDSTP ARM INSTALLATION

## Cushion Heavy Duty Stop Arm

### 300 SERIES : REGULAR ARM INSTALLATION (PULL SIDE)

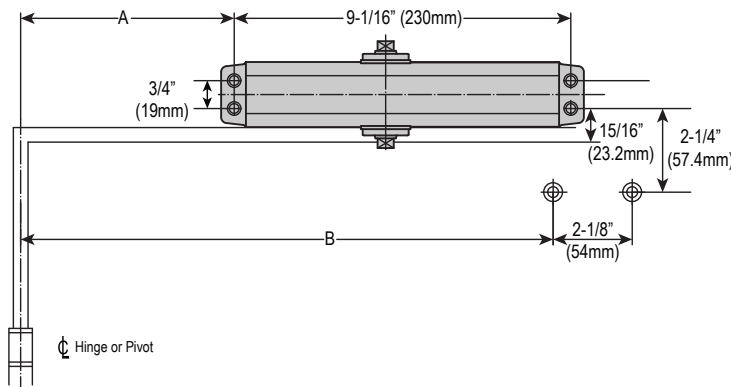


OPENING	DIM A	DIM B
TO 85°	5-3/4\"	14-5/16\"
TO 90°	5-1/8\"	14\"
TO 95°	4-5/16\"	13-11/16\"
TO 100°	5-1/4\"	13-1/16\"
TO 105°	3-3/4\"	12-3/4\"
TO 110°	3-5/8\"	12-5/16\"

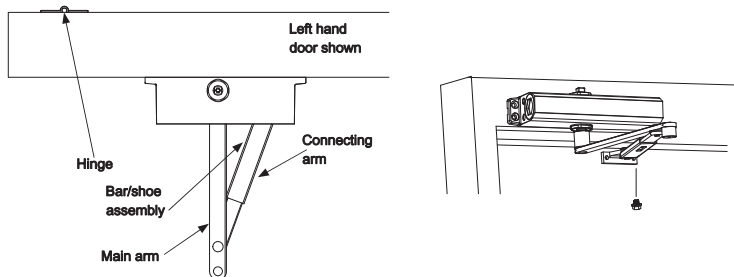


- RIGHT HAND DOOR SHOWN
- LEFT HAND DOOR OPPOSITE
- DIMENSIONS ARE IN INCHES
- DRAWING NOT TO SCALE

### 300 SERIES : TOP JAMB INSTALLATION (PUSH SIDE)



OPENING	DIM A	DIM B
TO 85°	6-3/8\"	13-3/8\"
TO 90°	5-5/8\"	12-13/16\"
TO 95°	5-3/8\"	12-7/16\"
TO 100°	5-1/8\"	12\"
TO 105°	4-7/8\"	11-11/16\"
TO 110°	4-5/8\"	11-7/16\"



- LEFT HAND DOOR SHOWN
- RIGHT HAND DOOR OPPOSITE
- DIMENSIONS ARE IN INCHES
- DRAWING NOT TO SCALE



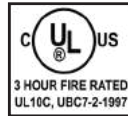
## OPTIONAL INSTALLATION

<b>REGULAR ARM (PULL SIDE)</b>	<b>MAXIMUM OPENING: 180° (Standard), 120° (Hold Open)</b>  <b>OPTIONAL INSTALLATION ARMS</b> <ul style="list-style-type: none"> <li>• 301 / 302 - Hold-Open Arm &amp; Parallel Bracket</li> <li>• TRACK / 900 - Slide Track Arm with Removable Hold-Open</li> </ul>
<b>TOP JAMB (PUSH SIDE)</b>	<b>BRACKETS</b> <ul style="list-style-type: none"> <li>• 704 - Flat Drop Bracket</li> </ul>
<b>PARALLEL ARM (PUSH SIDE)</b>	<b>MAXIMUM OPENING: 180° (Standard), 120° (Hold Open)</b>  <b>OPTIONAL INSTALLATION ARMS</b> <ul style="list-style-type: none"> <li>• 301 / 302 - Hold Open Arm &amp; Parallel Bracket</li> <li>• TRACK / 900 - Slide Track Arm with Removable Hold-Open</li> </ul> <b>BRACKETS</b> <ul style="list-style-type: none"> <li>• 704 - Flat Drop Bracket</li> <li>• 904 - Parallel Arm Drop Bracket for Non-Hold Open Parallel Arm Applications to Clear a Surface-Applied Stop / Holder</li> <li>• 905 - Parallel Arm Bracket</li> </ul>

				
<b>RHDSA-SS</b>	<b>RHDSTP</b>	<b>301 / 302</b>	<b>TRACK / 900</b>	<b>COV / 400</b>
<ul style="list-style-type: none"> <li>• Cushion Heavy Duty Stop Spring Arm with spring shoe</li> <li>• Provides a spring assisted dead stop function for regular and top jamb applications at 85°, 90°, 100°, and 110°.</li> <li>• Non-Handed</li> <li>• 0"-3 1/2" (0-89mm) Reveal</li> <li>• Equivalent to <i>Dorma 8600 Series Spring Stop IS Arm</i></li> </ul>	<ul style="list-style-type: none"> <li>• Cushion Heavy Duty Stop Arm</li> <li>• Provides a cushioned opening function for regular and top jamb applications at 85°, 90°, 95°, 100°, 105°, and 110°.</li> <li>• Non-Handed</li> <li>• 0"-3 1/2" (0-89mm) Reveal</li> <li>• Equivalent to <i>Dorma 8600 Series Cushion IS Arm, and Norton 1600 Series 7701-CA Arm</i></li> </ul>	<ul style="list-style-type: none"> <li>• Hold-Open Arm and Parallel Bracket</li> <li>• Forged Steel Constructions</li> <li>• Non-handed</li> </ul>	<ul style="list-style-type: none"> <li>• Slide track arm</li> <li>• With removable hold-open clip</li> <li>• Non-handed</li> </ul>	<ul style="list-style-type: none"> <li>• Full cover</li> <li>• Non-handed</li> <li>• Plastic Material</li> </ul>
				
<b>970138</b>	<b>970</b>	<b>904</b>	<b>905</b>	<b>704</b>
<ul style="list-style-type: none"> <li>• Sex bolts for 1 3/8" doors</li> <li>• Female part only</li> <li>• 1/4" – 20 (set of 4)</li> <li>• For Steel Door Application</li> </ul>	<ul style="list-style-type: none"> <li>• Sex bolts</li> <li>• Female part only</li> <li>• 1/4" – 20 (set of 4)</li> <li>• For Steel Door Application</li> </ul>	<ul style="list-style-type: none"> <li>• Parallel arm drop bracket</li> <li>• Non-handed</li> <li>• Required for non-hold open parallel arm applications</li> <li>• To clear a surface-applied stop / holder</li> </ul>	<ul style="list-style-type: none"> <li>• Parallel arm bracket</li> <li>• Non-handed</li> </ul>	<ul style="list-style-type: none"> <li>• Flat drop bracket</li> <li>• Non-handed</li> </ul>

# 500 SERIES

ANSI A156.4 Grade 1, Optional Cover, Full Feature Closer  
UL Listed, Conforms to Standards UL10C and UBC7-2-1997  
BHMA Certified Lifetime Warranty



- Meets and Exceeds ANSI Standard A156.4 Grade 1
- Universal Hole Pattern Offering Versatility and Precision Engineering for New and Retrofit Market
- Hydraulic Door Closer with Standard Back-Check
- Optional Slim Plastic Cover and Full 32D Cover
- Adjustable Multi Size Commercial Door Closer Sizes 1 thru 5 meeting Barrier Free Applications

## FEATURES

- Factory Tested to Meet or Exceed ANSI Standard A156.4 Grade 1
- **500PBF**: Non-Sized, Fully Adjustable 1 thru 5, (Barrier Free ADA) Interior Doors. For 30-260 lbs Door Weight; **packed with PA bracket**
- **N500PBF**: Non-Sized, Fully Adjustable 1 thru 5, (Barrier Free ADA) Interior Doors. For 30-260 lbs Door Weight; **packed with slim plastic cover (500COV), sex bolts (970), and PA bracket (505)**
- Hydraulic Door Closer with Standard Adjustable Back-Check Valve
- Optional Slim Plastic Cover (2" W x 3" H x 10-5/8" L), PART# 500COV
- Optional Stainless Steel Full Cover, PART# 500COV 32D
- Universal Mounting - Standard Size #4 Mounting Holes (9 1/16")
- Finishes Available: Alum and Dark Bronze (Duro)
- Dual Valve, Closing and Latching Speed Controlled by Two Separate Regulating Valves

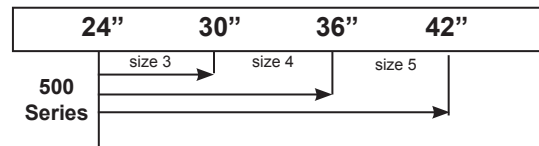
DESCRIPTION	500PBF
A. Length of Closer Body	9 3/4"
B. Horizontal Mounting Holes	9 1/16"
C. Vertical Mounting Holes	3/4"
D. Height of Closer Body	1 3/4"
E. Projection from Door	2 7/8"

## TABLE OF SIZES

Closing power of closers may be adjusted 50%

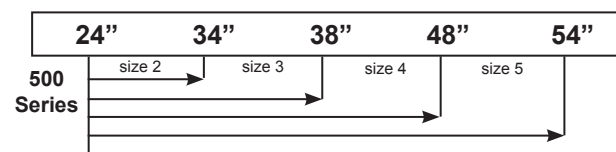
→ Shows recommended range of door width for closer size.

### EXTERIOR (and VESTIBULE) DOOR WIDTH



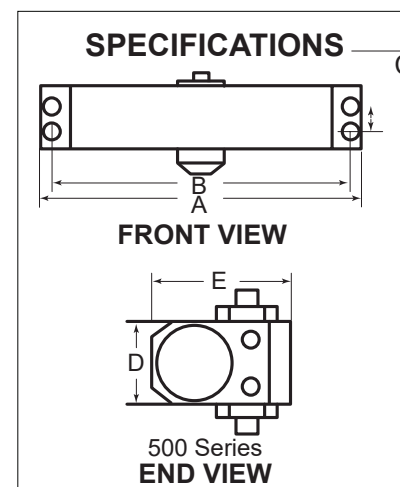
Minimum Door Width

### INTERIOR DOOR WIDTH

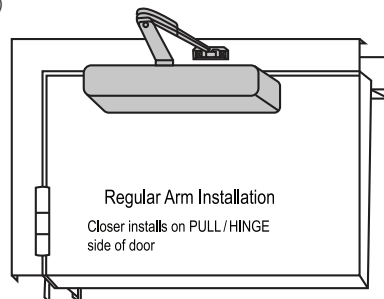
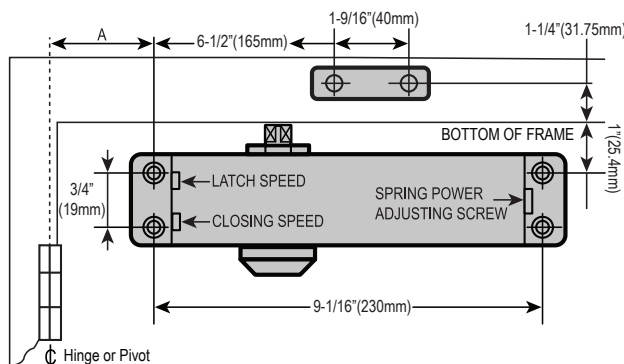


Minimum Door Width

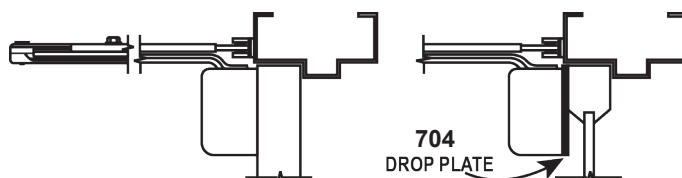
Adjustable Size 1 thru 5



## 500 SERIES : REGULAR ARM INSTALLATION (PULL SIDE)

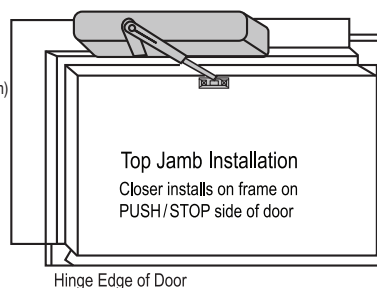
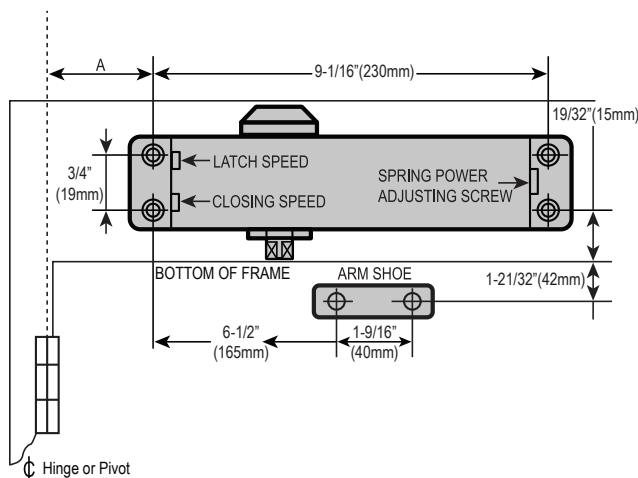


OPENING	DIM A
TO 100°	4-23/32" (120 mm)
100° - 120°	4-23/32" (120 mm)
OVER 180°	5-5/32" (80 mm)

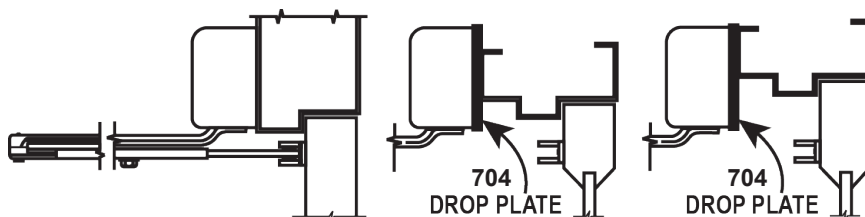


- RIGHT HAND DOOR SHOWN
- LEFT HAND DOOR OPPOSITE
- DIMENSIONS ARE IN INCHES
- DRAWING NOT TO SCALE

## 500 SERIES: TOP JAMB INSTALLATION (PUSH SIDE)

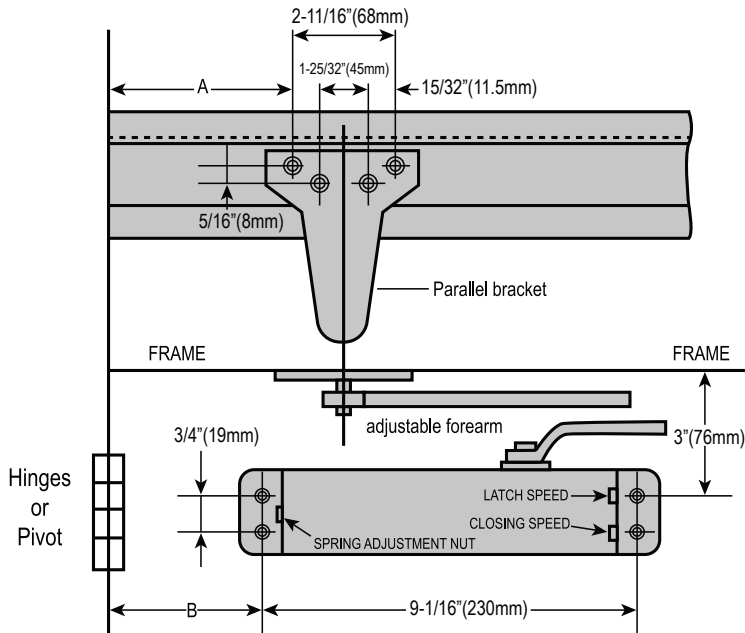


OPENING	DIM A
TO 100°	5-1/2" (140 mm)
100° - 120°	5-1/8" (130 mm)
OVER 180°	3-17/32" (90 mm)

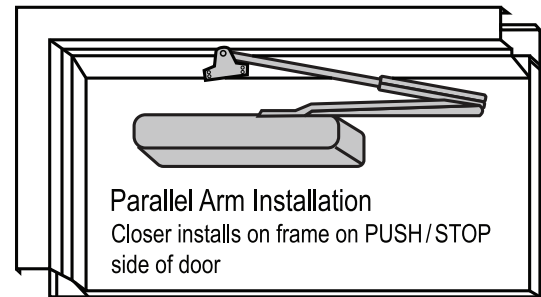


- LEFT HAND DOOR SHOWN
- RIGHT HAND DOOR OPPOSITE
- DIMENSIONS ARE IN INCHES
- DRAWING NOT TO SCALE

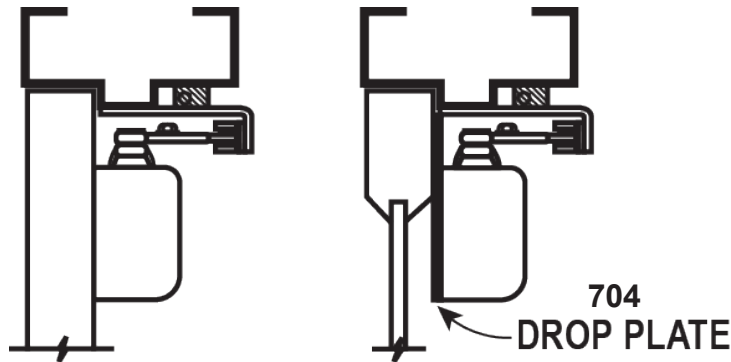
## 500 SERIES : PARALLEL ARM INSTALLATION (PUSH SIDE)



- LEFT HAND DOOR SHOWN
- RIGHT HAND DOOR OPPOSITE
- DIMENSIONS ARE IN INCHES
- DRAWING NOT TO SCALE



OPENING	DIM A	DIM B
TO 100°	7-7/8" (200 mm)	5-29/32" (150 mm)
120° - 180°	6-11/16" (170 mm)	4-23/32" (120 mm)

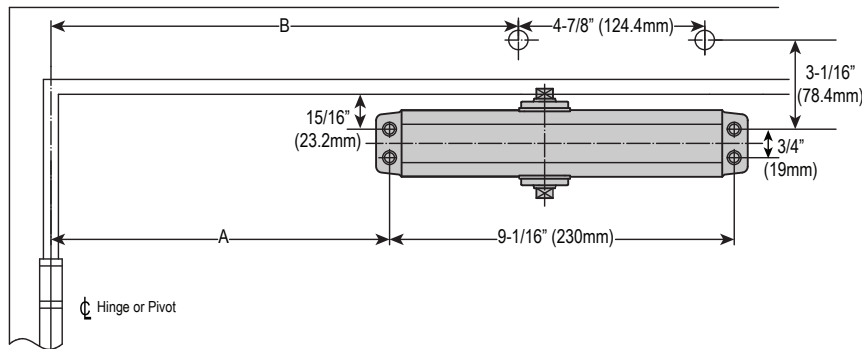


# RHDSA-SS ARM INSTALLATION

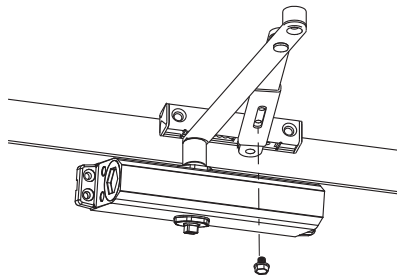
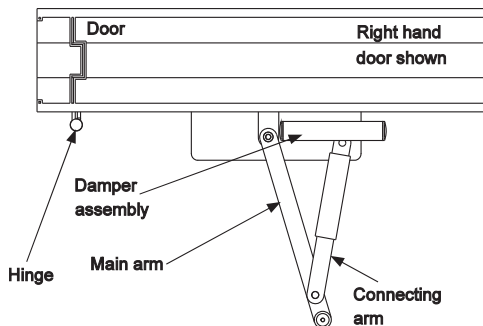
**CAL-ROYAL**  
PRODUCTS, INC. U.S.A.

## Cushion Heavy Duty Stop Spring Arm with Spring Shoe

### 500 SERIES : REGULAR ARM INSTALLATION (PULL SIDE)

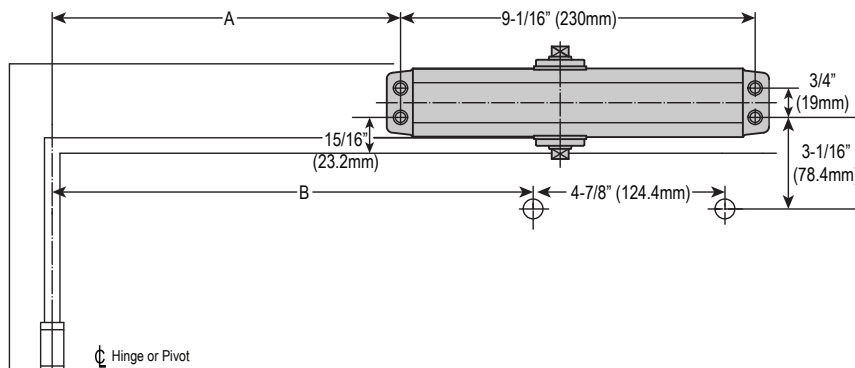


OPENING	DIM A	DIM B
TO 85°	8-7/8\"	12-1/4\"
TO 90°	8-1/4\"	11-5/8\"
TO 100°	7-3/8\"	10-13/16\"
TO 110°	6-5/8\"	10-1/16\"

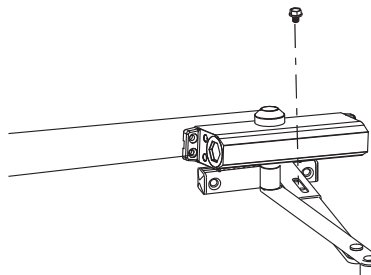
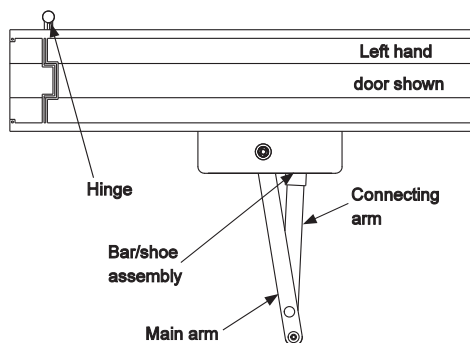


- RIGHT HAND DOOR SHOWN
- LEFT HAND DOOR OPPOSITE
- DIMENSIONS ARE IN INCHES
- DRAWING NOT TO SCALE

### 500 SERIES : TOP JAMB INSTALLATION (PUSH SIDE)



OPENING	DIM A	DIM B
TO 85°	7-13/16\"	11\"
TO 90°	7-1/2\"	10-11/16\"
TO 100°	6-3/8\"	9-9/16\"
TO 110°	5-3/4\"	8-15/16\"



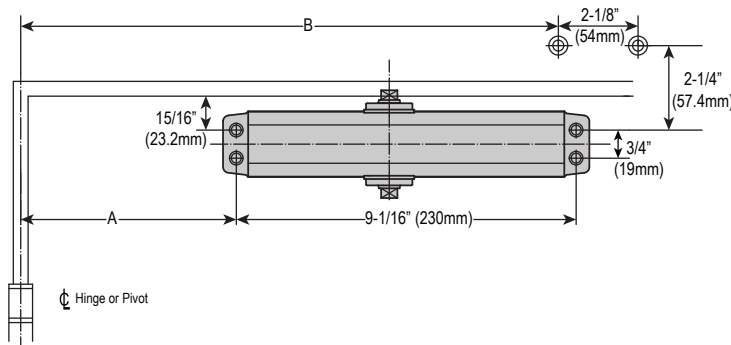
- LEFT HAND DOOR SHOWN
- RIGHT HAND DOOR OPPOSITE
- DIMENSIONS ARE IN INCHES
- DRAWING NOT TO SCALE



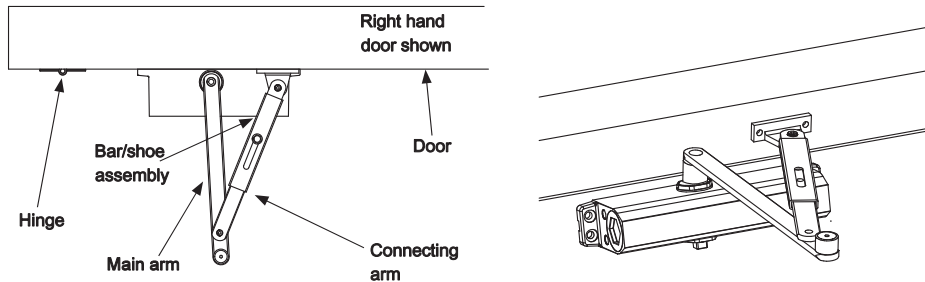
# RHDSTP ARM INSTALLATION

## Cushion Heavy Duty Stop Arm

### 500 SERIES : REGULAR ARM INSTALLATION (PULL SIDE)

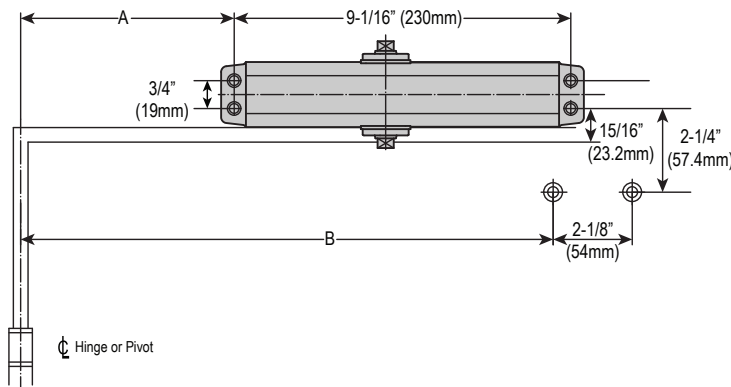


OPENING	DIM A	DIM B
TO 85°	5-3/4\" (146mm)	14-5/16\" (364mm)
TO 90°	5-1/8\" (130mm)	14\" (355mm)
TO 95°	4-5/16\" (110mm)	13-11/16\" (348mm)
TO 100°	5-1/4\" (133mm)	13-1/16\" (332mm)
TO 105°	3-3/4\" (95mm)	12-3/4\" (323mm)
TO 110°	3-5/8\" (92mm)	12-5/16\" (313mm)

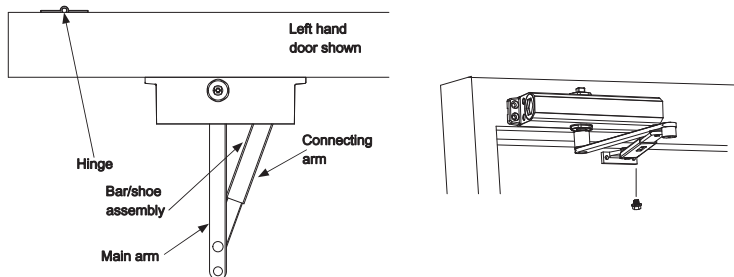


- RIGHT HAND DOOR SHOWN
- LEFT HAND DOOR OPPOSITE
- DIMENSIONS ARE IN INCHES
- DRAWING NOT TO SCALE

### 500 SERIES : TOP JAMB INSTALLATION (PUSH SIDE)













OPENING	DIM A	DIM B
TO 85°	6-3/8\" (162mm)	13-3/8\" (339mm)
TO 90°	5-5/8\" (143mm)	12-13/16\" (326mm)
TO 95°	5-3/8\" (137mm)	12-7/16\" (316mm)
TO 100°	5-1/8\" (130mm)	12\" (304mm)
TO 105°	4-7/8\" (124mm)	11-11/16\" (297mm)
TO 110°	4-5/8\" (117mm)	11-7/16\" (291mm)



- LEFT HAND DOOR SHOWN
- RIGHT HAND DOOR OPPOSITE
- DIMENSIONS ARE IN INCHES
- DRAWING NOT TO SCALE

## OPTIONAL INSTALLATION

<b>REGULAR ARM (PULL SIDE)</b>	<b>MAXIMUM OPENING: 180° (Standard), 120° (Hold Open)</b> <b>OPTIONAL INSTALLATION ARMS</b>
<b>TOP JAMB (PUSH SIDE)</b>	<ul style="list-style-type: none"> <li>• 501 / 502- Hold-Open Arm with Parallel Bracket, Non-Handed with Stop in Soffit Shoe</li> </ul> <b>BRACKETS</b> <ul style="list-style-type: none"> <li>• 704 - Flat Drop Bracket</li> </ul>
<b>PARALLEL ARM (PUSH SIDE)</b>	<b>MAXIMUM OPENING: 180° (Standard), 120° (Hold Open)</b> <b>OPTIONAL INSTALLATION ARMS</b> <ul style="list-style-type: none"> <li>• 501 / 502 - Hold-Open Arm &amp; Parallel Bracket, Non-Handed with Stop in Soffit Shoe</li> </ul> <b>BRACKETS</b> <ul style="list-style-type: none"> <li>• 704 - Flat Drop Plate</li> <li>• 904 - Parallel Arm Drop Bracket for Non-Hold Open Parallel Arm Applications to Clear a Surface-Applied Stop / Holder</li> <li>• 505 - Parallel Arm Bracket</li> </ul>

							
<b>RHDSA-SS</b>		<b>RHDSTP</b>		<b>501 / 502</b>		<b>500COV</b>	
<ul style="list-style-type: none"><li>• Cushion Heavy Duty Stop Spring Arm with spring shoe</li><li>• Provides a spring assisted dead stop function for regular and top jamb applications at 85°, 90°, 100°, and 110°.</li><li>• Non-Handed</li><li>• 0"-3 ½" (0-89mm) Reveal</li><li>• Equivalent to: <b>Dorma 8600 Series Spring Stop IS Arm</b></li></ul>		<ul style="list-style-type: none"><li>• Cushion Heavy Duty Stop Arm</li><li>• Provides a cushioned opening function for regular and top jamb applications at 85°, 90°, 95°, 100°, 105°, and 110°.</li><li>• Non-Handed</li><li>• 0"-3 ½" (0-89mm) Reveal</li><li>• Equivalent to: <b>Dorma 8600 Series Cushion IS Arm, and Norton 1600 Series 7701-CA Arm</b></li></ul>		<ul style="list-style-type: none"><li>• Hold-Open Arm and Parallel Bracket</li><li>• Forged Steel Constructions</li><li>• Non-handed</li></ul>		<ul style="list-style-type: none"><li>• Slim cover</li><li>• Non-handed</li><li>• Plastic material</li></ul>	
							
				<b>704</b>		<b>500COV 32D</b>	
				<ul style="list-style-type: none"><li>• Flat drop bracket</li><li>• Non-handed</li></ul>		<ul style="list-style-type: none"><li>• Full cover</li><li>• Non-handed</li><li>• Stainless Steel material</li></ul>	
							
<b>970138</b>		<b>970</b>		<b>706</b>		<b>904</b>	
<ul style="list-style-type: none"><li>• Sex bolts for 1 ¾" doors</li><li>• Female part only</li><li>• ¼" – 20 (set of 4)</li><li>• For Steel Door Application</li></ul>		<ul style="list-style-type: none"><li>• Sex bolts</li><li>• Female part only</li><li>• ¼" – 20 (set of 4)</li><li>• For Steel Door Application</li></ul>		<ul style="list-style-type: none"><li>• Thru bolts and grommet nuts</li><li>• Set of 4</li><li>• for Wood &amp; Aluminum Door Application</li></ul>		<ul style="list-style-type: none"><li>• Parallel arm drop bracket</li><li>• Non-handed</li><li>• Required for non-hold open parallel arm applications</li><li>• To clear a surface-applied stop / holder</li></ul>	
						<ul style="list-style-type: none"><li>• Parallel arm bracket</li><li>• Non-handed</li></ul>	

# 700 SERIES

ANSI A156.4 Grade 1, Optional Slim Cover, Sized Door Closer  
UL Listed, Conforms to Standards UL10C and UBC7-2-1997  
Lifetime Warranty



- Meets and Exceeds ANSI Standard A156.4 Grade 1
- Universal Hole Pattern Offering Versatility and Precision Engineering for New and Retrofit Market
- Choice of Regular, Parallel, or Hold-Open Arms for All Standard Applications
- Sized Door Closer. Sizes 2, 3, 4 and 5
- Hydraulic Door Closer with Optional Back-Check
- Optional Slim Plastic Cover

## FEATURES

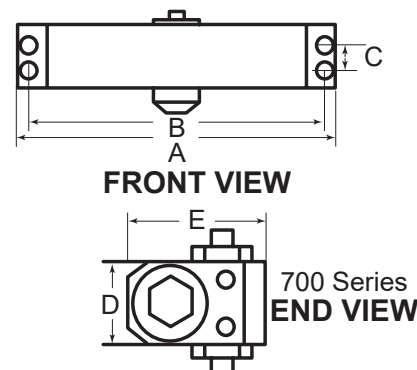
- Hydraulic Door Closer with Dual Valve, Closing and Latching Speed Controlled by Two Separate Regulating Valves
- Universal Application, Non-Handed, Designed for All Standard Installations
- Reinforced Type Adjustable Tube Arm
- Rack and Pinion Operation Contained in a High Tensile Precision Cast Aluminum Housing for the Highest Quality
- High Quality Hydraulic Fluid for High Lubricity and Constant Lubrication
- The Streamlined Design Permits Installation on Most Commercial and Residential Applications without Adaptors
- Sized Door Closer. 720 Size 2, 730 Size 3, 740 Size 4 and 750 Size 5

## RECOMMENDED CLOSER SIZES FOR INTERIOR & EXTERIOR

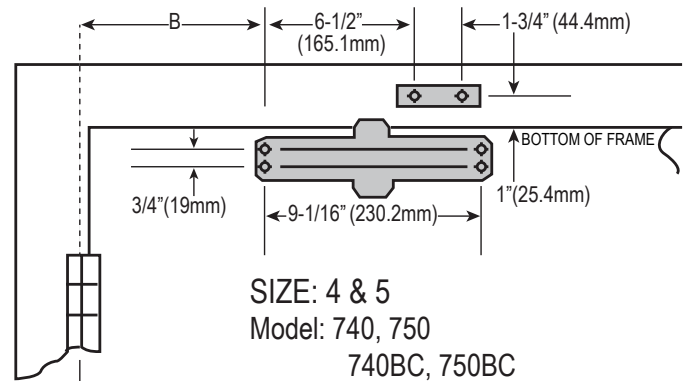
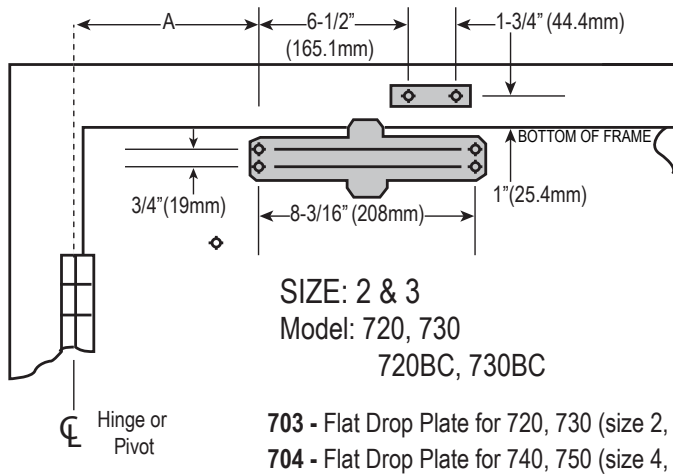
REGULAR CLOSERS				CLOSERS WITH PARALLEL ARM ADAPTER				
MODEL NO.	DOOR WEIGHT (POUNDS) ALL MODELS	MODEL NO.	TYPE OF DOOR	MAXIMUM SIZE OF DOOR			MAXIMUM SIZE OF DOOR	
REGULAR		HOLD OPEN ACCESSORIES		INTERIOR	EXTERIOR INSWINGING	INTERIOR OUTSWINGING	INTERIOR	EXTERIOR INSWINGING
720	55-100	901/902	Heavy screen doors or medium weight interior door of wood or metal	3'0"	----	----	2'6"	----
730	88-143	901/902	Light exterior doors and interior doors of wood or metal	3'6"	2'6"	3'0"	3'0"	2'6"
740	120-187	901/902	Exterior doors and heavy interior doors of wood or metal	4'0"	3'0"	3'6"	3'6"	3'0"
750	176-265	901/902	Heavy exterior doors and heavy interior doors	4'6"	3'6"	4'0"	4'0"	3'6"

NOTE: Doors of unusual height or weight, or doors subject to severe wind or draft conditions, or abusive usage, require the next larger model closer than the schedule.

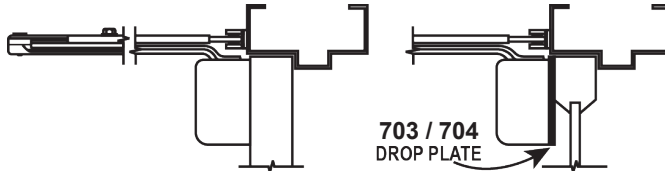
SPECIFICATIONS				
DESCRIPTION	SIZE 2	SIZE 3	SIZE 4	SIZE 5
A. Length of Closer Body	8 7/8"	8 7/8"	9 3/4"	9 3/4"
B. Horizontal Mounting Holes	8 3/16"	8 3/16"	9 1/16"	9 1/16"
C. Vertical Mounting Holes	3/4"	3/4"	3/4"	3/4"
D. Height of Closer Body	1 3/4"	1 3/4"	1 3/4"	1 3/4"
E. Projection from Door	2 7/8"	2 7/8"	2 7/8"	2 7/8"



## 700 SERIES: REGULAR ARM INSTALLATION (PULL SIDE)

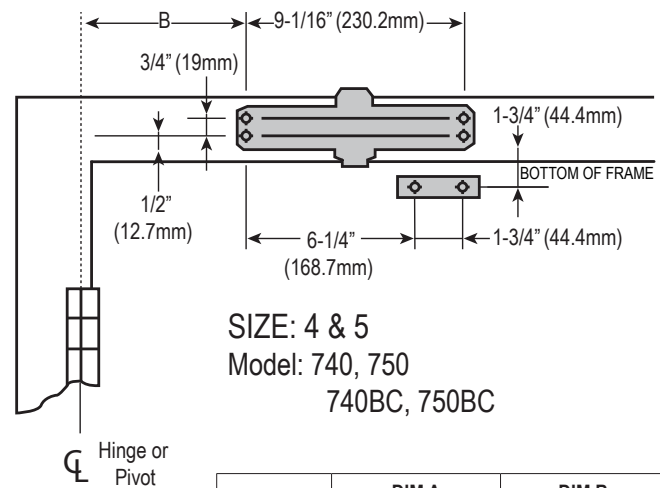
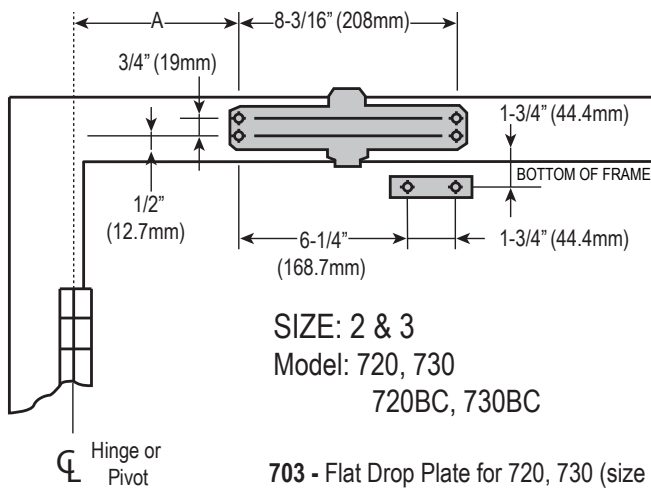


OPENING	DIM A SIZE 2 & 3	DIM B SIZE 4 & 5
120° - 180°	6-1/2" (165.1 mm)	6-1/2" (165.1 mm)
OVER 180°	4" (101.6 mm)	4" (101.6 mm)

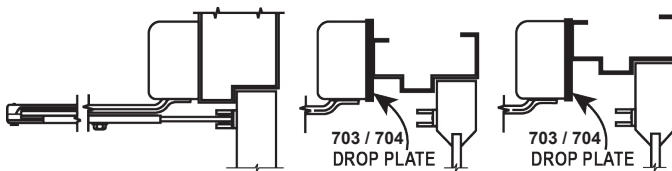


- RIGHT HAND DOOR SHOWN
- RIGHT HAND DOOR OPPOSITE
- DIMENSIONS ARE IN INCHES
- DRAWING NOT TO SCALE

## TOP JAMB INSTALLATION (PUSH SIDE)

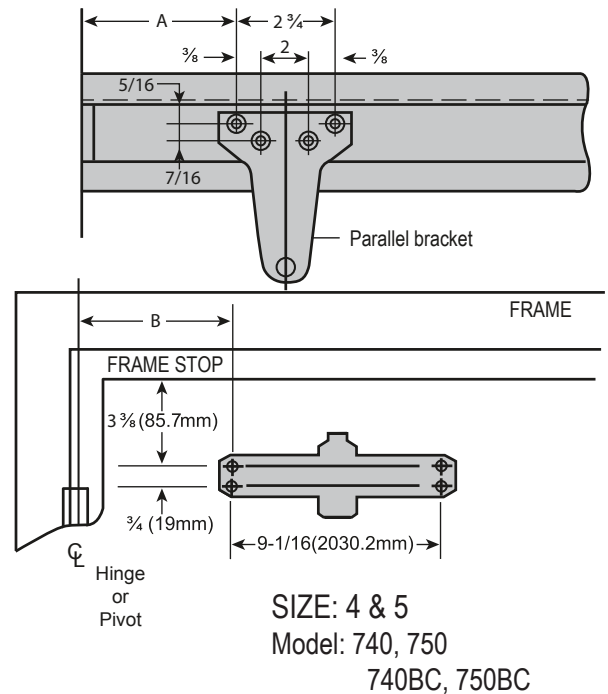
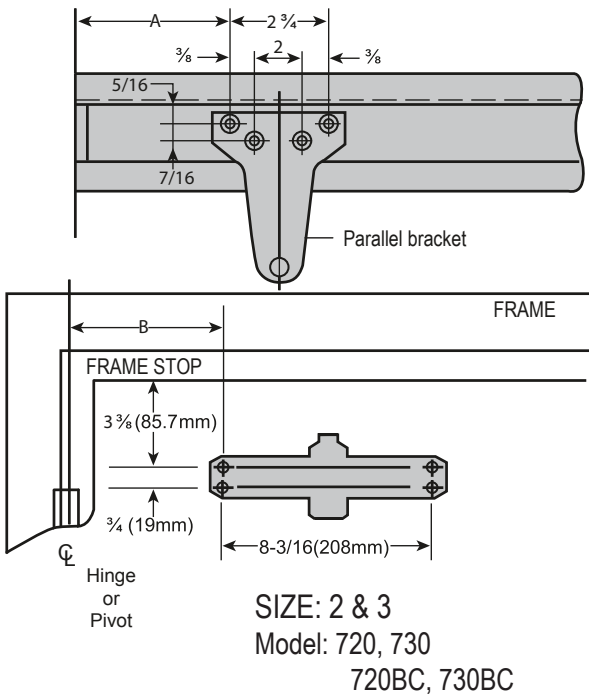


OPENING	DIM A SIZE 2 & 3	DIM B SIZE 4 & 5
120° - 180°	6-1/2" (165.1 mm)	6-1/2" (165.1 mm)
OVER 180°	4" (101.6 mm)	4" (101.6 mm)



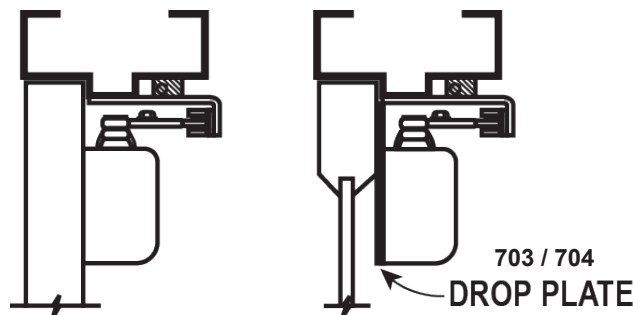
- LEFT HAND DOOR SHOWN
- RIGHT HAND DOOR OPPOSITE
- DIMENSIONS ARE IN INCHES
- DRAWING NOT TO SCALE

## 700 SERIES : PARALLEL ARM INSTALLATION (PUSH SIDE)



- LEFT HAND DOOR SHOWN
- RIGHT HAND DOOR OPPOSITE
- DIMENSIONS ARE IN INCHES
- DRAWING NOT TO SCALE

OPENING	DIM A SIZE 2 & 3	DIM B SIZE 2 & 3	DIM A SIZE 4 & 5	DIM B SIZE 4 & 5
120° - 180°	8-5/8" (219 mm)	7-13/16" (198.4 mm)	8-5/8" (219 mm)	6-15/16" (176.2 mm)
OVER 180°	6-9/16" (166.7 mm)	5-5/8" (142.9 mm)	6-9/16" (166.7 mm)	5-3/16" (131.8 mm)



703 - Flat Drop Plate for 720, 730 (size 2, 3)



704 - Flat Drop Plate for 740, 750 (size 4, 5)




## OPTIONAL INSTALLATION

<b>REGULAR ARM (PULL SIDE)</b>	<b>MAXIMUM OPENING: 180° (Standard), 120° (Hold Open)</b> <b>OPTIONAL INSTALLATION ARMS</b> <ul style="list-style-type: none"> <li>901 / 902 - Hold-Open Arm with Parallel Bracket, Non-Handed with Stop in Soffit Shoe</li> <li>745AR - Door Closer Arm (Main and Regular Forearm)</li> </ul>		
<b>TOP JAMB (PUSH SIDE)</b>	<b>BRACKETS</b> <ul style="list-style-type: none"> <li>703 - Flat Drop Plate for 720, 730 (size 2, 3)</li> <li>704 - Flat Drop Plate for 740, 750 (size 4, 5)</li> </ul>		
<b>PARALLEL ARM (PUSH SIDE)</b>	<b>MAXIMUM OPENING: 180° (Standard), 120° (Hold Open)</b> <b>OPTIONAL INSTALLATION ARMS</b> <ul style="list-style-type: none"> <li>901 / 902 - Hold-Open Arm with Parallel Bracket, Non-Handed with Stop in Soffit Shoe</li> <li>745AR - Door Closer Arm (Main and Regular Forearm)</li> </ul> <b>BRACKETS</b> <ul style="list-style-type: none"> <li>905 - Parallel Arm Bracket</li> <li>703 - Flat Drop Plate for 720, 730 (size 2, 3)</li> <li>704 - Flat Drop Plate for 740, 750 (size 4, 5)</li> </ul>		

			
<b>500COV</b>	<b>905</b>	<b>745AR</b>	<b>901 / 902</b>
<ul style="list-style-type: none"> <li>Slim cover</li> <li>Non-handed</li> <li>Plastic material</li> </ul>	<ul style="list-style-type: none"> <li>Parallel arm bracket</li> <li>Non-handed</li> </ul>	<ul style="list-style-type: none"> <li>Forged Steel main arm and forearm</li> <li>Non-handed</li> <li>Door closer arm (Main and regular forearm)</li> </ul>	<ul style="list-style-type: none"> <li>Hold-open arm with parallel bracket</li> <li>Forged Steel Constructions</li> <li>Non-handed with stop in soffit shoe</li> </ul>

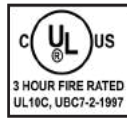
		
<b>970138</b>	<b>970</b>	<b>706</b>
<ul style="list-style-type: none"> <li>Sex bolts for 1 3/8" doors</li> <li>Female part only</li> <li>1/4" - 20 (set of 4)</li> <li>For Steel Door Application</li> </ul>	<ul style="list-style-type: none"> <li>Sex bolts</li> <li>Female part only</li> <li>1/4" - 20 (set of 4)</li> <li>For Steel Door Application</li> </ul>	<ul style="list-style-type: none"> <li>Thru bolts and grommet nuts</li> <li>Set of 4</li> <li>For Wood and Aluminum Door Application</li> </ul>

	
<b>703</b>	<b>704</b>
<ul style="list-style-type: none"> <li>Flat drop bracket</li> <li>Non-handed</li> </ul>	<ul style="list-style-type: none"> <li>Flat drop bracket</li> <li>Non-handed</li> </ul>

# 400 SERIES

ANSI A156.4 Grade 2, Optional Full Cover, Sized Door Closer  
UL Listed Conforms to standards UL10C and UBC7-2-1997  
5 Year Warranty



**5-YEAR  
WARRANTY**



- Standard Duty Commercial Hydraulic Door Closer Precision Engineering for New Construction
- Meets and Exceeds ANSI Standard A156.4 Grade 2
- Sized Door Closer, Sizes 2, 3 and 4
- for All Standard Applications
- Optional Full Cover
- Optional Back-Check
- Heavy Duty Rack and Pinion

## FEATURES

- Sized Hydraulic Door Closers. **420-P** Size 2, **430-P** Size 3, **SM430-P** Size 3, and **440-P** Size 4
- Dual Valve, Closing and Latching Speed Controlled by Two Separate Regulating Valves
- Universal Application, Non-Handed, Designed for All Standard Installations
- Reinforced Type Adjustable Tube Arm
- Rack and Pinion Operated Contained in a High Tensile Precision Cast Aluminum Housing for the Highest Quality
- The Streamlined Design Permits Installation on Most Commercial and Residential Applications without Adaptors

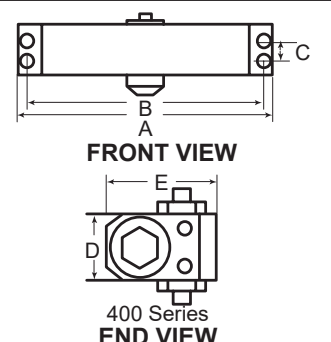
## RECOMMENDED CLOSER SIZES FOR INTERIOR & EXTERIOR

REGULAR CLOSERS							CLOSERS WITH PARALLEL ARM ADAPTER	
MODEL NO.	DOOR WEIGHT (POUNDS) ALL MODELS	MODEL NO.	TYPE OF DOOR	MAXIMUM SIZE OF DOOR			MAXIMUM SIZE OF DOOR	
REGULAR		HOLD OPEN ACCESSORIES		INTERIOR	EXTERIOR INSWINGING	INTERIOR OUTSWINGING	INTERIOR	EXTERIOR INSWINGING
420P	55-100	301/302	Heavy screen doors or medium weight interior door of wood or metal	3'0"	----	----	2'6"	----
430P	88-143	301/302	Light exterior doors and interior doors of wood or metal	3'6"	2'6"	3'0"	3'0"	2'6"
440P/ SM430-P	120-187	301/302	Exterior doors and heavy interior doors of wood or metal	4'0"	3'0"	3'6"	3'6"	3'0"

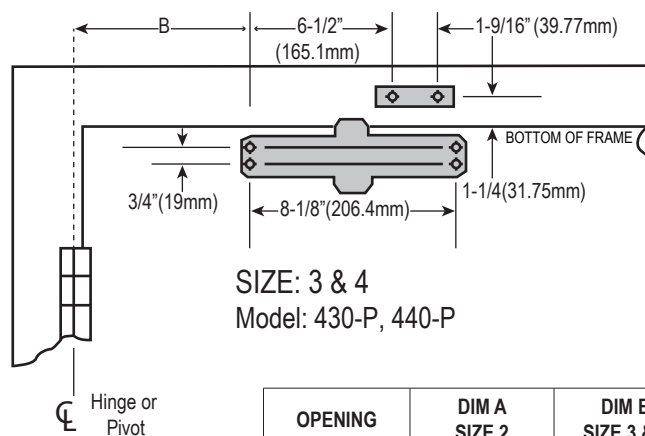
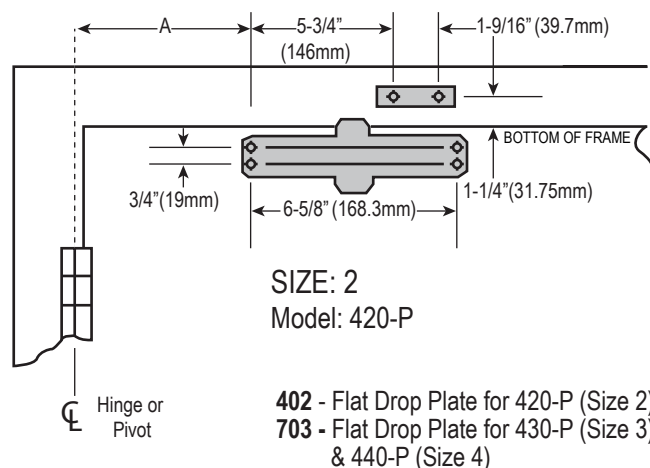
**NOTE:** Doors of unusual height or weight, or doors subject to severe wind or draft conditions, or abusive usage, require the next larger model closer than the schedule.

## SPECIFICATIONS

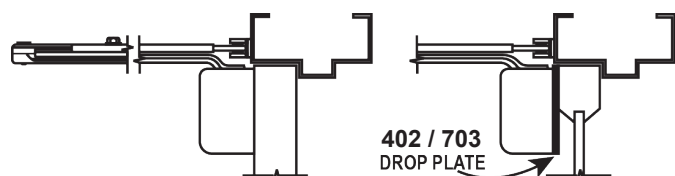
DESCRIPTION	420-P	SM 430-P	430-P	440-P
	SIZE 2	SIZE 3	SIZE 3	SIZE 4
A. Length of Closer Body	7 1/4"	7 1/8"	8 3/4"	8 3/4"
B. Horizontal Mounting Holes	6 5/8"	6 1/2"	8 3/16"	8 3/16"
C. Vertical Mounting Holes	3/4"	3/4"	3/4"	3/4"
D. Height of Closer Body	1 3/4"	1 3/4"	1 3/4"	1 3/4"
E. Projection from Door	2 5/8"	2 15/32"	2 7/8"	2 7/8"



## 400 SERIES : REGULAR ARM INSTALLATION (PULL SIDE)

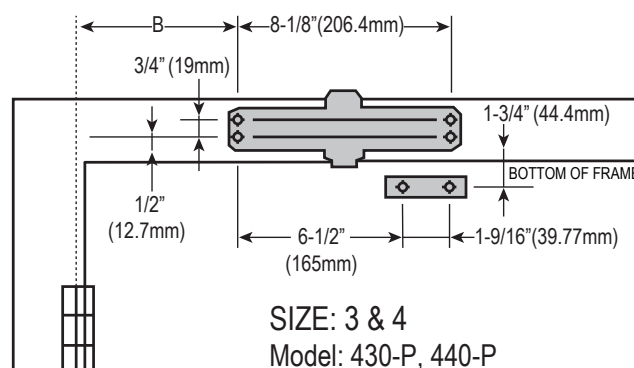
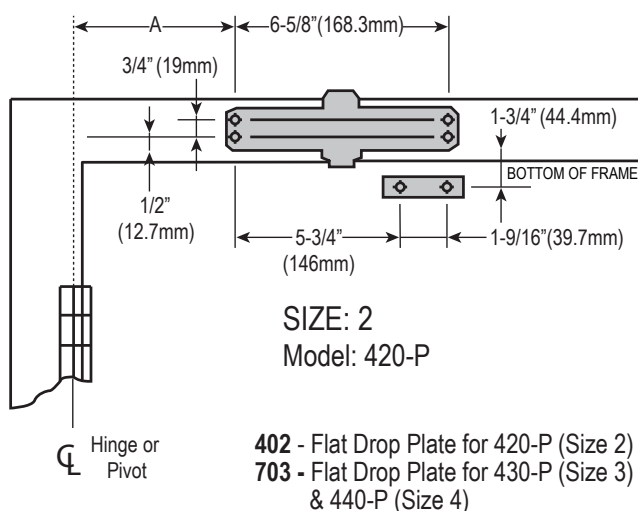


OPENING	DIM A SIZE 2	DIM B SIZE 3 & 4
120° - 180°	3-3/4" (95.25 mm)	4-3/4" (120.1 mm)
OVER 180°	2-9/16" (65 mm)	3-1/8" (79.4 mm)

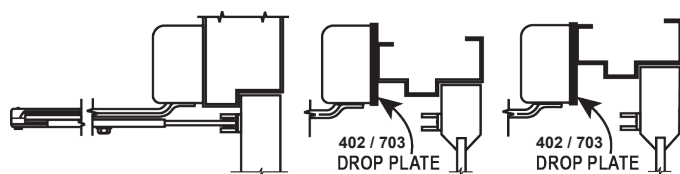


- RIGHT HAND DOOR SHOWN
- LEFT HAND DOOR OPPOSITE
- DIMENSIONS ARE IN INCHES
- DRAWING NOT TO SCALE

## 400 SERIES : TOP JAMB INSTALLATION (PUSH SIDE)

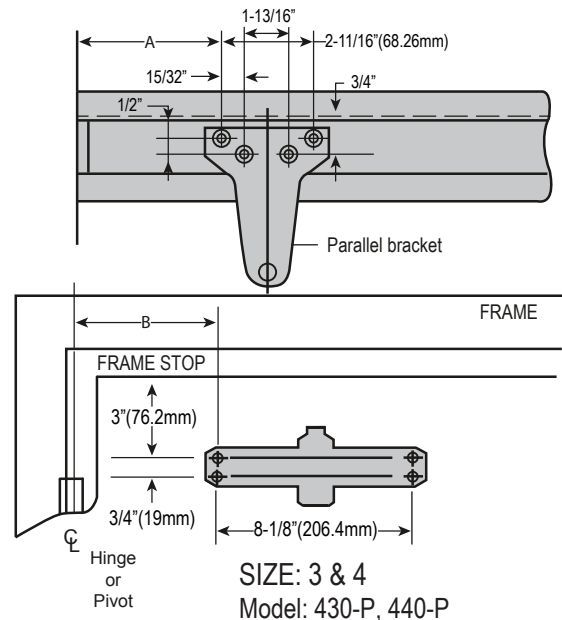
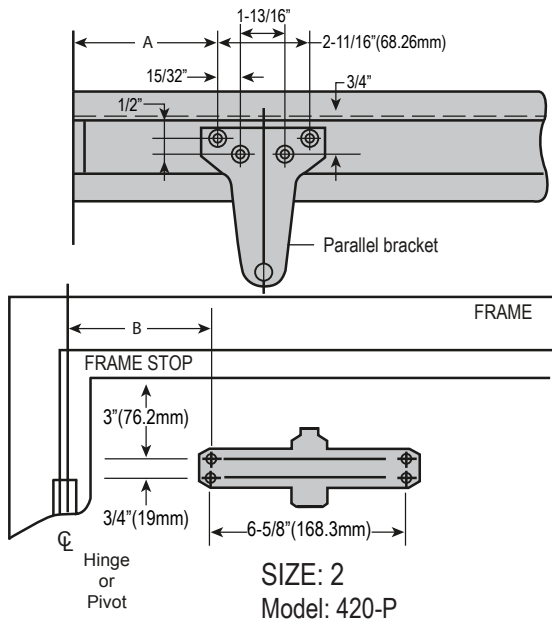


OPENING	DIM A SIZE 2	DIM B SIZE 3 & 4
120° - 180°	3-3/4" (95.25 mm)	3-1/8" (79.4 mm)
OVER 180°	2-9/16" (65 mm)	4-3/4" (120.1 mm)



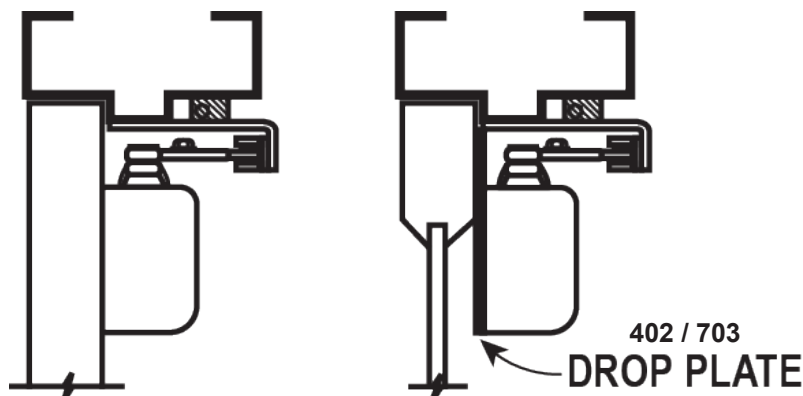
- LEFT HAND DOOR SHOWN
- RIGHT HAND DOOR OPPOSITE
- DIMENSIONS ARE IN INCHES
- DRAWING NOT TO SCALE

## 400 SERIES : PARALLEL ARM INSTALLATION (PUSH SIDE)



- LEFT HAND DOOR SHOWN
- RIGHT HAND DOOR OPPOSITE
- DIMENSIONS ARE IN INCHES
- DRAWING NOT TO SCALE

OPENING	DIM A SIZE 2	DIM B SIZE 2	DIM A SIZE 3 & 4	DIM B SIZE 3 & 4
120° - 180°	5-7/8" (149.2 mm)	4-11/16" (119 mm)	7-7/8" (200 mm)	6-11/16" (169.8 mm)
OVER 180°	4-11/16" (119 mm)	3-1/2" (88.9 mm)	6-11/16" (169.8 mm)	5-1/2" (139.7 mm)



402 - Flat Drop Plate for 420-P (size 2)

703 - Flat Drop Plate for 430-P (size 3) and 440-P (size 4)

## OPTIONAL INSTALLATION

<p><b>REGULAR ARM (PULL SIDE)</b></p>	<p><b>MAXIMUM OPENING: 180° (Standard), 120° (Hold Open)</b></p> <p><b>OPTIONAL INSTALLATION</b></p> <p><b>ARMS</b></p> <ul style="list-style-type: none"> <li>301 / 302- Hold-Open Arm with Parallel Bracket, Non-Handed with Stop in Soffit Shoe</li> </ul>		
<p><b>TOP JAMB (PUSH SIDE)</b></p>	<p><b>BRACKETS</b></p> <ul style="list-style-type: none"> <li>402 - Flat Drop Plate for 420-P (size 2)</li> <li>703 - Flat Drop Plate for 430-P (size 3) and 440-P (size 4)</li> </ul>		
<p><b>PARALLEL ARM (PUSH SIDE)</b></p>	<p><b>MAXIMUM OPENING: 180° (Standard), 120° (Hold Open)</b></p> <p><b>OPTIONAL INSTALLATION</b></p> <p><b>ARMS</b></p> <ul style="list-style-type: none"> <li>301 / 302- Hold-Open Arm with Parallel Bracket, Non-Handed with Stop in Soffit Shoe</li> </ul> <p><b>BRACKETS</b></p> <ul style="list-style-type: none"> <li>402 - Flat Drop Plate for 420-P (size 2)</li> <li>703 - Flat Drop Plate for 430-P (size 3) and 440-P (size 4)</li> <li>905 - Parallel Arm Bracket</li> </ul>		
			
<p><b>COV / 400</b></p>	<p><b>905</b></p>	<p><b>703</b></p>	<p><b>402</b></p>
<ul style="list-style-type: none"> <li>Plastic full cover</li> <li>Fits all sizes</li> <li>Shipped separately</li> </ul>	<ul style="list-style-type: none"> <li>Parallel arm bracket</li> <li>Non-handed</li> </ul>	<ul style="list-style-type: none"> <li>Flat drop bracket</li> <li>Non-handed</li> </ul>	<ul style="list-style-type: none"> <li>Flat drop bracket</li> <li>Non-handed</li> </ul>
			
<p><b>970138</b></p>	<p><b>970</b></p>	<p><b>706</b></p>	<p><b>301 / 302</b></p>
<ul style="list-style-type: none"> <li>Sex bolts for 1 3/4" doors</li> <li>Female part only</li> <li>1/4" - 20 (set of 4)</li> <li>For Steel Door Application</li> </ul>	<ul style="list-style-type: none"> <li>Sex bolts</li> <li>Female part only</li> <li>1/4" - 20 (set of 4)</li> <li>For Steel Door Application</li> </ul>	<ul style="list-style-type: none"> <li>Thru bolts and grommet nuts</li> <li>Set of 4</li> <li>For Wood and Aluminum Door Application</li> </ul>	<ul style="list-style-type: none"> <li>Hold-Open Arm and Parallel Bracket</li> <li>Forged Steel Constructions</li> <li>Non-handed</li> </ul>



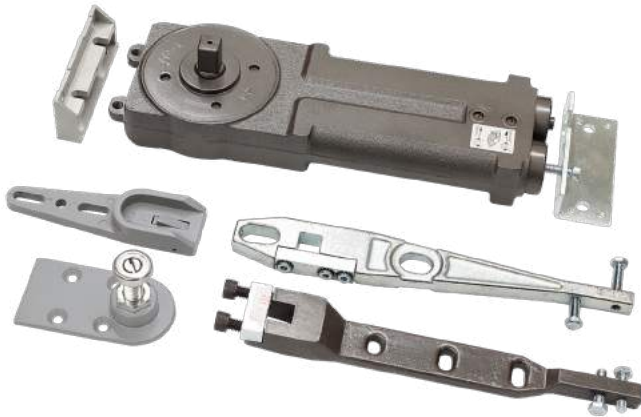
# 88 SERIES

ANSI A156.4 Grade 1, Concealed Overhead Door Closers  
with Fixed and Adjustable Power Spring



**10-YEAR**  
WARRANTY

**MEETS**  
*The Buy American Act*



- **Power Adjustable 1-4 ( Grade 1 )**
- **Meets both 5 and 8.5 lbs opening force for ADA**
- **Replacement for International, Calibre, and CR Laurence**

## FEATURES

- ANSI A156.4 **Grade 1**: UL Listed
- Cal-Royal's finest concealed overhead door closer series meeting the highest industry standards **Grade 1**.
- UL Listed for **fixed** size door closers. ( **Grade 1** )  
UL Listed 10c for **adjustable** door closers. ( **Grade 1** )
- **Center Hung Door Application**: Double or Single Acting ( applied door stop renders unit Single Acting ). Adjustable "S" type side loading or "A" type, "K" type, and "PT" type end loading arms are available for center pivoted door applications.
- **Offset Hung Door Application**: Single Acting Offset "JO" and "VO" type top arms are available for butt hung or offset pivoted applications.
- Available with 1/2", 3/4" long, and 7/8" extended spindles.

## FUNCTIONS

- Built-in positive Back Stop and Hold-Open positions are available:

105° Back Stop with Hold-Open  
105° Back Stop - no Hold-Open  
90° Back Stop with Hold-Open  
90° Back Stop - no Hold-Open

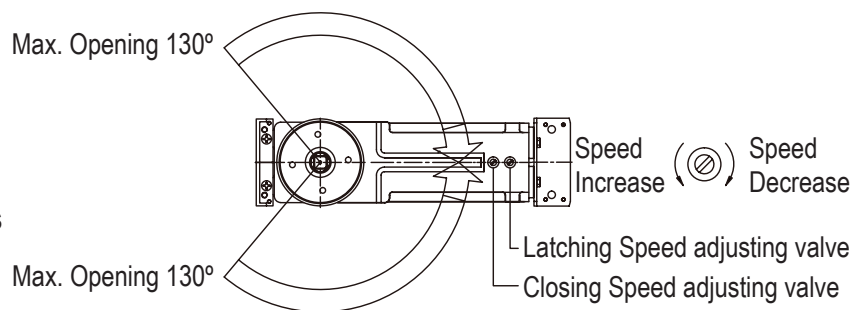
- Handicap (ADA) adjustable spring tensions available for use on center pivoted door applications:



5.0 lb. Opening Force (Center Hung Door)

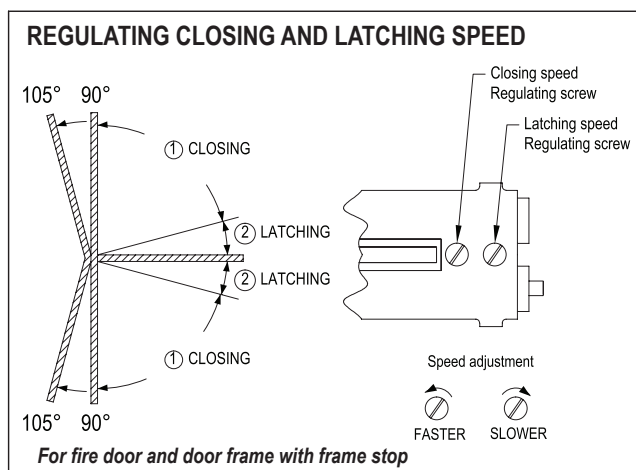
8.5 lb. Opening Force (Center Hung Door)

- Available also in **light, medium, heavy** standard Fixed Spring Tensions.

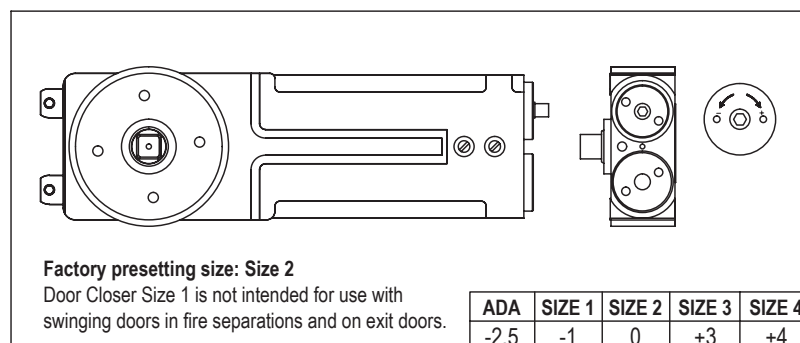


POWER SIZE	1	2	3	4
Max Door width [inches (mm)]	31 1/2 (800)	35 7/16 (900)	39 3/8 (1000)	43 5/16 (1100)
Max Door weight [lbs (kg)]	220 (100)			

## FEATURES



### POWER ADJUSTMENT



- **Dual Speed Control Valves:** Closing and Latching speeds controlled by separate regulating valves, fully adjustable after installation.
- Universal application. Non-handed for left or right door application.
- Adjustable dual purpose radial ball-bearing bottom pivot set is provided for floor or threshold mounted ( Side or End Loading ) center pivoted installation. Bottom pivot sets are optional, and must be ordered separately.
- Installs in an aluminum storefront header or transom as small as 1-3/4" x 4".
- Positive centering for alignment and to hold door closed against normal wind or draft conditions.

### Center Hung Doors

- Arm package complete units come standard with top arm assembly "S" ( side loading arm ) or "A", "K", and "PT" ( end loading arm ), adjustable dual purpose bottom pivot set, and anchor set with all fasteners ( 88-PV ).
- "JO" or "VO" type offset arms are optional, but must be specified. Specify finish ALUM or DURO.
- For optional pivots, suffix arm type ( "S", "A", "K" or "PT" ) and pivot type ( "88-G" or "88-GE" ) after **body part #** ( eg. **8840S + G** ) otherwise, shipped with adjustable dual purpose bottom pivot set, and anchor set with all fasteners ( 88-PV ).


### Offset Hung Doors

- Offset hung doors are single acting. Offset "JO" and "VO" type top arms are available for butt hinge or offset pivot applications.
- Offset pivots or Butt hinges not included.

## 88 SERIES: OVERVIEW INSTALLATION (TOP AND BOTTOM)

- Arm package complete units come standard with top arm assembly “S” side loading arm or “A”, “K”, and “PT” end loading arm, adjustable dual purpose bottom pivot set and anchor set with all fasteners.
- “JO” or “VO” type offset arms are optional, but must be specified. Specify finish **ALUM** or **DURO**.
- For optional pivots, suffix arm type ( “S”, “A”, “K” or “PT” ) and pivot type ( “88-G” or “88-GE” ) after **body part #** ( eg. 8840S + G ) otherwise, shipped with adjustable dual purpose bottom pivot set and anchor set with all fasteners ( 88-PV ).

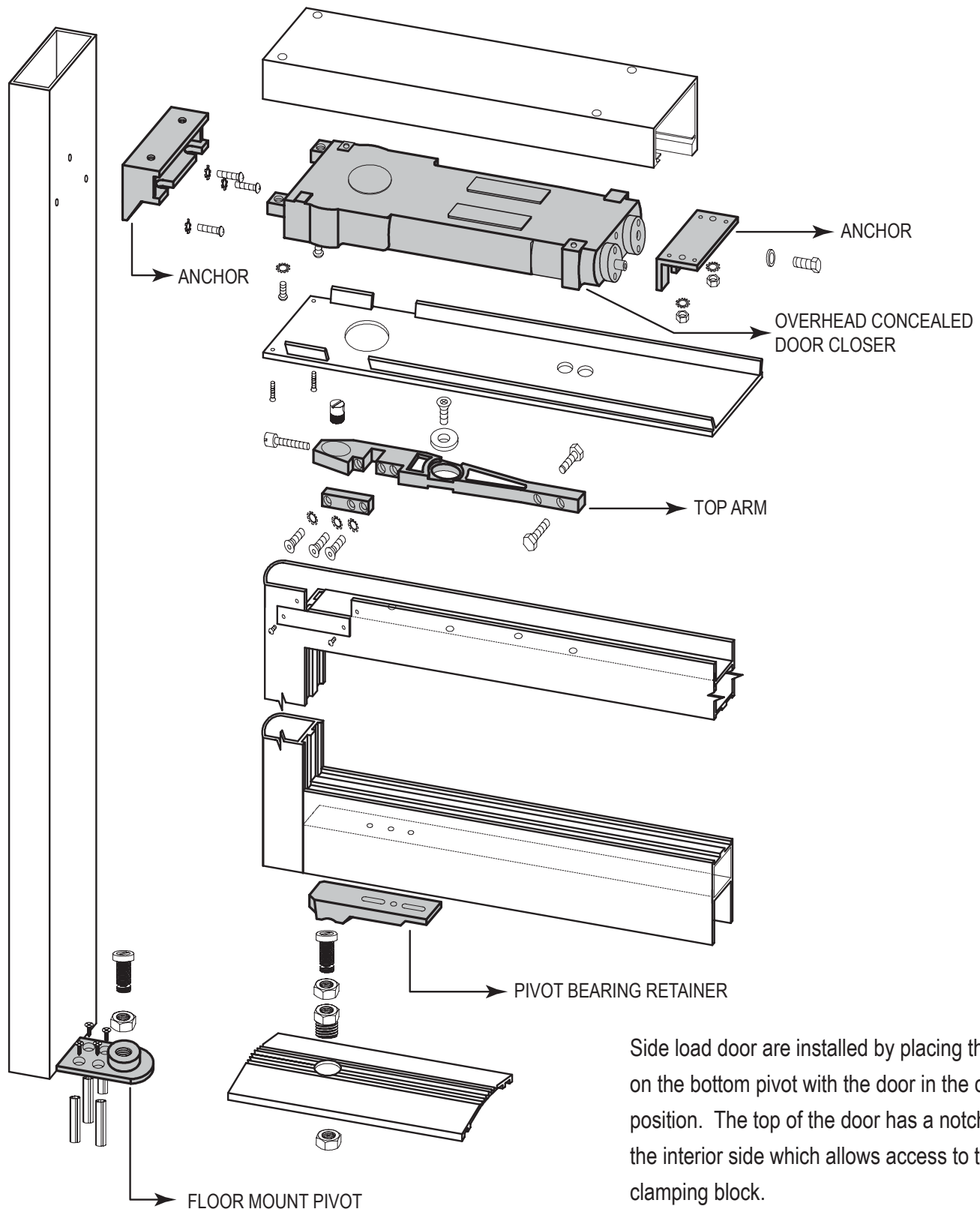
**STOCK ITEMS IN BOLD**  
**NON-STOCK ITEMS AVAILABLE WITH FACTORY LEAD TIME AND SUBJECT TO MINIMUM ORDER.**

DOOR SIZE	POWER SIZE	SPINDLE	HO / NHO	OPENING	BODY ONLY	ARMS Center Hung - Side Load	ARMS Center Hung - End Load			ARMS Offset Hung	
						1/2" Depth ("S" Type)	1" Depth ("A" Type)	5/8" Depth ("K" Type)	7/8" Depth ("PT" Type)	9/16" Depth ("JO" Arm)	7/8" Depth ("VO" Arm)
From 36" to 48" x 96"	Adjustable 1 - 4 ADA 5 lbs ( Interior ) ADA 8.5 lbs ( Exterior ) 	1/2"	HO	90°	8840	8840S	8840A	8840K	8840PT	NA	
				105°	8850	8850S	8850A	8850K	8850PT		
			NHO	90°	8820	8820S	8820A	8820K	8820PT		
				105°	8830	8830S	8830A	8830K	8830PT		
		3/4"	HO	90°	8809	8809S	8809A	8809K	8809PT		
				105°	8810	8810S	8810A	8810K	8810PT		
			NHO	90°	8811	8811S	8811A	8811K	8811PT		
				105°	8812	8812S	8812A	8812K	8812PT		
		7/8"	HO	90°	8800	8800S	8800A	8800K	8800PT		
				105°	8801	8801S	8801A	8801K	8801PT		
			NHO	90°	8802	8802S	8802A	8802K	8802PT		
				105°	8803	8803S	8803A	8803K	8803PT		
Up to 30" x 96"	Light	1/2"	HO	90°	8855	8855S	8855A	8855K	8855PT	8855JO	8855VO
				105°	8856	8856S	8856A	8856K	8856PT	8856JO	8856VO
			NHO	90°	8857	8857S	8857A	8857K	8857PT	8857JO	8857VO
				105°	8858	8858S	8858A	8858K	8858PT	8858JO	8858VO
31" to 41" x 96"	Medium		HO	90°	8859	8859S	8859A	8859K	8859PT	8859JO	8859VO
				105°	8860	8860S	8860A	8860K	8860PT	8860JO	8860VO
			NHO	90°	8861	8861S	8861A	8861K	8861PT	8861JO	8861VO
				105°	8862	8862S	8862A	8862K	8862PT	8862JO	8862VO
42" to 48" x 96"	Heavy		HO	90°	8863	8863S	8863A	8863K	8863PT	8863JO	8863VO
				105°	8864	8864S	8864A	8864K	8864PT	8864JO	8864VO
			NHO	90°	8865	8865S	8865A	8865K	8865PT	8865JO	8865VO
				105°	8866	8866S	8866A	8866K	8866PT	8866JO	8866VO

## 88 SERIES: PARTS AND ACCESSORIES

			
<b>8820</b> Power Adjustable size 1-4 1/2" Spindle, 90° Non-Hold Open max door weight 220 lbs Body only	<b>8830</b> Power Adjustable size 1-4 1/2" Spindle, 105° Non-Hold Open max door weight 220 lbs Body only	<b>8840</b> Power Adjustable size 1-4 1/2" Spindle, 90° Hold Open max door weight 220 lbs Body only	<b>8850</b> Power Adjustable size 1-4 1/2" Spindle, 105° Hold Open max door weight 220 lbs Body only
			
<b>8800</b> Power Adjustable size 1-4 7/8" Spindle, 90° Hold Open max door weight 220 lbs Body only	<b>8809</b> Power Adjustable size 1-4 3/4" Spindle, 90° Hold Open max door weight 220 lbs Body only	<b>8810</b> Power Adjustable size 1-4 3/4" Spindle, 105° Hold Open max door weight 220 lbs Body only	<b>8860</b> Medium Duty Fixed size 3 1/2" Spindle, 105° Hold Open max door weight 220 lbs Body only
			
<b>88-S</b> "S" Type Adjustable Side Loading Top Arm Assembly, 1/2" Depth Top Rail	<b>88-A</b> "A" Type Adjustable End Loading Top Arm Assembly, 1" Depth Top Rail	<b>88-PT</b> "PT" Type Adjustable End Loading Top Arm Assembly, 7/8" Depth Top Rail	<b>88-K</b> "K" Type Adjustable End Loading Top Arm Assembly, 5/8" Depth Top Rail
			
<b>88-VO</b> "VO" Type Offset Top Arm Assembly, Surface Type, 7/8" Depth Top Rail	<b>88-JO</b> "JO" Type Offset Top Arm Assembly, Mortise Type, 9/16" Depth Top Rail	<b>88-PV</b> Adjustable Dual Purpose Bottom Pivot Set	<b>88-G</b> Adjustable Floor Mount Bottom Pivot
			
<b>88-GE</b> Adjustable Threshold Mount Bottom Pivot	<b>88-ANC</b> Standard Adjustable Anchor Set	<b>88-FIX</b> Standard Fixed Anchor Set	

## 88 SERIES : EXPLODED VIEW



Side load door are installed by placing the door on the bottom pivot with the door in the closed position. The top of the door has a notch on the interior side which allows access to the clamping block.

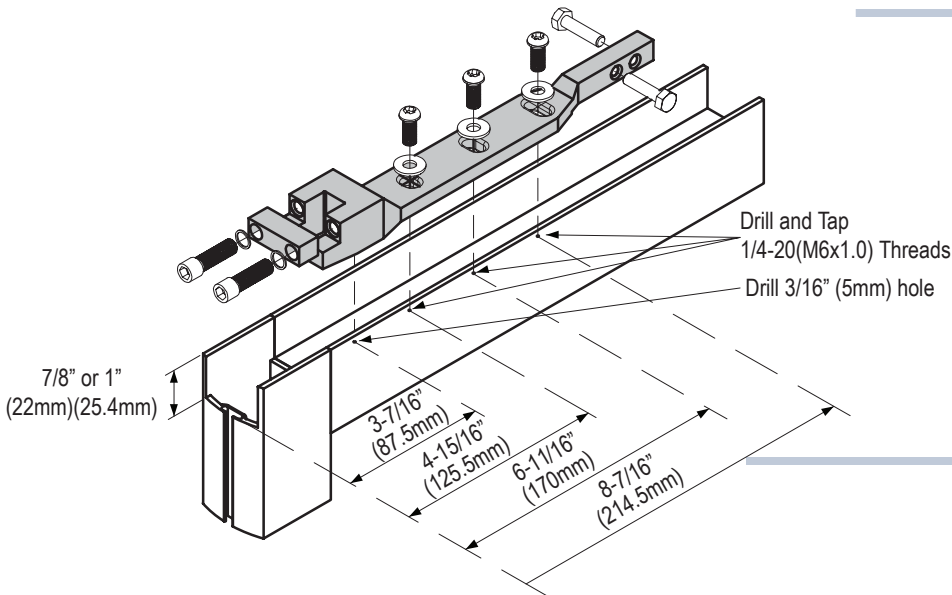
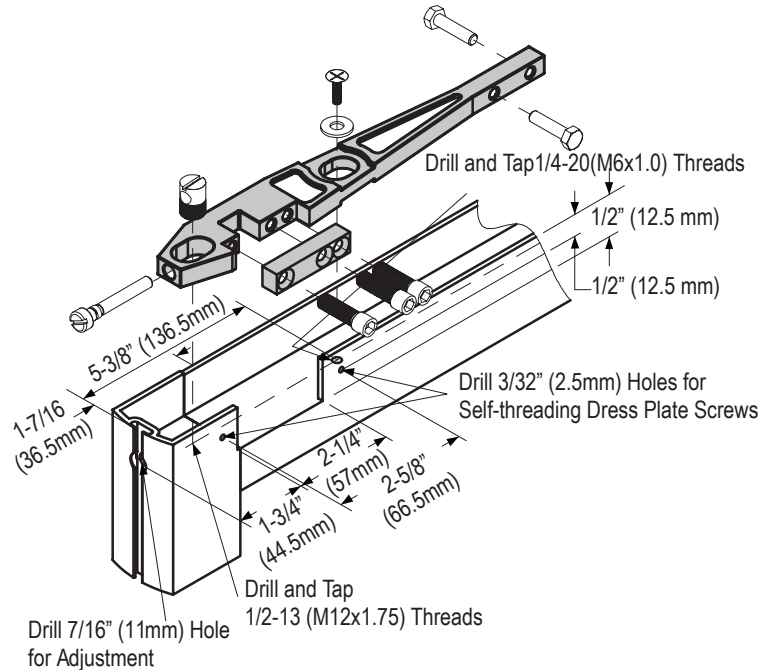


## 88 SERIES : ARM INSTALLATION FOR CENTER HUNG DOORS

### TOP DOOR RAIL

#### "S" Type Side Loading Arm

- Require minimal  $\frac{1}{2}$ " depth top door rail.
- Used with center hung doors.
- For center pivot applications.



### TOP DOOR RAIL

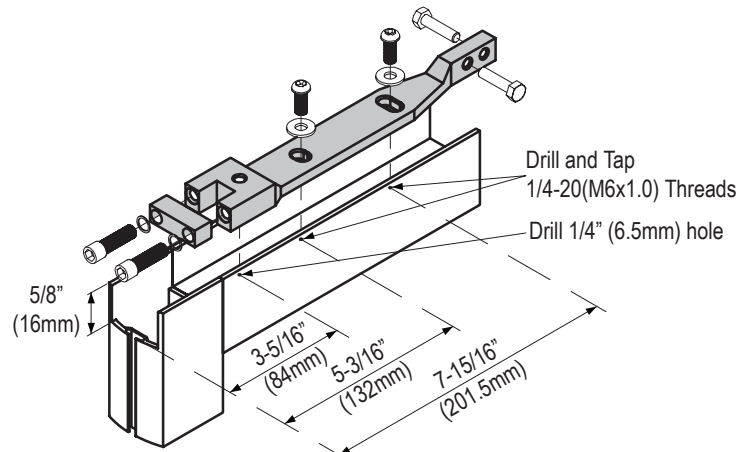
#### "A" and "PT" Type End Loading Arm

- "A" Type requires minimal 1" depth top door rail
- "PT" Type requires minimal  $\frac{7}{8}$ " depth top door rail
- Used with center hung doors
- For center pivot applications

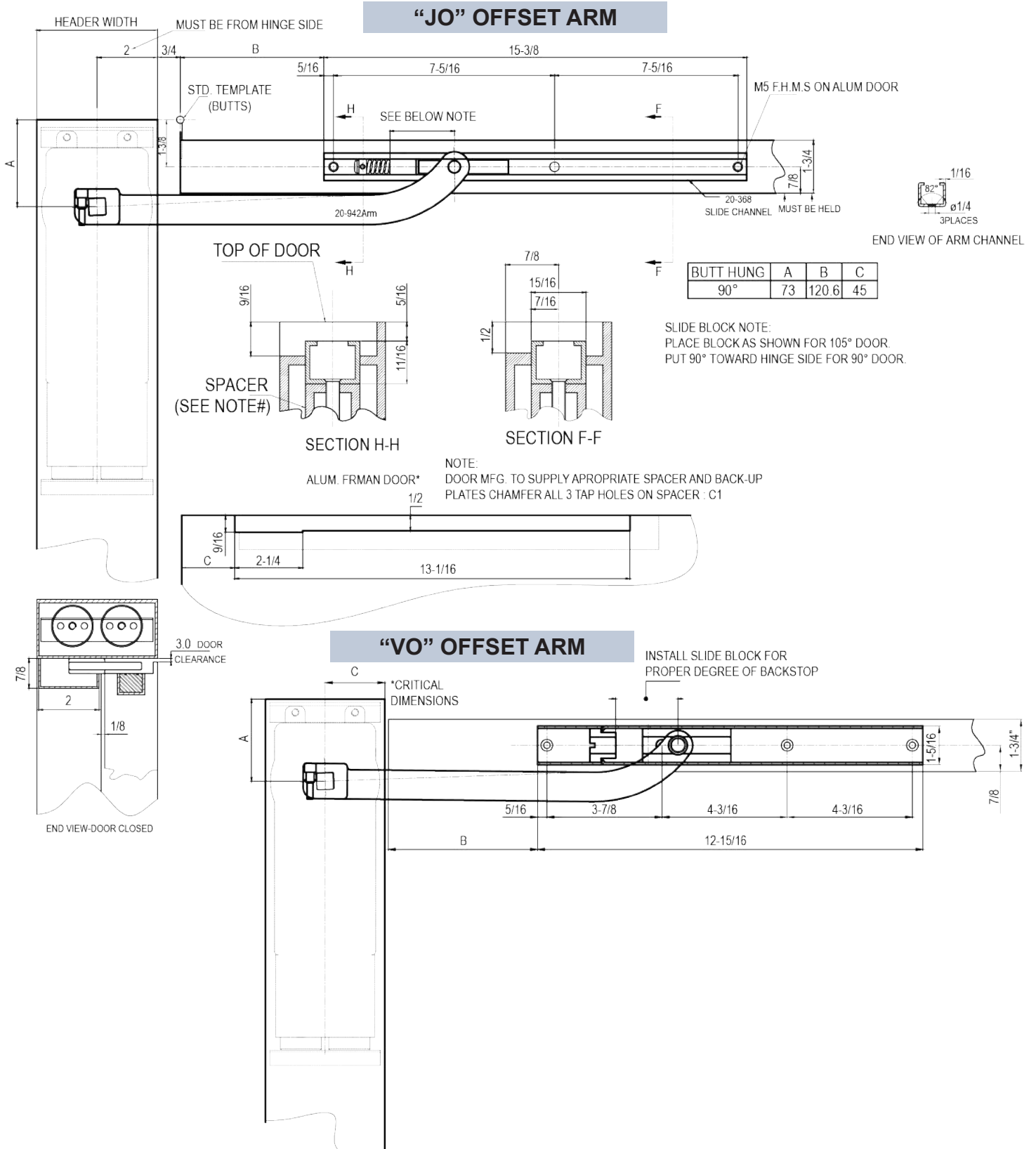
### TOP DOOR RAIL

#### "K" Type End Loading Arm



- Require minimal  $\frac{5}{8}$ " depth top door rail
- Used with center hung doors
- For center pivot applications



## 88 SERIES : ARM INSTALLATION FOR OFFSET HUNG DOORS



## 88 SERIES : COMPARISON CHART

DESCRIPTION		CAL-ROYAL	C.R. L.	DORMA	INTERNAT'L	CALIBRE	JACKSON	RIXON	LCN	Dor-O-Matic						
SIDE LOAD																
 ADJUSTABLE 1-4	1/2" Spindle	8840	CRL6760	RTS88 RTS88 BFI RTS88 BFE	202, 212 D312, D512	2202, 2212	101 Series	608	6030	12000, 22000 13000, 23000 14000, 24000						
		8820	CRL6762		203, 213 D313, D513	2203, 2213										
		8850	CRL6770		200, 210 D310, D510	2200, 2210										
		8830	CRL6772		201, 211 D311, D511	2201, 2211										
	3/4" Spindle	8809	CRL9760		---	---										
		8811	CRL9762		---	1133-20-A-DP										
		8810	CRL9770		D310-20-A-DP D510-20-A-DP	1140-20-A-DP										
		8812	CRL9772		D311-20-A-DP D511-20-A-DP	1141-20-A-DP										
	7/8"	8800	---		---	---										
	MEDIUM FIXED	1/2" Spindle	8860		CRL7770	230					2231					
END LOAD																
 ADJUSTABLE 1-4	1/2" Spindle	8840	CRL6760	RTS88 RTS88 BFI RTS88 BFE	D312, D512	2202, 2212	101 Series	700 800	6030	12000 13000 14000						
		8820	CRL6762		D313, D513	2203, 2213										
		8850	CRL6770		D510, D510	2200, 2210										
		8830	CRL6772		D511, D511	2201, 2211										
	3/4" Spindle	8809	CRL9760		---	---										
		8811	CRL9762		---	1133-20-A-DP										
		8810	CRL9770		D310-20-A-DP D510-20-A-DP	1140-20-A-DP										
		8812	CRL9772		D311-20-A-DP D511-20-A-DP	1141-20-A-DP										
	OFFSET SLIDE ARM															
	MEDIUM FIXED	1/2" Spindle	8860		---	RTS88					230	1130	201 Series	0608 0700	2030	22500 23500 24500

**Note:**

- Above listed door closers are comparable in specifications and features. Mounting hole dimensions and appearance may vary.
- Door closers may represent a series. Exact model may include size or function designation.

# DFG888 Concealed Glass Floor Door Closer

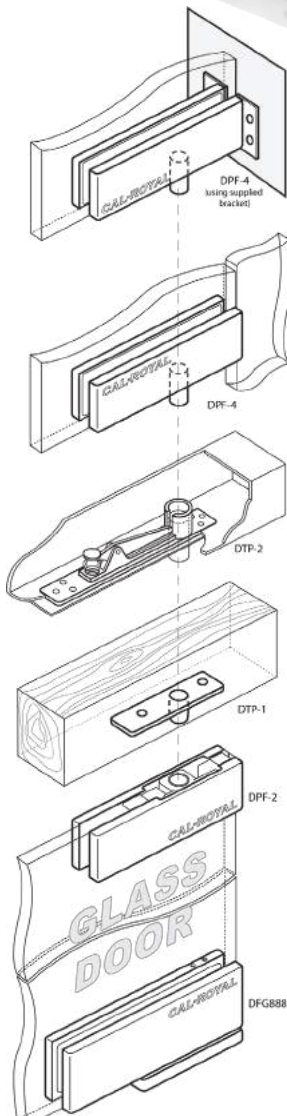
**5-YEAR  
WARRANTY**






- Standard Concealed Glass Floor Door Closer with Hold-Open
- Also available with Non Hold-Open option (DFG888-NHO)
- Quick and Easy Installation with Smooth Movement
- No Need to Have the Preset on the Floor
- Easy Installation with Base Seat Adjustable for  $\pm 0.12"$  ( $\pm 3\text{mm}$ ) Backward and Forward,  $\pm 0.12"$  ( $\pm 3\text{mm}$ ) Left and Right, and for 4° Alignment Adjustment

## FEATURES

- Suggested Door Width: 29.5" - 39.4" (750-1000mm)
- Door Weight: 220 lbs. (100kgs)
- Dimensions: Length: 7.32" (186mm)  
Width: 2.68" (68mm)  
Thickness: 1.42" (36mm)
- Angle of Opening: 150° for both left and right opening (double action)
- Closing Speed: Optional
- Braking Speed: Optional
- Hold-Open: 90°; Optional Non Hold-Open (DFG888-NHO)
- Stock Item with Hold-Open Feature
- Warranty: 5 Years



		
<b>DFG888-NHO</b>	<b>DPF-2</b>	<b>DPF-4</b>
<ul style="list-style-type: none"> <li>• Concealed Glass Floor Door Closer with Non Hold-Open feature</li> <li>• Non-Handed</li> </ul>	<ul style="list-style-type: none"> <li>• Top Patch (door)</li> <li>• Non-handed</li> </ul>	<ul style="list-style-type: none"> <li>• Over Panel Patch</li> <li>• Used on Glass Walls or Glass Overhead Panels</li> </ul>
		
<b>DTP-2</b>	<b>DTP-1</b>	
<ul style="list-style-type: none"> <li>• Optional Adjustable Top Pivot</li> <li>• Used on Hollow Door Frames</li> </ul>	<ul style="list-style-type: none"> <li>• Optional Top Pivot</li> <li>• Used on Solid Door Frames</li> </ul>	

# 8600 SERIES

## Exterior and Interior Automatic “Low Energy” Swing Door Operator



Cal-Royal Products, Inc. local manufacturing makes it easy to create automated entrances in a timely manner. Let us demonstrate our superior quality, service, support and custom capabilities on your next project. Cal-Royal brings you the professional support as the manufacturer. Whether your application involves a single automatic operator or a complete facility access, you can expect all phases of the project to be handled professionally.

Introducing our 8600 Series Automatic Swing Door Operator. A swing door operator is beneficial for any commercial, retail or industrial environment, bestowing any manual door with the complete effortless convenience of an automatic door.

Whether you need a door operator for ADA compliance, to improve traffic flow, or simply to heighten your patrons' experience, Cal-Royal Products, Inc. can provide a door operator system that is customized to suit your specific requirements.

With our door operators, you can turn virtually any swing door into an automatic door. Our swing door operators are perfect for transforming a manual door to an ADA compliant low energy automatic door.

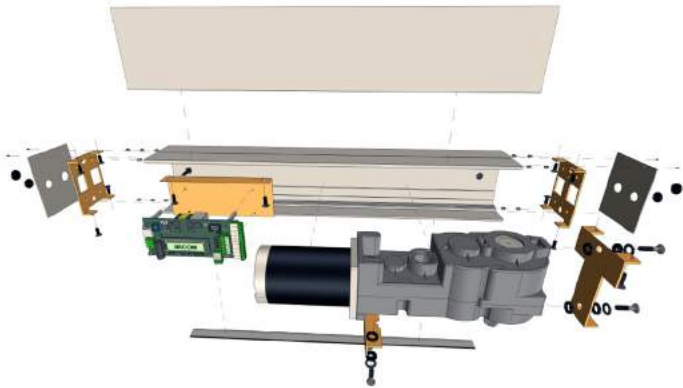
Compatible with wood, metal and glass doors. Allow for fast and easy retrofit installation.

Cal-Royal's mission is to make our customers' business as successful and profitable as possible. We want to be the preferred partner for distributors and the number one choice of end user customers by providing innovative products and technical expertise.

### MAIN FEATURES

- Optional Exterior / Interior Operations
- Interior Operator with Clutch System but without Wind Dampening feature
- Exterior Operator with Wind Dampening and Power Close with 5 force settings feature
- ADA Compliant and conforms to ANSI A156.19 / UL325 standards for door operators
- **700 lbs door capacity and 48" wide**
- Easy non-handed conversion, specify hand when ordering
- Programmable Controller with easy set up & programming
- Push & Go feature opens a door when pushed manually
- Obstacle Detection feature for open & closing ensures the safest use possible
- On Board Power Supply, 12/24 VDC 1.2A for strikes & latches
- Adjustable Closing & Opening Speeds
- Adjustable Closing Force
- Adjustable Latching Speed & Position
- Electrified Lock Input and Delay





## OPERATOR FEATURES

- Programmable controller with digital LED display. Simple easy to use interface for installation setup and programming.
- Selectable PUSH & GO feature with separate adjustable hold-open times engages automatic opening after pedestrian has manually moved the door.
- Built-in Obstacle Detection safety on opening and closing door operations that reverts direction of door to prevent pedestrian entrapment with up to 4 attempts.
- Selectable with 5 separate force settings during **Power Close\*** operation from fully open 90° position to fully closed.
- Electrified Lock Input option for selectable Fail Safe or Fail Secure electric strike operation.
- Electric Lock delay provides adjustable time delay of 0.2 to 2.0 sec. between activating the electric lock and the start of the opening cycle.
- **Wind Force Dampening\*** feature engages motor to reduce abrupt door speed to prevent damage to door, hinges and operator arms.
- Stack Pressure Compensation or adjustable force stack pressure feature engages power close operation during last 30° of swing.
- Before Open Latch Assist feature provides selectable power close of 2.0 sec "before open" latch assist to prevent binding of electric strike.
- Digital Impulse Signal Connection enables wet input for 12/24 VDC accessories providing impulse signals can connect direct to control board without costly relays.
- Blow Open for Smoke feature enables door to open when a signal is received from an alarm system allowing for air and smoke to be ventilated out.
- Electronic & Mechanical Stop feature are adjustable to prevent damage to door hinges, walls and operator arms.
- Presence Detector Input feature enables the operator to input 2 external safety sensors.
- Extendable Spindle feature makes it easy to extend spindle up to 3" for unique installations where the operator has to be mounted higher than typical installations.
- Reveal Push Side 14" Standard.
- 2-year warranty.

\* Not applicable for Interior Operator

## OPTIONS

- Single, pair (double swing) or double egress door operation
- Choice of in-swing, out-swing, left or right handed operation
- Header with complete front access
- Preset for left or right hand operation as ordered
- Finish options, Aluminum & Dark Bronze. Non stock finishes available with factory lead time, subject to minimum order. Consult factory.



## TECHNICAL SPECIFICATIONS

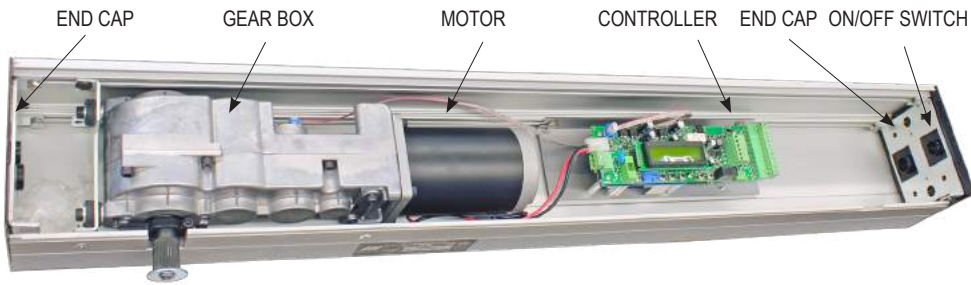
Application	Low Energy
Door Weight	<b>700 lbs (317kg) per leaf, 48" wide</b>
Dimensions (height & width)	5.5" (140mm) H x 4.5 (115mm) D
Standard Dimensions (length)	Single: 39", 45", & 51"; Double: 75", 87" & 99"
Net weight	16 kg (35 lbs) Approx
On Board Power Supply	On board 1.2A 12/24VDC
Consumption	100W Max
Motor rating	1/4 hp, 24VDC, 3A max
Rated operation	Continuous opening and closing cycles
Closing force	Adjustable pressure by spring tension
Operation during power failure	Low manual resistance when opened by hand. Door closing by spring.
Motor type	Low revolution, DC motor
Braking (Open back check & close latch)	Adjustable by Control Unit
Before Open Latch Assist	Selectable power close of 2.0 sec. "before open" latch assist to prevent binding of electric strike
Opening time, Full Closed to Back Check	Adjustable (Open Speed in 20 Steps)
Opening time, Back check to full open	Adjustable (Back Check Speed in 5 Steps / Back Check Distance in 15 Steps)
Closing time, Full open to latch	Adjustable (Close Speed in 15 Steps)
Closing time, Latch to full closed	Adjustable (Latch Speed in 5 Steps / Latch Distance in 15 Steps)
Hold open	Pulsed Energy to Motor. No overheating. Continuous Hold Open
Obstacle detection (without safety sensor)	Opening: If door detects an obstacle, power is cut to motor. (Sensitivity adjustable by 'Current Overload' setting) Door will close by spring power at low speed.
Obstacle detection (with safety sensor)	Safety sensor connected to Safety 1 input will prevent a door opening or prevent the door to go in the closing cycle when the safety sensor is active. Safety sensor connected to Safety 2 input will stall or crawl (Installer selectable) the door when the safety sensor is active.
Operating environment	Ambient temperature -18 deg ~ +50 deg. (no condensation or icing)
	Ambient humidity 30% to 85%RH (no hazardous materials must be present in the atmosphere)

For Interior Operator, prefix INT + Item No. + Length + Finish.

# 8600 SERIES

**CAL-ROYAL**  
PRODUCTS, INC. U.S.A.

## MAJOR COMPONENTS DIAGRAM

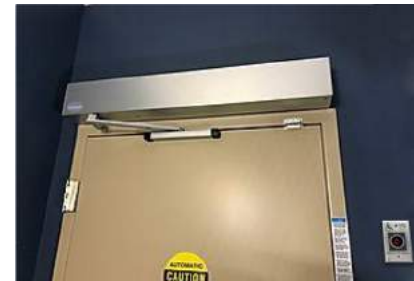


## ARM AND TRACK ASSEMBLIES

ILLUSTRATION	DESCRIPTION	ITEM NO
	STANDARD PUSH ARM NON-HANDED FOR 0" TO 14" REVEAL	8622-ARM
	PUSH ARM EXTENSION NON-HANDED FOR 14" TO 20" REVEAL	8623-EXT
	ANGLE PULL ARM (RIGHT) HANDED FOR 0" TO 4" REVEAL	8624-RH
	ANGLE PULL ARM (LEFT) HANDED FOR 0" TO 4" REVEAL	8625-LH
	OPTIONAL STRAIGHT PULL ARM NON-HANDED FOR 0" TO 6" REVEAL	8626-ARM

### STICKERS

Comes with every purchase of an operator.



### AVAILABLE FOR BOTH EXTERIOR AND INTERIOR OPERATIONS

UNIQUE FEATURES	EXTERIOR	INTERIOR
Wind Force Dampening feature engages motor to reduce abrupt door speed to prevent damage to door, hinges and operator arms.	YES	NO
Selectable with 5 separate force settings during Power Close operation from fully open 90° position to fully closed.	YES	NO
Clutch System allows motor to disengage in the event of power failure resulting in a smooth and light manual opening and closing of door.	NO	YES

## COMPETING PRODUCTS COMPARISON

Cal-Royal	Dorma	Norton	Assa Abloy	Hager	LCN	LCN	Record
8600	ED900	6000/6300	SW200i	8400	4630/4640	9540/9130	6100/6200

APPLICATIONS: GOVERNMENT ♦ HEALTHCARE ♦ EDUCATION ♦ RETAIL ♦ MULTI-FAMILY ♦ SECURITY ENTRANCES ♦ HOTELS ♦ RESTAURANTS ♦ OFFICE BUILDINGS ♦ BANKS



# 8600 SERIES APPLICATION

ITEM NO	HANDING	TYPE	ILLUSTRATION		DESCRIPTION
8601	LHR	Single			<b>SINGLE OPERATOR STANDARD PUSH ARM, 0"- 14" REVEAL</b> (must order 8622EXT for 14"-20" reveals) Length: 39" , 45" and 51" Handing: LHR or RHR Finish: Alum or Dark Bronze
8602	RHR				<b>SINGLE OPERATOR STANDARD PULL ANGLE ARM, 0"- 4" REVEAL</b> Length: 39" , 45" and 51" Handing: LH or RH Finish: Alum or Dark Bronze
8603	LH				<b>SINGLE OPERATOR OPTIONAL PULL STRAIGHT ARM, 0"- 6" REVEAL</b> Length: 39" , 45" and 51" Handing: LH or RH Finish: Alum or Dark Bronze
8604	RH				
8605	LH				<b>SIMULTANEOUS or INDEPENDENT PAIR STANDARD PUSH ARM, 0" - 14" REVEAL</b> (must order 8622EXT for 14"-20" reveals) Length: 75", 87" and 99" Handing: RHR and LHR; Finish: Alum or Dark Bronze
8606	RH				<b>SIMULTANEOUS or INDEPENDENT PAIR PULL ANGLE ARM, 0" - 4" REVEAL</b> Length: 75", 87" and 99" Handing: LH and RH Finish: Alum or Dark Bronze
8607	LHR/RHR	Simultaneous or Independent Pair			<b>SIMULTANEOUS or INDEPENDENT PAIR PULL STRAIGHT ARM, 0" - 6" REVEAL</b> Length: 75", 87" and 99" Handing: LH-RH Finish: Alum or Dark Bronze
8608	LH/RH	Simultaneous or Independent Pair			<b>DOUBLE EGRESS PAIR STANDARD PUSH ARM - PULL ANGLE ARM (Left or Right)</b> Length: 75", 87" and 99" Handing: LH-RHR, LHR-RH Finish: Alum or Dark Bronze
8610	LH/RHR	Simultaneous or Independent Pair			<b>DOUBLE EGRESS PAIR STANDARD PUSH ARM - PULL STRAIGHT ARM</b> Length: 75", 87" and 99" Handing: LH-RHR, LHR-RH Finish: Alum or Dark Bronze
8611	LHR/RH				
8612	LH/RHR	Simultaneous or Independent Pair			
8613	LHR/RH	Simultaneous or Independent Pair			

Pairing selection (Simultaneous or Independent) performed electronically at time of installation.

**\*\*Must specify ITEM NO + LENGTH + FINISH when ordering. EXAMPLE: 8601-39 ALUM**

**\*\*for Optional Interior Operator, prefix "INT" before item #. EXAMPLE: INT8601-39 ALUM**

**LENGTH = door width + 3" in most applications**



## ACTUATORS & ACCESSORIES

### PUSH PLATES 4.5" SQUARE HARD WIRED or WIRELESS



8636-SW

- 4.5 inch square stainless steel push plate
- Blue handicap logo only
- Available in Pair, Hard Wired, Item No 8650-KIT
- Available in Pair with Wireless Radio Kit, Item No 8651-KIT
- (1) 8636-SW, Stainless steel push plate
- (1) 8636-SM, 4.5" square surface mount box

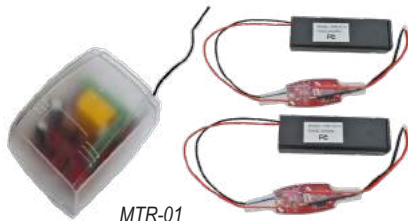
### PUSH PLATES 6" ROUND HARD WIRED or WIRELESS



8637-SW

- 6 inch round stainless steel push plate
- Blue handicap logo
- Available in Pair, Hard Wired, Item No 8650-KIT
- Available in Pair with Wireless Radio Kit, Item No 8651-KIT
- (1) 8637-SW, 6" Stainless steel push plate
- (1) 8637-SM, 6" round surface mount box

### WIRELESS RADIO KIT



MTR-01

- RADIO KIT eliminates the hassle of wiring from actuator to controller.
- Federal Communications Commission (FCC) Approved
- For use with 8636-SW and 8637-SW for conversion or replacement
- (1) Receiver, 433 Mhz
- (2) Transmitters, 433 Mhz

PUSH RHR



PULL RH



DOUBLE EGRESS LHR/RH



### VERTICAL ACTUATOR BAR HARD WIRED OR WIRELESS



ACT-36

- Exceeds California Building Code Section 1117B.6
- Weather Resistant, stainless steel construction
- Membrane switches provide quiet & reliable activation
- Entire surface provides activation from any angle
- Can be mounted on a wall or to a bollard
- 6" W x 36" H x 1" Thick
- ACT-36, 36" Hardwired, txt & logo
- ACT-900, 36" Wireless, 900 MHz

### INFRARED SAFETY SENSOR, HARD WIRED



SCAN-8660

- Low profile design reduces accidental damage
- Can be mounted horizontal or vertical
- Detects the presence of a pedestrian, while the door is opening or closing using triangulation
- Length: 34.5 inches
- Power: 12/24 VAC / VDC
- SCAN-8660, Door Mounted, active infrared safety sensor

# 8600 SERIES: ACCESSORIES

## ACTUATORS & ACCESSORIES

### TOUCHLESS SWITCH, HARD WIRED



CTB-01

- Touchless, wave to open switch
- Active Infrared Sensing Technology, 1"- 5" range
- 2" x 4", Stainless Steel
- Fits in a single gang electrical box
- Power: 12/24V DC
- **CTB-01, 2.75" x 4.5", 1-gang, Text, Logo & Hand**

### TOUCHLESS SWITCH, HARD WIRED



CTB-02

- Touchless, wave to open switch
- Active Infrared Sensing Technology, 1"- 5" range
- 4.5" x 4.5", Stainless Steel plate with surface mount plastic box
- Power: 12/24V DC
- **CTB-02, 4.5" x 4.5" Square, Text, Logo & Hand**

### TOUCHLESS SWITCH, HARD WIRED



CTB-03

- Touchless, wave to open switch
- Active Infrared Sensing Technology, 1"- 6" range
- 4.5" x 4.5", Stainless Steel & Glass plate with surface mount plastic box
- Power: 12/24V AC/DC
- **CTB-03, 4.5" x 4.5" Square, Text & Hand**

### TOUCHLESS SWITCH, HARD WIRED



CTB-05

- Infrared Photoelectric Reflective Sensor Switch
- 2"- 8" range, With Red/Green LED indicator
- Adjustable timer delay function, 0.5 to 20 sec.
- 1.5" x 4.5", Stainless Steel
- Fits in a standard jamb size electrical gang box
- Power: 12/24V DC
- **CTB-05, 1.5" x 4.5", single gang, Text & Hand**

### TOUCHLESS SWITCH, HARD WIRED



CTB-07

- Infrared Photoelectric Reflective Sensor Switch
- 2"- 8" range, With Red/Green LED indicator
- Adjustable timer delay function, 0.5 to 20 sec.
- 4.5" x 4.5", Stainless Steel plate with surface mount plastic box
- Power: 12/24V DC
- **CTB-07, 4.5" x 4.5" Square, Text, Logo & Hand**

### TOUCHLESS SWITCH, WIRELESS



CTW-02

- Touchless, wave to open switch
- Active Infrared Sensing Technology, 1"-3" range
- 4.5" x 4.5", Composite Surface
- With built in radio transmitter
- Sold per pair (2 Switches & 1 Receiver)
- Power: 12/24V DC
- **CTW-02, 4.5" x 4.5" Square, Logo**

### TOUCHLESS SWITCH, HARD WIRED



8630SW 8631SW 8632SW

- Utilizes microwave motion technology
- 2" to 24" detection range
- Audible and visual alert indications of activation
- Power: 12/24V AC/DC
- **8630SW, 4.5" x 4.5", double gang, Text & Hand**
- **8631SW, 4.5" x 2.75", single gang, Text & Hand**
- **8632SW, 4.5" x 1.68", Text & Hand**
- **8640-SM, double gang, surface mount box**
- **8641-SM, single gang, surface mount box**
- **8642-SM, 1.5" x 4.75" jamb surface mount box, Hardwired solutions only**

### TOUCHLESS SWITCH, HARD WIRED



8633-SW

- Utilizes microwave motion technology
- Adjustable from 4" to 24" range
- Microwave cell can be mounted behind drywall
- Comes with both single gang and double gang faceplates
- Power: 12/24V AC/DC
- **8633-SW, Microwave Cell Switch, with Single and Double gang BLACK faceplate, Text & Hand**
- **8641-SM, Single gang, surface mount box**
- **8640-SM, Double gang, surface mount box**

### TOUCHLESS SWITCH, SHORT RANGE HARD WIRED



8634-SW

8635-SW

- Utilizes capacitance technology
- Short range detection zone reduces unwanted activations
- Touchless design reduces the spread of bacteria, disease and contamination
- Power: 12/24V AC/DC
- **8634-SW, 6" Round, Text, Logo & Hand**
- **8635-SW, 4.75" Square, Text, Logo & Hand**

Cal-Royal Products, Inc. reserves the right to, and may, on occasions, make changes and/or improvements in design, dimensions and technical specifications without prior notice.

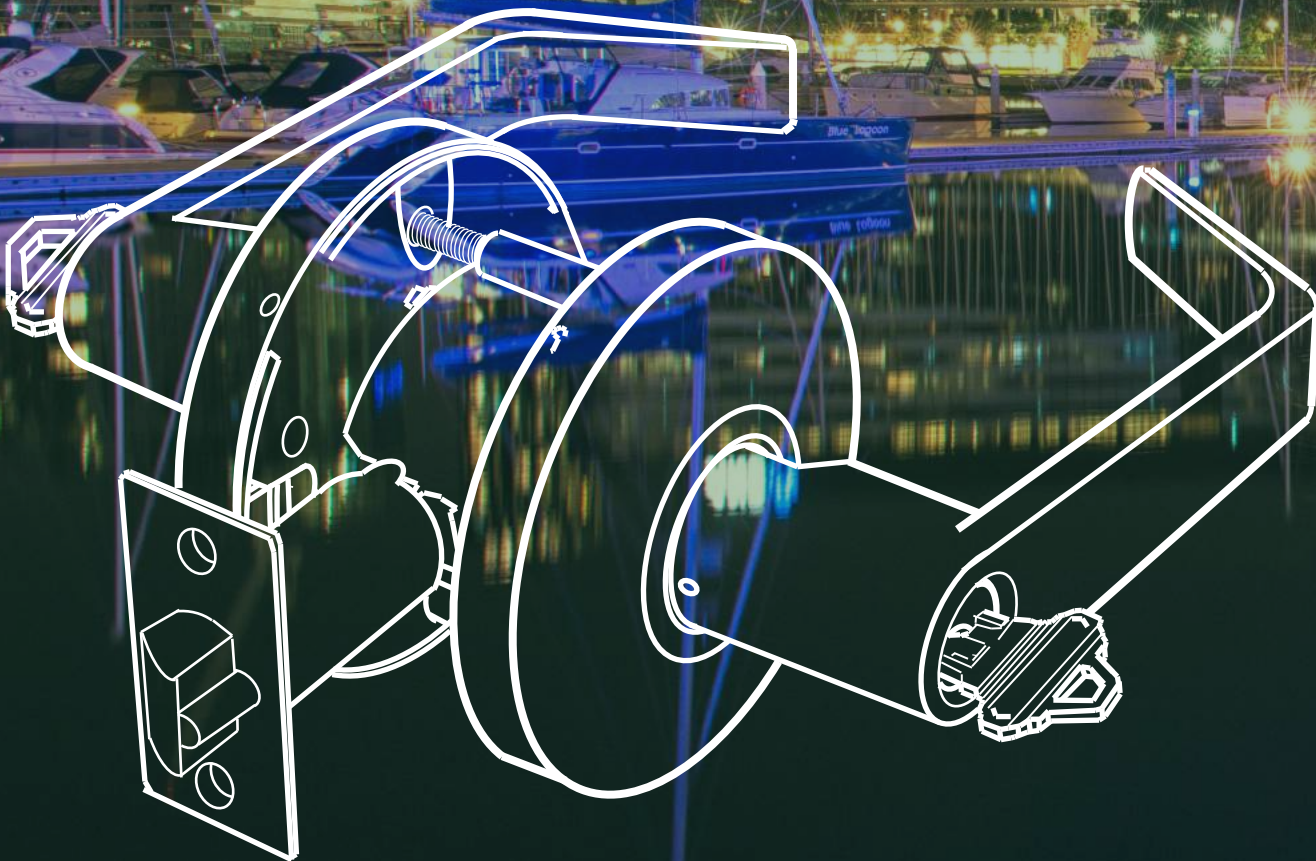


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# LOCKSETS

LOCKSETS





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### III. GRADE 3

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# CAL-ROYAL

PRODUCTS, INC. U.S.A.



## NM and WI SERIES

### EXTRA HEAVY DUTY MORTISE LOCKS

### GRADE 1





# NM SERIES

Extra Heavy Duty Mortise Locks  
ANSI BHMA A156.13 - 2017  
Grade 1

**LIFETIME  
WARRANTY**

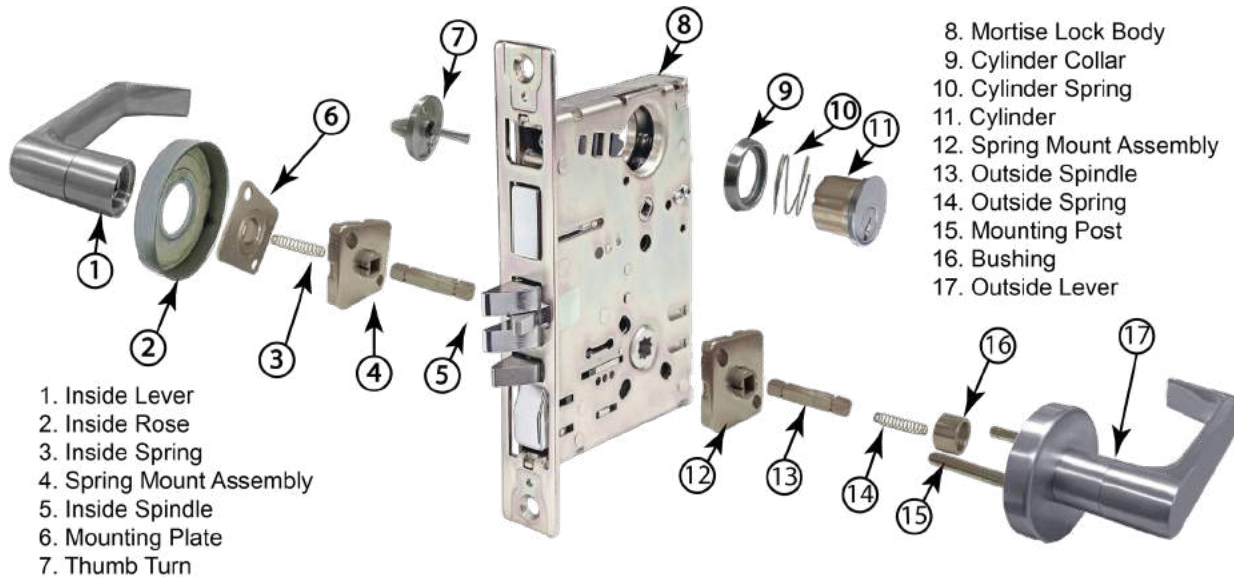
**BHMA<sup>TM</sup>**  
**CERTIFIED**  
Be Safe. Be Secure. Look for the Mark.



**UL**  
3 HOUR FIRE RATED  
UL10C, UBC7-2-1997



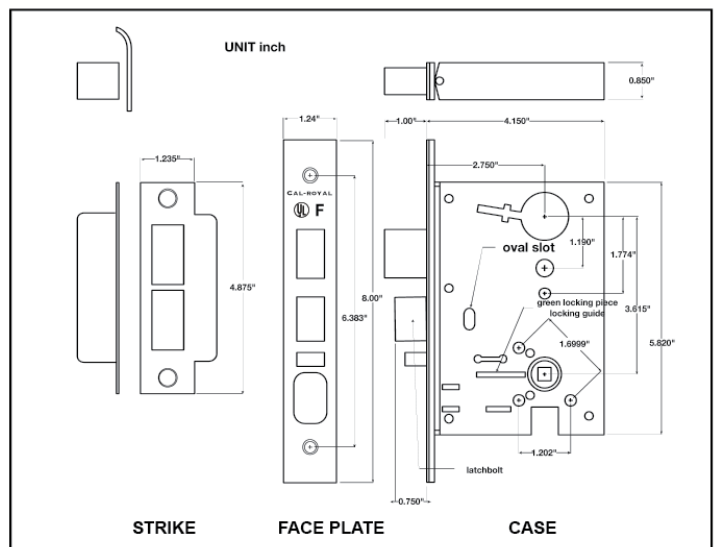
**MEETS**  
*The Buy American Act*



## FEATURES & SPECIFICATIONS

<b>For Doors.....</b>	1 3/4"
<b>Backset.....</b>	2 3/4"
<b>Lockcase.....</b>	Heavy gauge zinc chromate steel
<b>Front.....</b>	Heavy gauge steel 8" x 1 1/4" x 3/32". Accommodates flat doors and doors beveled 1/8" in 2"
<b>Armored Front.....</b>	Wrought brass attached by machine screws to lock case front
<b>Deadbolt.....</b>	1" throw, brass chrome-plated with hardened steel rollers
<b>Guard Bolt.....</b>	Extruded brass, chrome plated
<b>Stop Works.....</b>	Rocker type, brass, chrome-plated
<b>Strikes.....</b>	Brass, non-handed curve strike 4 7/8" x 1/4". Curved-up strike available upon request
<b>Handing.....</b>	Handed. Easily field-reversible
<b>Trim.....</b>	As specified
<b>Cylinder.....</b>	As specified
<b>Keyway.....</b>	As specified
<b>Finishes.....</b>	As specified
<b>UL Listing.....</b>	UL Listed "A" Label (3 hours), for use on fire doors, single or pair of doors. "F" mark stamped on strike
<b>ANSI / BHMA.....</b>	Meets ANSI / BHMA A156.13, Series 1000, Operational & Security Grade 1 Standards. Lock body conforms to Federal Specification Type 86; and all dimensional and operational performances, Exceeds 1,000,000 cycles

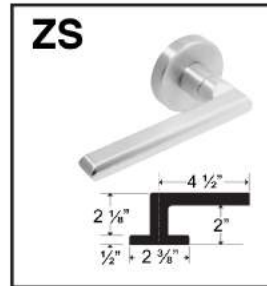
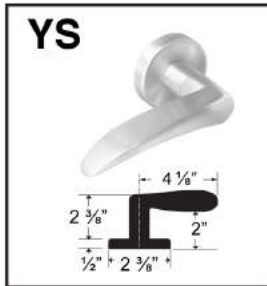
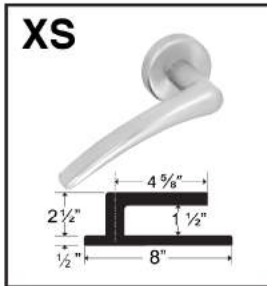
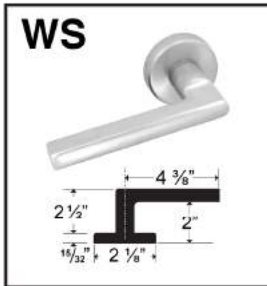
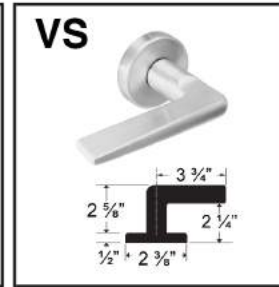
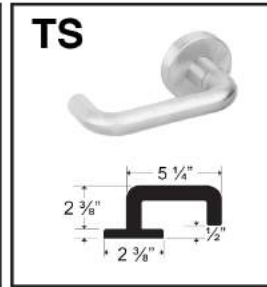
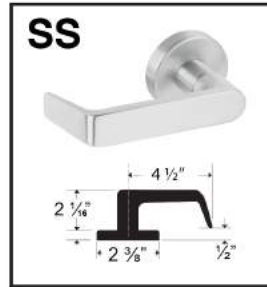
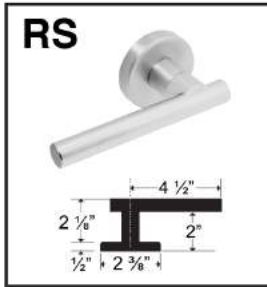
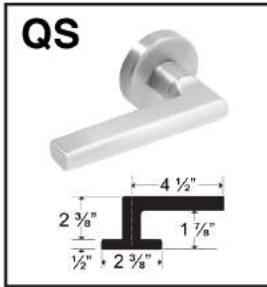
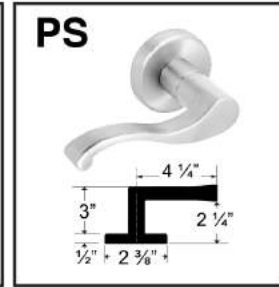
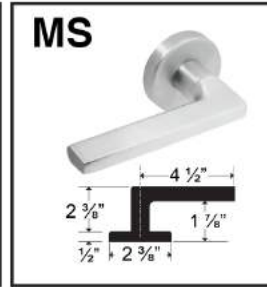
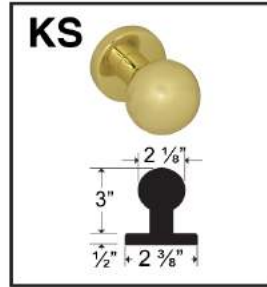
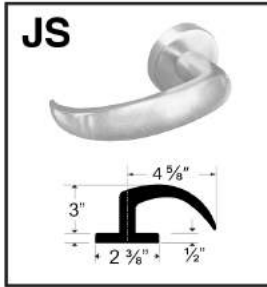
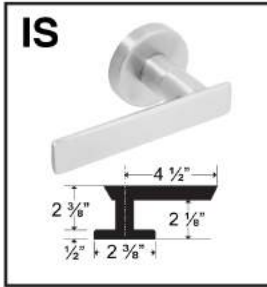
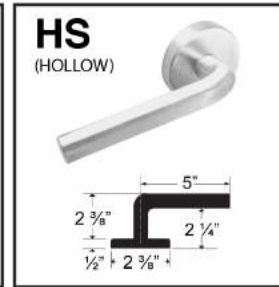
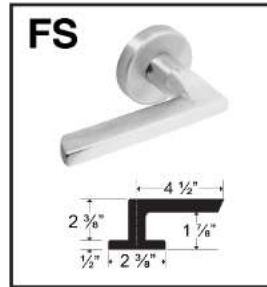
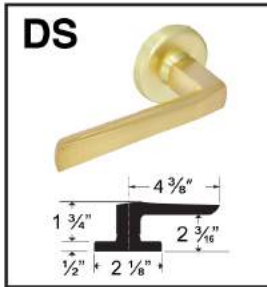
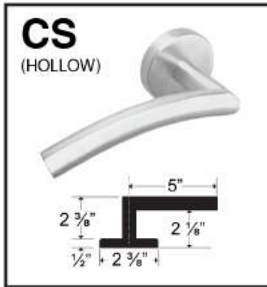
- 100% internal parts quality inspection provides security, reliability and durability
- Available with Best, Falcon and Arrow (Small Format IC), Schlage, Corbin / Russwin, Sargent, and Yale Interchangeable core.
- ICSC - Schlage LFIC
- ICCR - Corbin / Russwin LFIC
- ICSR - Sargent LFIC
- ICYA - Yale LFIC
- Electrified Locks available.





# NM SERIES

## SECTIONAL TRIMS & FINISHES

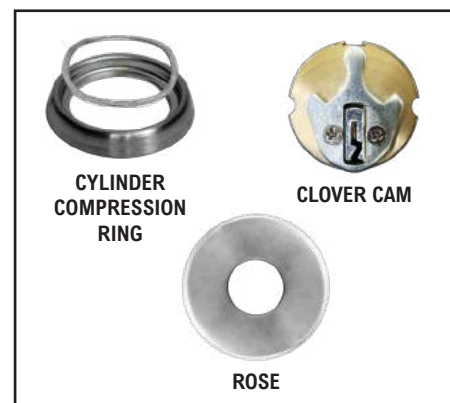
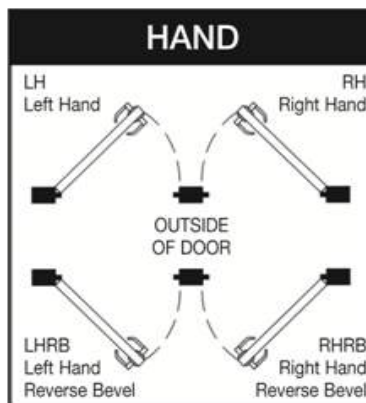


ITEM	MATERIAL
Rose	Brass / Stainless Steel
Levers	Brass / Zinc / Stainless Steel
Escutcheons	Brass / Zinc / Stainless Steel







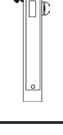
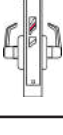
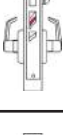

FINISHES		
Symbol	BHMA	Description
US3	605	Polished Brass
US4	606	Satin Brass
US10	612	Satin Bronze
US10B	613	Oil Rubbed Bronze
US19	622	Flat Black Coated
US26D	626	Satin Chrome
US26	625	Polished Chrome
US32D	630	Stainless Steel











**MEETS**  
*The Buy American Act*

**LIFETIME WARRANTY** **BHMA<sup>TM</sup>**  
**CERTIFIED**  
Be Safe. Be Secure. Look for the Mark.







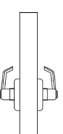

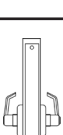







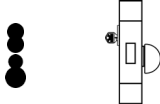
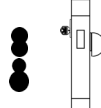
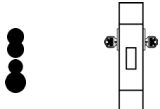
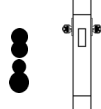
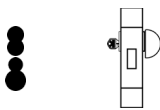
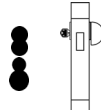
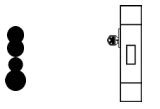
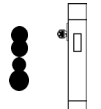







OUTSIDE	INSIDE	SERIES / FUNCTION	TYPE	ANSI	FUNCTION DESCRIPTION
		NM8050	Office / Entrance	F04	Latch bolt retracted by key outside and inside lever when outside lever is locked. Outside lever retracts latch bolt unless outside lever is locked by operating toggle button. Outside lever is locked and unlocked by toggle button. Key outside locks outside lever only. When latch bolt is retracted by inside lever, outside lever remains locked. Auxiliary latch deadlocks latch bolt when door is closed. Inside lever is always free for immediate exit.
		NM8056	NM8050 with Automatic Unlocking	---	Latch bolt retracted by knob / lever from either side unless outside is made inoperative by key outside or by rotating inside thumbturn. Outside knob / lever unlocked by key outside or thumbturn. Rotating inside knob / lever simultaneously retracts latch bolt and unlocks outside knob / lever. Auxiliary latch deadlocks bolt when door is locked. Inside knob / lever is always free of immediate egress.
		NM8070	Classroom	F05	Outside key locks and unlocks outside lever. Outside lever retracts latch bolt unless outside lever is locked by key. When outside lever is locked, unlocked from outside by key or by inside lever. Inside lever is always free for immediate exit. Auxiliary latch deadlocks latch bolt when door is closed.
		NM8071	Classroom Security Lock	F32	Latch bolt retracted by knob / lever from either side unless outside is locked by key from either side. When outside lever is locked, latch bolt is retracted by key outside or lever inside. Turning key from either side locks and unlocks outside lever. Auxiliary latch deadlocks latch bolt when door is locked. Inside knob / lever is always free for immediate egress.
		NM8457	Classroom Security Lock w/ Deadbolt	F33	Latch bolt retracted by outside lever from either side unless outside lever is locked by key from inside or outside. Deadbolt projected or retracted by key outside. Operating inside lever retracts both deadbolt and latch bolt simultaneously and unlock outside lever. Inside knob / lever is always free for immediate egress.
		NM8458	Classroom Security Lock w/ Deadbolt and Auxiliary Latch	F34	Latch bolt retracted by lever from either side unless outside lever is locked from inside or outside by key. Deadbolt projected or retracted by key outside. Operating inside lever retracts both bolts and unlocks outside lever. Auxiliary latch deadlocks latch bolt when door is closed or latch bolt deadlocks when deadbolt is projected. Inside lever is always free for immediate egress.
		M8463	Classroom Lock	F29	Deadbolt thrown or retracted by key from outside. Inside thumbturn cylinder retracts deadbolt but cannot project it.
		NM8080	Storeroom	F07	Latch bolt operated by key from outside or rotating inside lever, outside lever is always inoperative. Auxiliary latch deadlocks latch bolt when door is closed. Inside lever is always free for immediate egress.
		NM8480	Storeroom Lock with Deadbolt	---	Latch bolt retracted by key outside or by lever or knob inside. Outside knob / lever is always fixed. Deadbolt thrown or retracted by key outside or thumbturn inside. Turning inside knob / lever simultaneously retracts both deadbolt and latch bolt. Auxiliary latch deadlocks latch bolt when door is closed. Inside knob / lever is always free for immediate egress.
		NM8453	Entrance	F20	Latch bolt retracted by lever from either side unless outside lever is locked by operating toggle button. Deadbolt projected by key from outside or by thumbturn from inside. Both deadbolt and latch bolt are retracted by inside lever simultaneously. Latch bolt is deadlocked when outside lever is locked or when deadbolt is projected. Outside lever is unlocked by toggle button if deadbolt is retracted. Inside lever is always free for immediate egress.

OUTSIDE	INSIDE	SERIES / FUNCTION	TYPE	ANSI	FUNCTION DESCRIPTION
		NM8456	Corridor	F13	Latch bolt retracted by knob / lever from either side. Deadbolt thrown or retracted by key outside or inside thumbturn. Throwing deadbolt locks outside knob / lever. Turning inside knob / lever simultaneously retracts deadbolt and latch bolt and unlocks outside knob / lever. Inside knob / lever is always free for immediate egress.
		NM8473	Dormitory / Bedroom	F21	Latch bolt retracted by knob or lever from either side. Deadbolt extended or retracted by key outside or thumb turn inside. Latch bolt and deadbolt are independent of each other.
		M8460	Cylinder x Thumbturn Lock	F17	Deadbolt thrown or retracted by key outside or thumbturn inside.
		NM8466	Store Door Lock	F14	Latch bolt operated by lever from either side. Deadbolt projected or retracted by key on either side. Latch bolt and deadbolt are independent of each other.
		M8462	Double Cylinder Lock	F16	Deadbolt operated by key from either side.
		M8464	Cylinder Lock	F18	Deadbolt thrown or retracted by key from outside only. No trim on opposite side.
		NM8082	Asylum / Institution Lock	F30	Latch bolt retracted by key from either side. Knob / lever on both sides always inoperative. Auxiliary latch deadlocks latch bolt when door is closed.
		NM8465	Closet / Storeroom with Deadbolt	---	Latch bolt retracted by knob or lever from either side. Deadbolt extended or retracted by key outside.
		NM8040	Privacy Bedroom / Bath	F22	Latch bolt retracted by knob / lever from either side unless outside is locked by inside thumbturn. Operating inside knob / lever, closing door, or operating outside emergency release unlocks outside knob / lever. Inside knob / lever is always free for immediate exit.
		NM8044	Privacy w/ Coin Turn Outside	---	Latch bolt retracted by knob / lever from either side unless outside is locked by inside thumbturn or outside coin turn. Operating inside knob / lever, closing door, rotating inside thumbturn or rotating outside coin turn unlocks outside knob / lever. Inside knob / lever is always free for immediate exit.



OUTSIDE	INSIDE	SERIES / FUNCTION	TYPE	ANSI	FUNCTION DESCRIPTION
		NM8440	Privacy with Deadbolt	F19	Latch bolt retracted by knob / lever from either side. Deadbolt thrown or retracted by inside thumbturn. Throwing deadbolt locks outside knob / lever. Rotating inside knob / lever simultaneously retracts deadbolt and latch bolt, and unlocks outside knob / lever. To unlock from outside, insert emergency thumbturn in access hole and rotate. Inside knob / lever is always free for immediate egress.
		NM8444	Privacy w/ Deadbolt and Coin Turn Outside	F19A	Latch bolt retracted by knob / lever from either side. Deadbolt thrown or retracted by inside thumbturn or outside coin turn. Throwing deadbolt locks outside knob / lever. Rotating inside knob / lever simultaneously retracts deadbolt and latch bolt, and unlocks outside knob / lever. Rotating outside coin turn retracts deadbolt and unlocks outside knob / lever. Inside knob lever is always free for immediate egress.
		NM8445	Privacy w/ Deadbolt, Coin Turn Outside and "OCCUPIED" Indicator	F19B	Latch bolt retracted by knob / lever from either side. Deadbolt thrown or retracted by inside thumbturn or outside coin turn. Throwing deadbolt locks outside knob / lever and displays "OCCUPIED" plate. Rotating inside knob / lever simultaneously retracts deadbolt and latch bolt, and unlocks outside knob / lever. Rotating outside coin turn retracts deadbolt and unlocks outside knob / lever. Inside knob lever is always free for immediate egress.
		NM8495	Privacy with "OCCUPIED" Indicator	---	Knob / lever retracts latch bolt from either side. Dead bolt thrown or retracted by key outside (retraction by key required in the event of an emergency) or inside thumbturn. Throwing deadbolt locks outside knob / lever and displays "OCCUPIED" plate. Rotating inside knob / lever simultaneously retracts both deadbolt and latch bolt and unlocks outside knob / lever. Inside lever is always free for immediate egress.
		NM8010	Passage	F01	Latch bolt operated by lever from either side at all times. Inside lever is always free for immediate exit.
		NM8170	Single Fixed Dummy	---	Lever on one side fixed by mounting bar is always rigid. Lever is used as door pull only.
		NM8172	Double Fixed Dummy	---	Lever on both sides fixed by mounting bar is always rigid. Lever is used as door pull only.
		NM8175	Single Dummy Trim with Lock Case	---	Lever on one side fixed on door surface is always rigid. Includes lock case and armored front.
		NM8176	Double Dummy Trim with Lock Case	---	Lever on both sides fixed on door surface and are always rigid. Includes lock case and blank armor front.

HEAVY DUTY ANSI A156.36 GRADE 1 SMALL LOCK CASE		NM SERIES MORTISE DEADBOLTS		HEAVY DUTY ANSI A156.13 GRADE 1 FULL MORTISE										
<div></div> <div></div> <div><p><b>Lock Case:</b> 3 <sup>15</sup>/<sub>16</sub>" x 3 <sup>5</sup>/<sub>8</sub>" x 1" (100 mm x 92 mm x 25 mm)</p><p><b>Faceplate:</b> 1 <sup>1</sup>/<sub>4</sub>" x 5 <sup>19</sup>/<sub>32</sub>" x 7/<sub>32</sub>" (32 mm x 142 mm x 6 mm)</p><p><b>Strike:</b> 1 <sup>1</sup>/<sub>8</sub>" x 3 <sup>1</sup>/<sub>2</sub>" (29 mm x 89 mm)</p></div> <div><ul style="list-style-type: none"><li>Any door in commercial or institutional buildings where the best auxiliary Mortise deadbolt locks are required</li><li><b>Backset:</b> 2 <sup>3</sup>/<sub>4</sub>" ( 70 mm )</li><li><b>Door Range:</b> 1 <sup>3</sup>/<sub>4</sub>" ( 44 mm ), available to 2 <sup>1</sup>/<sub>4</sub>" (57 mm ). Specify thickness if other than 1 <sup>3</sup>/<sub>4</sub>".</li><li><b>Deadbolt:</b> 1" ( 25 mm ) throw, stainless steel, can withstand cutting or sawing</li><li><b>Cylinder:</b> 1 <sup>1</sup>/<sub>8</sub>" Mortise cylinder Schlage "C" (standard). Otherwise specify</li><li><b>Heavy Gauge Steel Lock Case</b></li><li><b>Brass Deadbolt with Hardened Steel Inserts 1" Throw</b></li><li><b>Architectural Finishes including stainless steel available</b></li></ul><p><b>Mortise Cylinder</b></p><ul style="list-style-type: none"><li>Cylinder length is 1 <sup>1</sup>/<sub>8</sub>" (under shoulder including cam)</li><li>With clover leaf cam</li></ul><div></div></div>		<div></div> <div></div> <div><table><tr><th colspan="2">NM SERIES</th></tr><tr><td rowspan="2">LOCK CASE</td><td>4" x 5 <sup>3</sup>/<sub>4</sub>" x 1"</td></tr><tr><td>102 mm x 146 mm x 25.4 mm</td></tr><tr><td rowspan="2">FACE PLATE</td><td>1 <sup>1</sup>/<sub>4</sub>" x 8" x <sup>1</sup>/<sub>8</sub>"</td></tr><tr><td>32 mm x 203 mm x 3.175 mm</td></tr><tr><td rowspan="2">STRIKE</td><td>1 <sup>1</sup>/<sub>4</sub>" x 4 <sup>7</sup>/<sub>8</sub>"</td></tr><tr><td>32 mm x 124 mm</td></tr></table></div>		NM SERIES		LOCK CASE	4" x 5 <sup>3</sup> / <sub>4</sub> " x 1"	102 mm x 146 mm x 25.4 mm	FACE PLATE	1 <sup>1</sup> / <sub>4</sub> " x 8" x <sup>1</sup> / <sub>8</sub> "	32 mm x 203 mm x 3.175 mm	STRIKE	1 <sup>1</sup> / <sub>4</sub> " x 4 <sup>7</sup> / <sub>8</sub> "	32 mm x 124 mm
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MODEL #		FUNCTIONS		MODEL #										
<div><b>SM4608</b> ANSI E06071</div> <div></div>		<div><b>Cylinder and Thumbturn</b> Deadbolt thrown or retracted by key outside or thumbturn inside</div>		<div><b>M8460</b> ANSI F17</div> <div></div>										
<div><b>SM4628</b> ANSI E06061</div> <div></div>		<div><b>Double Cylinder</b> Deadbolt operated by key on either side</div>		<div><b>M8462</b> ANSI F16</div> <div></div>										
<div><b>SM4638</b> ANSI E06091</div> <div></div>		<div><b>Classroom Lock</b> Deadbolt thrown or retracted by key from outside. Inside cylinder turn retracts deadbolt but cannot project it. <b>Specify handing.</b></div>		<div><b>M8463</b> ANSI F29</div> <div></div>										
<div><b>SM4648</b> ANSI E06081</div> <div></div>		<div><b>Cylinder Lock</b> Deadbolt thrown or retracted by key from one side. No trim on opposite side</div>		<div><b>M8464</b> ANSI F18</div> <div></div>										
<div><b>SM4808</b></div> <div></div>		<div><b>Door Bolt</b> Deadbolt thrown or retracted by thumbturn from one side. No trim on opposite side</div>		<div><b>M8480</b></div> <div></div>										
<div><b>SM4968</b></div> <div></div>		<div><b>Deadbolt With "Occupied" Indicator</b> Deadbolt thrown or retracted by key outside or thumbturn inside. When deadbolt is thrown "OCCUPIED" plate is displayed</div>		<div><b>M8496</b></div> <div></div>										
<div><p>PACKAGING INCLUDES</p><ul style="list-style-type: none"><li>UL listed single point latch</li><li>Standard "C", 6 pin cylinder</li><li>Non-handed strike</li></ul></div>		<div><p><b>OPTIONAL INTERCHANGEABLE CORE</b></p><ul style="list-style-type: none"><li>For <b>Best, Falcon and Arrow</b> Interchangeable Core prefix "IC" before Part#. (Mortise housing Part# ICH961387)</li><li>For <b>Schlage</b> Large Format Interchangeable Core prefix "ICSC" before Part#.</li><li>For <b>Corbin / Russwin</b> Large Format Interchangeable Core prefix "ICCR" before Part#.</li><li>For <b>Sargent</b> Large Format Interchangeable Core prefix "ICSA" before Part#.</li><li>For <b>Yale</b> Large Format Interchangeable Core prefix "ICYA" before Part#. (Mortise housing Part# 7000ICMC)</li></ul></div> <div></div>												
<p><b>ADDITIONAL KEYWAYS</b></p> <p>6 pin solid brass "C" keyway standard. Optional: Schlage E, Schlage C-K, Russwin D1-2-3-4, Corbin 59 / 60, Sargent LA-LB-LC, Falcon / Weiser E, Arrow A, Yale 8, Yale GA and Kwikset. Can also accept Medeco, Assa, Kaba and Cal-Royal HSK High Security Cylinders.</p>														

# NM SERIES

## Kits and Accessories

### ► ADA Thumbturn

Optional Disability Turn (ADA) on applicable mortise locks.  
Prefix "ADA" before Mortise lock PART#.



ADA THUMBTURN

### ► QUICKMARK TEMPLATE

Available heavy duty steel template for fast and easy installation.  
Reduces installation time. Eliminates using paper templates.  
Use PART# "MTCAL".



QUICKMARK TEMPLATE

### ► FOR 2" up to 2 1/4" Thick door

Order kit:  
SSMKIT214 – for sectional trim  
SEMKIT214 – for escutcheon trim

### ► TACTILE

Available on request. Use PART# "TAC".

### ► LEAD LINING

Available on request. Use PART# "LEAD".

### ► ANTI MICROBIAL COATING

Available on request on US26D and US32D finishes.  
Longer factory lead time usually applies.  
Specify "ANTB" when ordering.

### ► HOW TO CHANGE HANDING

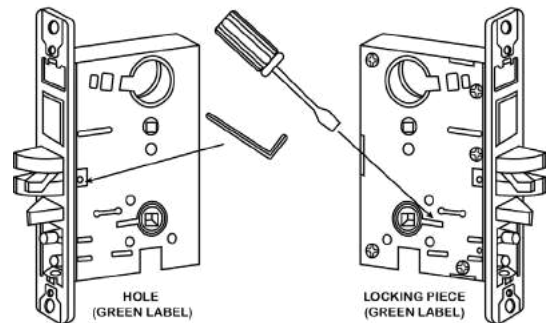
1. Use hex key to unfasten screw in the hole behind latch bolt (green label).
2. Pull latch bolt out until it is entirely away from the lock case.
3. Rotate latch bolt to adjust handing.
4. Fasten the screw tightly into the hole and glue with threadlocker (loctite 242).
5. Use blade screwdriver to flip locking piece (green label) forward twice to front side.
6. Handing is completely reversed.

## HOW TO ORDER NM SERIES

**NM - 8050 - SS - RH - US26D**

SERIES (NM) —  
FUNCTION (OFFICE) —  
TRIM (SS DESIGN SECTIONAL) —  
HANDING (RIGHT HAND) —  
FINISH (SATIN CHROME) —

## HOW TO CHANGE HANDING



### WARNING!

Please read the instruction on the installation guide about the correct position of spring cage.

## Privacy Indicators

### Privacy with Key Outside and "OCCUPIED" Indicator NM8495

- Deadbolt thrown or retracted by key outside or inside thumbturn
- Knob / lever retracts latch bolt from either side
- Throwing deadbolt locks outside knob / lever and displays "OCCUPIED" plate
- Rotating inside knob / lever simultaneously retracts both deadbolt and latch bolt and unlocks outside knob / lever
- Inside lever is always free for immediate egress



### Privacy with Deadbolt, Coin Turn Outside and "OCCUPIED" Indicator NM8445

- Deadbolt thrown or retracted by inside thumbturn or outside coin turn
- Rotating outside coin turn retracts deadbolt and unlocks outside knob / lever
- Latch bolt retracted by knob / lever from either side
- Throwing deadbolt locks outside knob / lever and displays "OCCUPIED" plate
- Rotating inside knob / lever simultaneously retracts deadbolt and latch bolt and unlocks outside knob / lever
- Inside lever is always free for immediate egress



# NM300 Series

## ELECTRIFIED MORTISE LOCKS

Available with or without deadbolt

### FEATURES:

- UL and CUL Listings
- Continuous duty solenoids for cooler operation during “continuously on” applications
- Low current draw
- Numerous switch options
- 3 year “No Hassle” warranty

### OPTIONS:

- Voltage requirement - 12V DC or 24V DC
- Amperage - 300mA @ 12V or 130mA @ 24V
- Solenoid coil resistance - 12V = 39.4  $\Omega$  or 24V = 173  $\Omega$
- Power consumption - 3.65W @ 12V or 3.3W @ 24V
- Function – available Fail Safe, “Electrically Locked” (EL) or Fail Secure, “Electrically Unlocked” (EU)

- **RX** – Request to Exit Switch (Monitors the inside handle)
- **LBM** – Latch Bolt Monitoring Switch (Monitors the position of latch bolt)
- **DPS** – Door Position Switch (\*Sold Separately. Not installed on the lock.)

### HOW TO ORDER ELECTRIFIED NM300 SERIES

- Use **NM Models** if ordered as an **ELECTRIFIED LOCK CASE ONLY**.
- Use **ENM Models** if ordered as a complete lock with **ADD-ON list price**.  
Must Specify: NM Series item # and Electrification Option  
( refer to table below ) separately.  
For Example: NM8080SSRH US26D with ENM300 ( EL 12V ) option,  
**Order: NM8080SSRH US26D and ENM300-RH as two line items.**

► **HANDING: Non-Reversible. Must specify Left Hand (LH) or Right Hand (RH) when ordering.**

**REFER TO PRICELIST  
FOR STOCK FINISHES AND FUNCTIONS**

ELECTRIFICATION OPTIONS ( WITHOUT DEADBOLT )						
MODEL #	EL	EU	12	24	RX	LBM
ENM300	✓		✓			
ENM301	✓		✓		✓	
ENM302	✓		✓			✓
ENM303	✓		✓		✓	✓
ENM304	✓			✓		
ENM305	✓			✓	✓	
ENM306	✓			✓		✓
ENM307	✓			✓	✓	✓
ENM308		✓	✓			
ENM309		✓	✓		✓	
ENM310		✓	✓			✓
ENM311		✓	✓		✓	✓
ENM312		✓		✓		
ENM313		✓		✓	✓	
ENM314		✓		✓		✓
ENM315		✓		✓	✓	✓

ELECTRIFIED LOCK CASE ONLY	
MODEL #	
NM300	
NM301	
NM302	
NM303	
NM304	
NM305	
NM306	
NM307	
NM308	
NM309	
NM310	
NM311	
NM312	
NM313	
NM314	
NM315	

ELECTRIFICATION OPTIONS ( WITH DEADBOLT )						
MODEL #	EL	EU	12	24	RX	LBM
ENM316	✓		✓			
ENM317	✓		✓		✓	
ENM318	✓		✓			✓
ENM319	✓		✓		✓	✓
ENM320	✓			✓		
ENM321	✓			✓	✓	
ENM322	✓			✓		✓
ENM323	✓			✓	✓	✓
ENM324		✓	✓			
ENM325		✓	✓		✓	
ENM326		✓	✓			✓
ENM327		✓	✓		✓	✓
ENM328		✓		✓		
ENM329		✓		✓	✓	
ENM330		✓		✓		✓
ENM331		✓		✓	✓	✓

ELECTRIFIED LOCK CASE ONLY	
MODEL #	
NM316	
NM317	
NM318	
NM319	
NM320	
NM321	
NM322	
NM323	
NM324	
NM325	
NM326	
NM327	
NM328	
NM329	
NM330	
NM331	

► *Electrified Mortise Lock Case can be purchased separately. Refer to table above for options*





**CAL-ROYAL**  
PRODUCTS, INC. U.S.A.



# SC SERIES

**EXTRA HEAVY DUTY MORTISE LOCKS  
WITH *CLUTCH*  
GRADE 1**

**RETROFITS SCHLAGE L9000 SERIES MORTISE LOCKS**

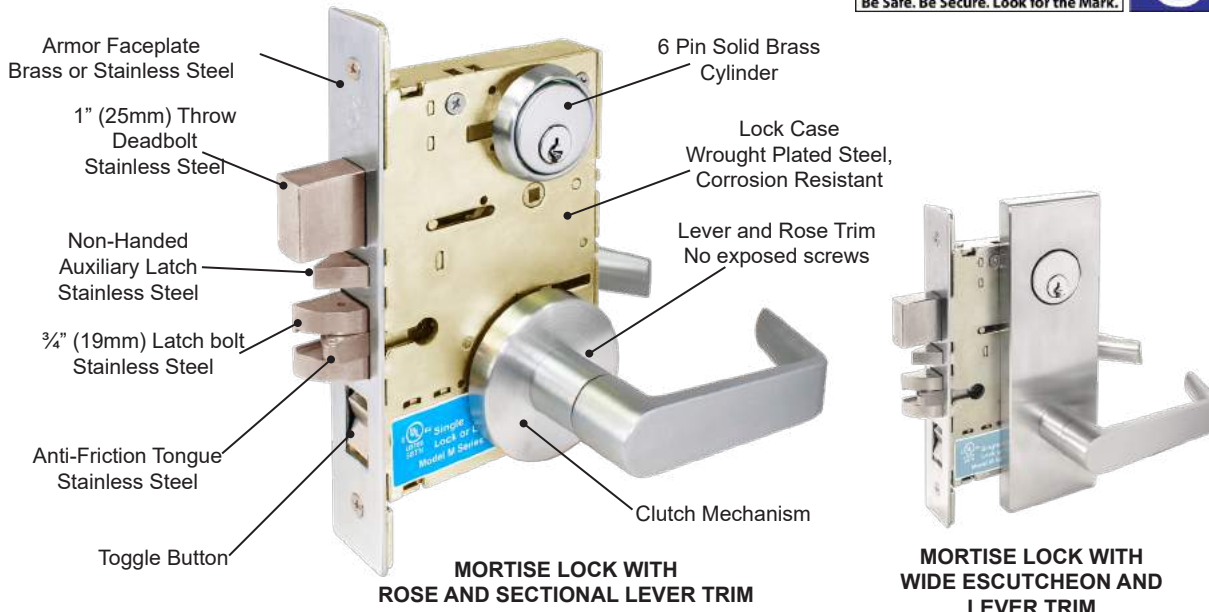
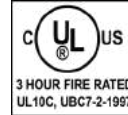


**Architectural Hardware**



# SC SERIES

**Grade 1 Extra Heavy Duty Mortise Locks  
with CLUTCH free-wheeling  
ANSI BHMA A156.13 - 2017**



- Can retrofit Schlage L9000 Series mortise lock without drilling any additional holes on the door for sectional and escutcheon trims
- Fully reversible design
- No exposed mounting screws on outside and inside trims
- Outside lever has a Clutch (Free-Wheeling design). The lever rotates when the lever is locked preventing excessive force from being applied to the horizontal lever. The design decreases the chance of the lever being broken or damaged
- Lock body conforms to all dimensional and operational performances of ANSI A156.13, Grade 1, exceeds 1,000,000 cycles

## SPECIFICATIONS

### FOR DOORS

1 3/4" (44.5mm) thick standard. For doors over 1 3/4" (44.5mm), specify door thickness

### LOCK HAND

Lock bodies are easily field reversible, no need to specify hand when ordering

### BACKSET & STRIKE

2 3/4" (70mm) only backset. Brass or stainless steel strike; ANSI Standard A115.1; curve lip with dust box

### LOCK CASE

Heavy Duty wrought steel, zinc dichromate plated

### CENTER TO CENTER

Center of lever to center of cylinder is 3 7/8" (98mm)

### ARMOR FACEPLATE

Brass or stainless steel; 8" x 1 7/32" (203mm x 31.3mm); ANSI Standard A115.1

### DEADBOLT

1" (25.4mm) throw; hardened stainless steel

### LATCH BOLT

3/4" (19mm) throw; one-piece stainless steel with anti-friction reversible tongue

### CYLINDER & KEYWAYS

6-pin solid brass "C" keyway standard. Optional: Schlage E, Schlage C-K, Russwin D1-2-3-4, Corbin 59 / 60, Corbin-Russwin L4, Sargent LA-LB-LC, Falcon / Weiser E, Arrow A, Yale 8, Yale GA and Kwikset. Can also accept Medeco, Assa, Kaba and Cal-Royal HSK High Security Cylinders.

### INTERCHANGEABLE CORE (IC)

Interchangeable Core locks will accept compatible 6 or 7 pin cores with BEST, FALCON and ARROW (SFIC). Also available with SCHLAGE, CORBIN / RUSSWIN D-1 thru 4, SARGENT LA, and YALE GA Large Format Cylinders.

### TOGGLE BUTTON

High rust-resistant chrome plated zinc alloy

### MASTER KEYING

Can be master-keyed or grand master-keyed, construction keying available

**FINISHES:** US3, 4, 10, 10B, 19, 26, 26D, 32, 32D

**AUXILIARY LATCH:** Stainless Steel, non-handed

## CERTIFICATIONS

**ANSI / BHMA**

Meets ANSI / BHMA A156.13, Series 1000, Operational & Security Grade 1 Standards

## UL / cUL

UL and UL Listed to Canadian safety standard for A label (3-hour fire door); stamped letter F and UL symbol on armor faceplate

## POSITIVE PRESSURE

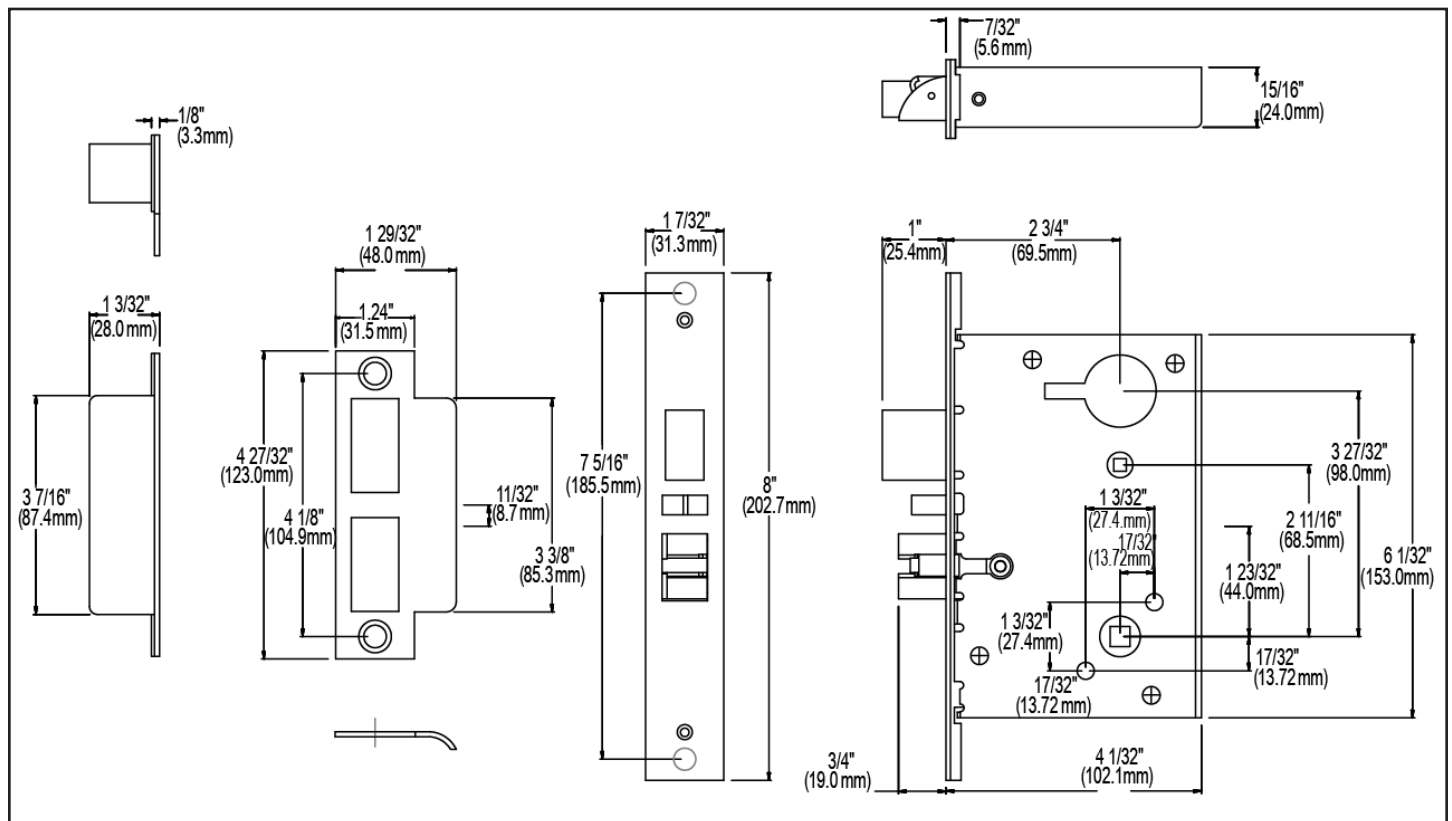
Meets positive pressure requirements UL 10C and UBC 7-2 (1997)

## ADA

Meets ADA requirements, specifically designed for Barrier Free Application



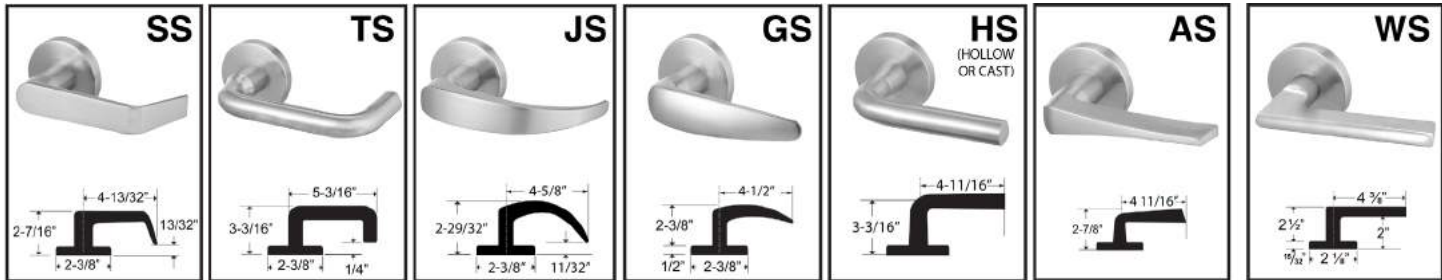
## DIMENSIONS



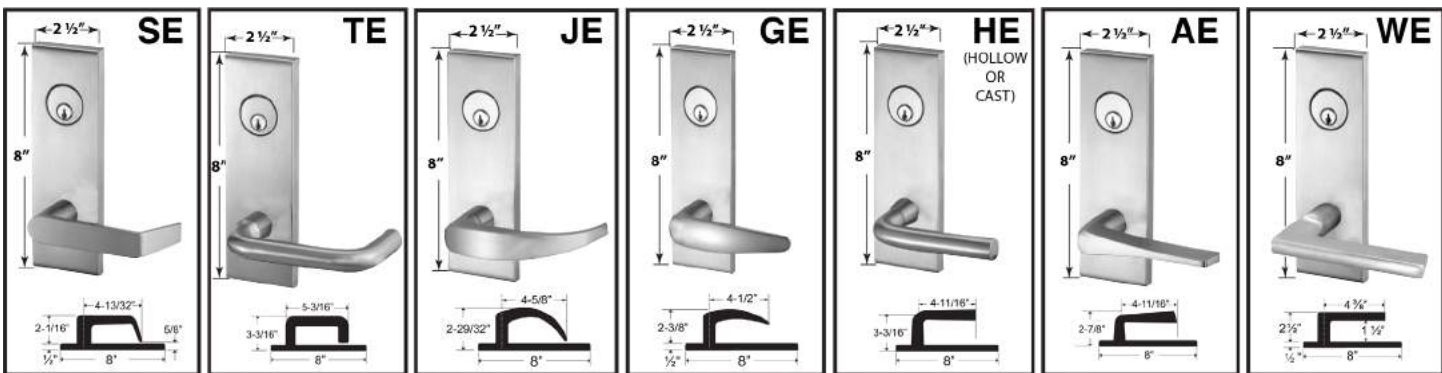
# SC SERIES

## TRIMS & FINISHES

### SECTIONAL

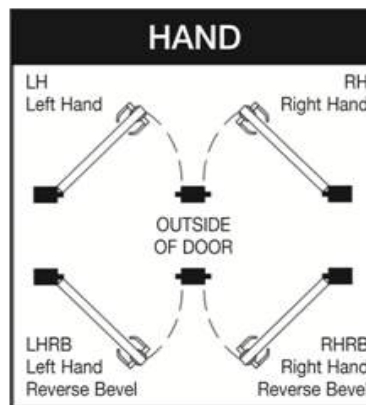


### WIDE ESCUTCHEON



FINISHES		
Symbol	BHMA	Description
US3	605	Polished Brass
US4	606	Satin Brass
US10B	613	Oil Rubbed Bronze
US19	622	Flat Black Coated
US26	625	Polished Chrome
US26D	626	Satin Chrome
US10	612	Satin Bronze
US32D	630	Stainless Steel

ITEM	MATERIAL
Rose	Brass / Stainless Steel
Levers	Brass / Zinc / Stainless Steel
Escutcheons	Brass / Zinc / Stainless Steel



Available with Best, Falcon and Arrow (Small Format IC), Schlage, Corbin / Russwin, Sargent, and Yale Interchangeable core.

- ICSC - Schlage LFIC
- ICCR - Corbin / Russwin LFIC
- ICSR - Sargent LFIC
- ICYA - Yale LFIC

# SC SERIES

## Kits and Accessories

### ► ADA Thumbturn

Optional Disability Turn (ADA) on applicable mortise locks.  
Prefix "ADA" before Mortise lock PART#.

Order kit: SCSADA - ADA Thumbturn for Sectional  
SCEADA - ADA Thumbturn for Escutcheon



### ► for 2" up to 2 1/4" thick doors

Order kit: SCSKIT200 – for sectional trim  
SCEKIT214 – for escutcheon trim

## HOW TO ORDER (SC SERIES)

**SC8050 - SS - US26D**

**FUNCTION (OFFICE)** ————  
**TRIM (SS DESIGN SECTIONAL)** ————  
**FINISH (SATIN CHROME)** ————

**ALL PRODUCTS ARE SHIPPED NON-HANDED.  
EASILY FIELD REVERSIBLE.**

## Indicator Mortise Locks

### Privacy with Key Outside and "OCCUPIED" Indicator

#### SC8495

- Deadbolt thrown or retracted by key outside or inside thumbturn
- Knob / lever retracts latch bolt from either side
- Throwing deadbolt locks outside knob / lever and displays "OCCUPIED" plate
- Rotating inside knob / lever simultaneously retracts both deadbolt and latch bolt and unlocks outside knob / lever
- Inside lever is always free for immediate egress

**SC8495**  
**SC8486**



### Faculty Restroom with Key Outside and "OCCUPIED" Indicator

#### SC8486

- Latch bolt retracted by key outside or by knob / lever inside. Outside knob / lever always fixed
- Deadbolt thrown or retracted by inside thumbturn
- When deadbolt is thrown, "OCCUPIED" plate is displayed and all keys become inoperative except emergency keys
- Turning inside knob / lever simultaneously retracts both deadbolt and latch bolt
- Auxiliary latch deadlocks latch bolt when door is locked
- Inside lever is always free for immediate egress

**SC8445**



### Privacy with Deadbolt, Coin Turn Outside and "OCCUPIED" Indicator

#### SC8445

- Deadbolt thrown or retracted by inside thumbturn or outside coin turn
- Rotating outside coin turn retracts deadbolt and unlocks outside knob / lever
- Latch bolt retracted by knob / lever from either side
- Throwing deadbolt locks outside knob / lever and displays "OCCUPIED" plate
- Rotating inside knob / lever simultaneously retracts deadbolt and latch bolt and unlocks outside knob / lever
- Inside lever is always free for immediate egress

### ► TACTILE

Available on request. Use PART# "TAC".

### ► LEAD LINING

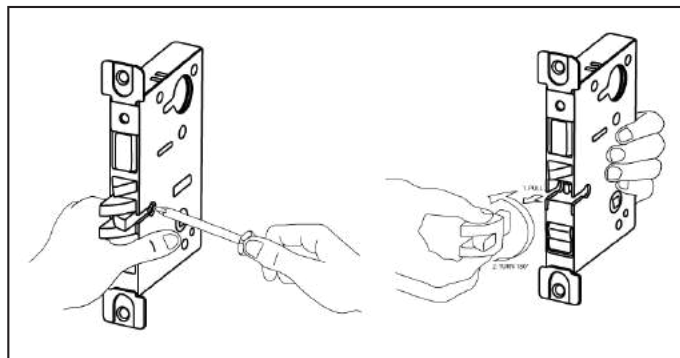
Available on request. Use PART# "LEAD".

### ► ANTI MICROBIAL COATING

Available on request on US26D and US32D finishes. Longer factory lead time usually applies. Specify "ANTB" when ordering.

### ► HOW TO CHANGE HANDING

If the handing of the latch bolt does not match the door handing, remove locking screw and pull latch bolt out from lock case, then turn 180°, making the bevel of the latch bolt face the opposite hand. Replace the latch bolt and fasten the locking screw.





# SC400 Series

## ELECTRIFIED MORTISE LOCKS

Available with or without deadbolt

### FEATURES:

- UL and CUL Listings
- Continuous duty solenoids for cooler operation during “continuously on” applications
- Allows for an AC or DC power source through an appropriate power supply. No polarity.
- Low current draw
- Numerous switch options
- 3 year “No Hassle” warranty

### OPTIONS:

- Voltage requirement -12V AC / DC or 24V AC / DC
- Amperage - 600mA ±10% @ 12V or 300mA ±10% @ 24V
- Solenoid coil resistance - 12V = 20 Ω ±5% or 24V = 80 Ω ±5%
- Power consumption - 7.2 watts ±10%
- Function – available Fail Safe, “Electrically Locked” (EL) or Fail Secure, “Electrically Unlocked” (EU)

**RETROFITS SCHLAGE L9000**  
( direct chassis replacement )

### HOW TO ORDER ELECTRIFIED SC400 SERIES

- Use **SC Models** if ordered as an **ELECTRIFIED LOCK CASE ONLY**.
  - Use **ESC Models** if ordered as a complete lock with **ADD-ON list price**.
- Must Specify: SC Series item # and Electrification Option  
( refer to table below ) separately.
- For Example: SC8080SS US26D with ESC400 ( EL 12V ) option,  
**Order: SC8080SS US26D and ESC400 as two line items.**

- **RX** – Request to Exit Switch (Monitors the inside handle)
- **LBM** – Latch Bolt Monitoring Switch (Monitors the position of latch bolt)
- **DPS** – Door Position Switch  
(\*Sold Separately. Not installed on the lock.)

**REFER TO PRICELIST  
FOR STOCK FINISHES AND FUNCTIONS**

ELECTRIFICATION OPTIONS ( WITHOUT DEADBOLT )							ELECTRIFIED LOCK CASE ONLY
MODEL #	EL	EU	12	24	RX	LBM	MODEL #
ESC400	✓		✓				SC400
ESC400-RX	✓		✓		✓		SC400-RX
ESC400-LBM	✓		✓			✓	SC400-LBM
ESC400-RXLBM	✓		✓		✓	✓	SC400-RXLBM
ESC404	✓			✓			SC404
ESC404-RX	✓			✓	✓		SC404-RX
ESC404-LBM	✓			✓		✓	SC404-LBM
ESC404-RXLBM	✓			✓	✓	✓	SC404-RXLBM
ESC408		✓	✓				SC408
ESC408-RX		✓	✓		✓		SC408-RX
ESC408-LBM		✓	✓			✓	SC408-LBM
ESC408-RXLBM		✓	✓		✓	✓	SC408-RXLBM
ESC412		✓		✓			SC412
ESC412-RX		✓		✓	✓		SC412-RX
ESC412-LBM		✓		✓		✓	SC412-LBM
ESC412-RXLBM		✓		✓	✓	✓	SC412-RXLBM

ELECTRIFICATION OPTIONS ( WITH DEADBOLT )							ELECTRIFIED LOCK CASE ONLY
MODEL #	EL	EU	12	24	RX	LBM	MODEL #
ESC416	✓		✓				SC416
ESC416-RX	✓		✓		✓		SC416-RX
ESC416-LBM	✓		✓			✓	SC416-LBM
ESC416-RXLBM	✓		✓		✓	✓	SC416-RXLBM
ESC420	✓			✓			SC420
ESC420-RX	✓			✓	✓		SC420-RX
ESC420-LBM	✓			✓		✓	SC420-LBM
ESC420-RXLBM	✓			✓	✓	✓	SC420-RXLBM
ESC424		✓	✓				SC424
ESC424-RX		✓	✓		✓		SC424-RX
ESC424-LBM		✓	✓			✓	SC424-LBM
ESC424-RXLBM		✓	✓		✓	✓	SC424-RXLBM
ESC428		✓		✓			SC428
ESC428-RX		✓		✓	✓		SC428-RX
ESC428-LBM		✓		✓		✓	SC428-LBM
ESC428-RXLBM		✓		✓	✓	✓	SC428-RXLBM

► **Electrified Mortise Lock Case can be purchased separately. Refer to table above for options**



# SC SERIES

## Grade 1 Heavy Duty Hospital Latch HL Trims Push-Pull Trim with Mortise Lock



### FEATURES

- The push-pull trim can be mounted in vertical (up or down) and horizontal applications in the field
- Through-bolted design for trims with lockcase for more stability
- Handing is easily field reversible
- Fits 1 3/4" (44mm) thick standard RHR or LHR hollow metal doors & wood doors, over 1 3/4" (44mm) is also available (specify door thickness when ordering)
- Push-Pull trim is non-handed, easy installation
- Mortise lock functions available (recommended): F01, F04, F05, F09, F11, F13, F14, F19 F20, F22, F30
- Handles are cast stainless steel, corrosion protected
- Patented in USA and UL Listed
- Available in BHMA finishes

# SC SERIES

GRADE 1 • HEAVY DUTY • ANSI A156.13 - 2017  
LIGATURE RESISTANT (LG) MORTISE LOCK TRIM



ESCUTCHEON LEVER (LGE)



ESCUTCHEON KNOB (LGX)



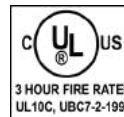
SECTIONAL LEVER (LGS)



SECTIONAL KNOB (LGK)

## FEATURES

- ANSI A156.13-2017 Grade 1 Mortise locks
- Outside lever clutch free-wheeling design.
- The lever rotates when the lever is locked preventing excessive force from being applied to the horizontal lever. This design decreases the chance of the lever being broken or damaged
- Ligature Resistant lever design helps to prevent intentional or accidental hanging
- Anti-vandal cylinder guard is standard, deters forcible removal of cylinder with any type of wrench or hammer
- Different functions available to satisfy individual security and safety requirements
- Tamper resistant concealed mounting set screws
- Non-handed, fully field reversible
- Heavy duty escutcheon and sectional trim available
- No exposed mounting screws
- Can retrofit Schlage L9000 Series mortise lock bodies
- Trim Suffixes: **S**-Lever Sectional **E**-Lever Escutcheon  
**K**-Knob Sectional **X**-Knob Escutcheon



**MEETS**  
*The Buy American Act*

**LIFETIME  
WARRANTY**

**BHMA<sup>TM</sup>**  
**CERTIFIED**  
Be Safe. Be Secure. Look for the Mark.

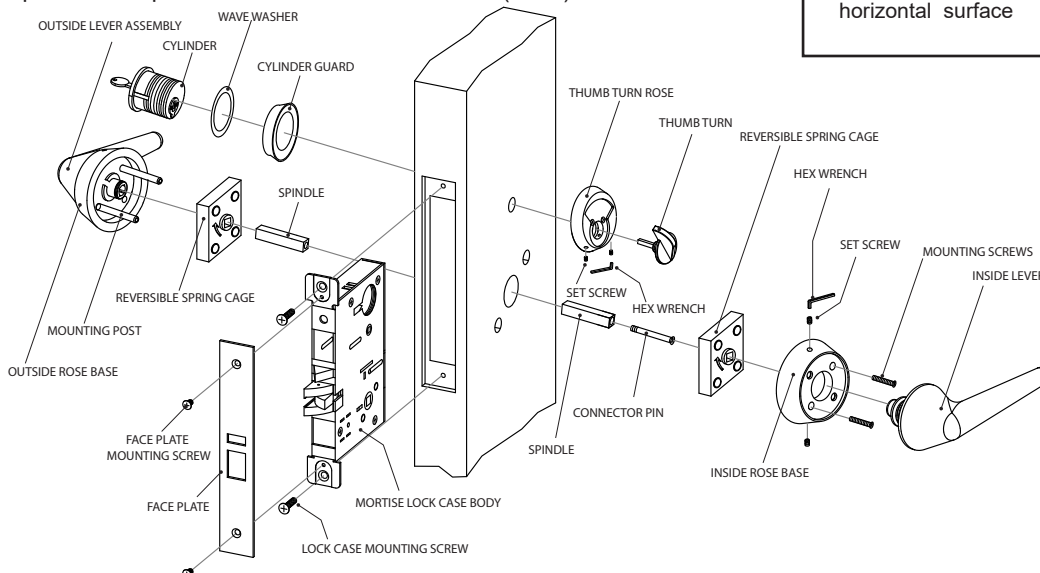
## CERTIFICATIONS







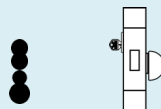
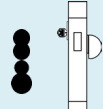
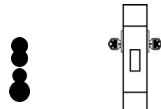
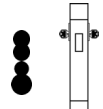
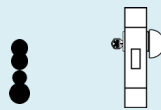
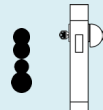
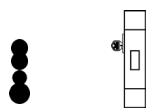
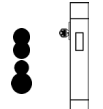
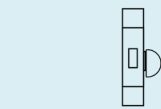

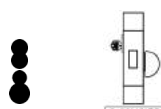
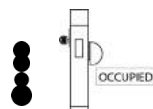

- Meets ANSI / BHMA A156.13 Series 1000 Grade 1 Requirements
- UL and cUL listed to Canadian safety standard for A label (3-hour fire door); stamped letter "F" and UL symbol on armor faceplate
- Meets positive pressure requirements UL 10C and UBC 7-2 (1997)









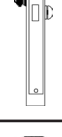
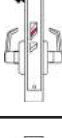



## LIGATURE RESISTANT THUMBTURN







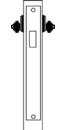




- Positive stop design
- Prevents over extension
- Eliminates presentation of horizontal surface










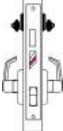

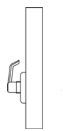
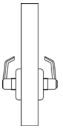
HEAVY DUTY ANSI A156.36 GRADE 1 SMALL LOCK CASE	SC SERIES MORTISE DEADBOLTS	HEAVY DUTY ANSI A156.13 GRADE 1 FULL MORTISE
<div></div> <div></div> <div><b>Lock Case:</b> 3 15/16" x 3 5/8" x 1 15/16" ( 100 mm x 92 mm x 25 mm )</div> <div><b>Faceplate:</b> 1 1/4" x 5 5/8" x 1 7/32" ( 32 mm x 142 mm x 6 mm )</div> <div><b>Strike:</b> 1 1/8" x 3 1/2" ( 29 mm x 89 mm )</div>	<p>Any door in commercial or institutional buildings where the best auxiliary Mortise deadbolt locks are required</p> <ul style="list-style-type: none"><li>• <b>Backset:</b> 2 3/4" ( 70 mm )</li><li>• <b>Door Range:</b> 1 3/4" ( 44.5 mm ), available to 2 1/4" ( 57 mm )</li><li>• <b>Deadbolt:</b> 1" ( 25 mm ) throw, stainless steel, can withstand cutting or sawing</li><li>• <b>Cylinder:</b> 1 1/4" Mortise cylinder Schlage "C" (standard)</li><li>• <b>Heavy Gauge Steel Lock Case</b></li><li>• <b>Brass Deadbolt with Hardened Steel, 1" Throw</b></li><li>• <b>Satin Chrome Finish</b></li><li>• <b>ANSI A156.13</b></li><li>• <b>Exceeds 1,000,000 cycles</b></li></ul> <div></div> <div><b>Mortise Cylinder</b><ul style="list-style-type: none"><li>• Cylinder length is 1 1/8" (under shoulder including cam)</li><li>• With Schlage cam (L583-2540)</li></ul></div>	<div></div> <div><b>SC SERIES</b></div> <div><b>Lock Case:</b> 4" x 6 1/32" x 1 7/32" ( 102 mm x 153 mm x 31.3 mm )</div> <div><b>Faceplate:</b> 1 7/32" x 8" x 1 1/8" ( 31.3 mm x 203 mm x 3.175 mm )</div> <div><b>Strike:</b> 1 7/8" x 4 27/32" ( 48 mm x 123 mm )</div> <div></div> <div></div>
MODEL #	FUNCTIONS	MODEL #
<b>SM140</b> 	<b>Cylinder and Thumbturn</b> Deadbolt thrown or retracted by key outside or thumbturn inside	<b>SC8460</b>  ANSI F17
<b>SM143</b> 	<b>Double Cylinder</b> Deadbolt operated by key on either side	<b>SC8462</b>  ANSI F16
<b>SM141</b> 	<b>Classroom Lock</b> Deadbolt thrown or retracted by key from outside. Inside thumbturn cylinder retracts deadbolt but cannot project it. <b>Specify handing.</b>	<b>SC8463</b>  ANSI F29
<b>SM142</b> 	<b>Cylinder Lock</b> Deadbolt thrown or retracted by key from outside only. No trim on opposite side.	<b>SC8464</b>  ANSI F18
<b>SM145</b> 	<b>Door Bolt</b> Deadbolt thrown or retracted by thumbturn from one side. No trim on opposite side	<b>SC8461</b> 
<b>SM146</b> 	<b>Deadbolt With "Occupied" Indicator</b> Deadbolt thrown or retracted by key outside or thumbturn inside. When deadbolt is thrown "OCCUPIED" plate is displayed	<b>SC8496</b> 
<b>PACKAGING INCLUDES</b> <ul style="list-style-type: none"><li>• UL listed single point latch</li><li>• Standard "C", 6 pin cylinder</li><li>• Non-handed strike</li></ul>	<b>OPTIONAL INTERCHANGEABLE CORE</b> <ul style="list-style-type: none"><li>• For <b>Best, Falcon and Arrow</b> Interchangeable Core prefix "IC" before Part#. (Mortise housing Part# ICH961387)</li><li>• For <b>Schlage</b> Large Format Interchangeable Core prefix "ICSC" before Part#.</li><li>• For <b>Corbin / Russwin</b> Large Format Interchangeable Core prefix "ICCR" before Part#.</li><li>• For <b>Sargent</b> Large Format Interchangeable Core prefix "ICSA" before Part#.</li><li>• For <b>Yale</b> Large Format Interchangeable Core prefix "ICYA" before Part#. (Mortise housing Part# 7000ICMC)</li></ul> <div></div>	
<b>ADDITIONAL KEYWAYS</b> 6 pin solid brass "C" keyway standard. Optional: Schlage E, Schlage C-K, Russwin D1-2-3-4, Corbin 59 / 60, Sargent LA-LB-LC, Falcon / Weiser E, Arrow A, Yale 8, Yale GA and Kwikset. Can also accept Medeco, Assa, Kaba and Cal-Royal HSK High Security Cylinders.		


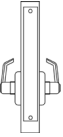









OUTSIDE	INSIDE	SERIES/FUNCTION	TYPE	ANSI	FUNCTION DESCRIPTION
		<b>SC8050 SC8050HL SC8050LG</b>	<b>Office / Entrance</b>	<b>F04</b>	Latch bolt retracted by key outside and inside lever when outside lever is locked. Outside lever retracts latch bolt unless outside lever is locked by operating toggle button. Outside lever is locked and unlocked by toggle button. Key outside locks outside lever only. When latch bolt is retracted by inside lever, outside lever remains locked. Auxiliary latch deadlocks latch bolt when door is closed. Inside lever is always free for immediate exit.
		<b>SC8056</b>	<b>Office with Automatic Unlocking</b>	---	Latch bolt retracted by knob / lever from either side unless outside is made inoperative by key outside or by rotating inside thumbturn. Outside knob / lever unlocked by key outside or thumbturn. Rotating inside knob / lever simultaneously retracts latch bolt and unlocks outside knob / lever. Auxiliary latch deadlocks latch bolt when door is locked. Inside knob / lever is always free of immediate egress.
		<b>SC8070 SC8070HL SC8070LG</b>	<b>Classroom</b>	<b>F05</b>	Outside key locks and unlocks outside lever. Outside lever retracts latch bolt unless outside lever is locked by key. When outside lever is locked, unlocked from outside by key or by inside lever. Inside lever is always free for immediate exit. Auxiliary latch deadlocks latch bolt when door is closed.
		<b>SC8071 SC8071LG</b>	<b>Classroom Security Lock</b>	<b>F32</b>	Latch bolt retracted by knob / lever from either side unless outside is locked by key from either side. When outside lever is locked, latch bolt is retracted by key outside or lever inside. Turning key from either side locks and unlocks outside lever. Auxiliary latch deadlocks latch bolt when door is locked. Inside knob / lever is always free for immediate egress.
		<b>SC8076</b>	<b>Classroom Hold-Back Lock</b>	<b>F06</b>	Latch bolt retracted by knob / lever from either side unless outside is locked by key. When locked, latch bolt retracted by key outside or knob / lever inside. Auxiliary latch deadlocks latch bolt when door is locked. Depress inside knob / lever and turn key 360° for hold-back feature.
		<b>SC8077</b>	<b>Classroom Security Hold-Back Lock</b>	---	Latch bolt retracted by knob / lever from either side unless outside is locked by key from either side. When locked, latch bolt retracted by key outside or knob / lever inside. Auxiliary latch deadlocks latch bolt when door is locked. Depress inside knob / lever and turn key 360° for hold-back feature. Inside knob / lever is always free for immediate egress.
		<b>SC8457 SC8457LG</b>	<b>Classroom Security Lock w/ Deadbolt</b>	<b>F33</b>	Latch bolt retracted by outside lever from either side unless outside lever is locked by key from inside or outside. Deadbolt projected or retracted by key outside. Operating inside lever retracts both deadbolt and latch bolt simultaneously and unlock outside lever. Inside knob / lever is always free for immediate egress.
		<b>SC8458 SC8458LG</b>	<b>Classroom Security Lock w/ Deadbolt and Auxiliary Latch</b>	<b>F34</b>	Latch bolt retracted by lever from either side unless outside lever is locked from inside or outside by key. Deadbolt projected or retracted by key outside. Operating inside lever retracts both bolts and unlocks outside lever. Auxiliary latch deadlocks latch bolt when door is closed or latch bolt deadlocks when deadbolt is projected. Inside lever is always free for immediate egress.
		<b>SC8463</b>	<b>Classroom Lock</b>	<b>F29</b>	Deadbolt thrown or retracted by key from outside. Inside thumbturn cylinder retracts deadbolt but cannot project it.
		<b>SC8080 SC8080LG</b>	<b>Storeroom</b>	<b>F07</b>	Latch bolt operated by key from outside or rotating inside lever, outside lever is always inoperative. Auxiliary latch deadlocks latch bolt when door is closed. Inside lever is always free for immediate egress.
		<b>SC8480</b>	<b>Storeroom Lock with Deadbolt</b>	---	Latch bolt retracted by key outside or by lever or knob inside. Outside knob / lever is always fixed. Deadbolt thrown or retracted by key outside or thumbturn inside. Turning inside knob / lever simultaneously retracts both deadbolt and latch bolt. Auxiliary latch deadlocks latch bolt when door is closed. Inside knob / lever is always free for immediate egress.



OUTSIDE	INSIDE	SERIES/FUNCTION	TYPE	ANSI	FUNCTION DESCRIPTION
		<b>SC8453</b> <b>SC8453HL</b> <b>SC8453LG</b>	<b>Entrance</b>	<b>F20</b>	Latch bolt retracted by lever from either side unless outside lever is locked by operating toggle button. Deadbolt projected by key from outside or by thumbturn from inside. Both deadbolt and latch bolt are retracted by inside lever simultaneously. Latch bolt is deadlocked when outside lever is locked or when deadbolt is projected. Outside lever is unlocked by toggle button if deadbolt is retracted. Inside lever is always free for immediate egress.
		<b>SC8456</b> <b>SC8456HL</b> <b>SC8456LG</b>	<b>Corridor</b>	<b>F13</b>	Latch bolt retracted by knob / lever from either side. Deadbolt thrown or retracted by key outside or inside thumbturn. Throwing deadbolt locks outside knob / lever. Turning inside knob / lever simultaneously retracts deadbolt and latch bolt and unlocks outside knob / lever. Inside knob / lever is always free for immediate egress.
		<b>SC8473</b> <b>SC8473HL</b> <b>SC8473LG</b>	<b>Dormitory / Bedroom</b>	<b>F21</b>	Latch bolt retracted by knob or lever from either side. Deadbolt extended or retracted by key outside or thumbturn inside. Latch bolt and deadbolt are independent of each other.
		<b>SC8460</b>	<b>Cylinder x Thumbturn Lock</b>	<b>F17</b>	Deadbolt thrown or retracted by key outside or thumbturn inside.
		<b>SC8060</b> <b>SC8060HL</b> <b>SC8060LG</b>	<b>Apartment Entrance / Vestibule</b>	<b>F09</b>	Latch bolt operated by lever from either side except when outside lever is locked by inside key. Outside key or inside lever will retract latch when locked. Key inside locks and unlocks outside lever. Auxiliary latch deadlocks latch bolt when door is closed. Inside lever is always free for immediate egress.
		<b>SC8466</b> <b>SC8466HL</b> <b>SC8466LG</b>	<b>Store Door Lock (Asylum-4)</b>	<b>F14</b>	Latch bolt operated by lever from either side. Deadbolt projected or retracted by key on either side. Latch bolt and deadbolt are independent of each other.
		<b>SC8462</b>	<b>Double Cylinder Lock</b>	<b>F16</b>	Deadbolt operated by key from either side.
		<b>SC8464</b>	<b>Cylinder Lock</b>	<b>F18</b>	Deadbolt thrown or retracted by key from outside only. No trim on opposite side.
		<b>SC8082</b> <b>SC8082HL</b> <b>SC8082LG</b>	<b>Asylum / Institution Lock</b>	<b>F30</b>	Latch bolt retracted by key from either side. Knob / lever on both sides always inoperative. Auxiliary latch deadlocks latch bolt when door is closed.
		<b>SC8465</b>	<b>Closet / Storeroom with Deadbolt</b>	<b>F65</b>	Latch bolt retracted by knob or lever from either side. Deadbolt extended or retracted by key outside.
		<b>SC8044</b>	<b>Privacy w/ Coin Turn Outside</b>	<b>F22</b>	Latch bolt retracted by knob / lever from either side unless outside is locked by inside thumbturn or outside coin turn. Operating inside knob / lever, closing door, rotating inside thumbturn or rotating outside coin turn unlocks outside knob / lever. Inside knob / lever is always free for immediate exit.



OUTSIDE	INSIDE	SERIES/FUNCTION	TYPE	ANSI	FUNCTION DESCRIPTION
		<b>SC8440</b> <b>SC8440HL</b> <b>SC8440LG</b>	<b>Privacy with Deadbolt</b>	<b>F19</b>	Latch bolt retracted by knob / lever from either side. Deadbolt thrown or retracted by inside thumbturn. Throwing deadbolt locks outside knob / lever. Rotating inside knob / lever simultaneously retracts deadbolt and latch bolt, and unlocks outside knob / lever. To unlock from outside, remove emergency button, insert emergency thumbturn in access hole and rotate. Inside knob / lever is always free for immediate egress.
		<b>SC8040</b> <b>SC8049HL</b> <b>SC8049LG</b>	<b>Privacy Bedroom / Bath</b>	<b>F22</b>	Latch bolt retracted by knob / lever from either side unless outside is locked by inside thumbturn. Operating inside knob / lever, closing door, or operating outside emergency release unlocks outside knob / lever. Inside knob / lever is always free for immediate exit.
		<b>SC8444</b>	<b>Privacy w/ Deadbolt and Coin Turn Outside</b>	<b>F19A</b>	Latch bolt retracted by knob / lever from either side. Deadbolt thrown or retracted by inside thumbturn or outside coin turn. Throwing deadbolt locks outside knob / lever. Rotating inside knob / lever simultaneously retracts deadbolt and latch bolt, and unlocks outside knob / lever. Rotating outside coin turn retracts deadbolt and unlocks outside knob / lever. Inside knob / lever is always free for immediate egress.
		<b>SC8445</b>	<b>Privacy w/ Deadbolt, Coin Turn Outside and "OCCUPIED" Indicator</b>	<b>F19B</b>	Latch bolt retracted by knob / lever from either side. Deadbolt thrown or retracted by inside thumbturn or outside coin turn. Throwing deadbolt locks outside knob / lever and displays "OCCUPIED" plate. Rotating inside knob / lever simultaneously retracts deadbolt and latch bolt, and unlocks outside knob / lever. Rotating outside coin turn retracts deadbolt and unlocks outside knob / lever. Inside knob lever is always free for immediate egress.
		<b>SC8495</b>	<b>Privacy with "OCCUPIED" Indicator</b>	---	Knob / lever retracts latch bolt from either side. Deadbolt thrown or retracted by key outside (retraction by key required in the event of an emergency) or inside thumbturn. Throwing deadbolt locks outside knob / lever and displays "OCCUPIED" plate. Rotating inside knob / lever simultaneously retracts both deadbolt and latch bolt and unlocks outside knob / lever. Inside lever is always free for immediate egress.
		<b>SC8485</b>	<b>Faculty Restroom Lock</b>	---	Latch bolt retracted by key outside or by knob / lever inside. Outside knob / lever is always fixed. Deadbolt thrown or retracted by inside thumbturn. When dead bolt is thrown, all keys become inoperable except emergency or display keys. Turning inside knob / lever retracts both deadbolt and latch bolt simultaneously. Auxiliary latch deadlocks latch bolt when door is closed. Inside knob / lever is always free for immediate egress.
		<b>SC8486</b>	<b>SC8485 with "OCCUPIED" Indicator</b>	---	Latch bolt retracted by key outside or by knob / lever inside. Outside knob / lever always fixed. Deadbolt thrown or retracted by inside thumbturn. When deadbolt is thrown, "OCCUPIED" plate is displayed and all keys become inoperative except emergency keys. Turning inside knob / lever simultaneously retracts both deadbolt and latch bolt. Auxiliary latch deadlocks latch bolt when door is locked. Inside knob / lever is always free for immediate egress.
		<b>SC8411HL</b> <b>SC8411LG</b>	<b>Dormitory / Exit Lock</b>	<b>F11</b>	Latch bolt retracted by lever from either side unless outside lever is made inoperative by operating toggle button. Dead bolt projected by key from either side. Dead bolt retracted by key outside. Operating inside lever retracts both dead bolt and latch bolt simultaneously and outside lever remains locked.
		<b>SC8010</b> <b>SC8010HL</b> <b>SC8010LG</b>	<b>Passage</b>	<b>F01</b>	Latch bolt operated by lever from either side at all times. Inside lever is always free for immediate exit.
		<b>SC8170</b>	<b>Single Fixed Dummy</b>	---	Lever on one side fixed by mounting bar is always rigid. Lever is used as door pull only.
		<b>SC8172</b>	<b>Double Fixed Dummy</b>	---	Lever on both sides fixed by mounting bar is always rigid. Lever is used as door pull only.

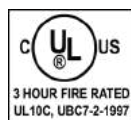
OUTSIDE	INSIDE	SERIES/FUNCTION	TYPE	ANSI	FUNCTION DESCRIPTION
		SC8175	Single Dummy Trim with Lock Case	---	Lever on one side fixed on door surface is always rigid. Includes lock case and armored front.
		SC8176	Double Dummy Trim with Lock Case	---	Lever on both sides fixed on door surface and are always rigid. Includes lock case and blank armor front.
		SC8026LG	Supervisor Office or Privacy Room (Institutional Privacy)	F26	Outside key retracts latch bolt, with override of inside thumbturn when held in locked position. Outside lever retracts latch bolt except when locked by thumbturn. Free exit at all times. Inside lever can be rotated at any time.
		SC8031LG (Asylum-1)	Asylum w/o Inside Cylinder	---	Only outside key retracts latch bolt. Inside and Outside Lever are clutch, free-wheeling.
		SC8032LG (Asylum-2)	Asylum w/ Double Cylinder w/o Inside Lever	---	Outside or inside key retracts latch bolt. Outside Lever is clutch, free-wheeling.
		SC8033LG (Asylum-3)	Asylum w/o Inside Cylinder w/o Inside Lever	---	Only outside key retracts latch bolt. Outside lever is clutch, freewheeling.
		SC8467LG (Asylum-5)	Asylum w/ Deadbolt w/o Inside Cylinder	---	Outside lever retracts both latch bolt and deadbolt simultaneously. Outside key operates deadbolt. Outside lever is operable. Inside lever is clutch, freewheeling.
		SC8468LG (Asylum-6)	Asylum w/ Deadbolt & Double Cylinder w/o Inside Lever	---	Outside or inside key operates deadbolt. Outside Lever is operable unless deadbolted.
		SC8469LG (Asylum-7)	Asylum w/ Deadbolt w/o Inside Cylinder & Inside Lever	---	Outside lever retracts latch bolt. Outside key operates deadbolt. Outside lever can open door except when deadbolted.
		SC8055LG	Female Patient Room-1	---	Outside lever can be turned for entry when unlocked by key. Free exit at all times. Remains locked if exiting. Outside lever is lockable. Inside lever can be rotated at any time.
		SC8056LG	Female Patient Room-2	---	Outside lever can be turned for entry when unlocked by key. Free exit at all times. Remains unlocked if exiting. Inside lever can be rotated at any time.

# HOSPP SERIES

## Grade 1 Heavy Duty Hospital Latch

### FEATURES

- UL-listed for use on all fire doors
- Meets ADA requirements
- Ideal for use in hospitals, washrooms or public buildings
- Can be installed in 6 different mounting positions
- Covers and paddles are made of stainless steel
- Non-Handed
- Standard T-Strike and Plastic Dust Box
- 1 3/4" door thickness
- 2 3/4" backset standard, face plate 1 1/8" x 2 1/4"
- Optional 5" backset
- 2 5/8" x 4 3/8" Covers
- 2 5/8" Handle Projection,
- **Anti-microbial coating option** available.  
Use "HOS-ANTB" when ordering.
- Lead lining option available for doors with lead lining
- Optional ASA ANSI Strike

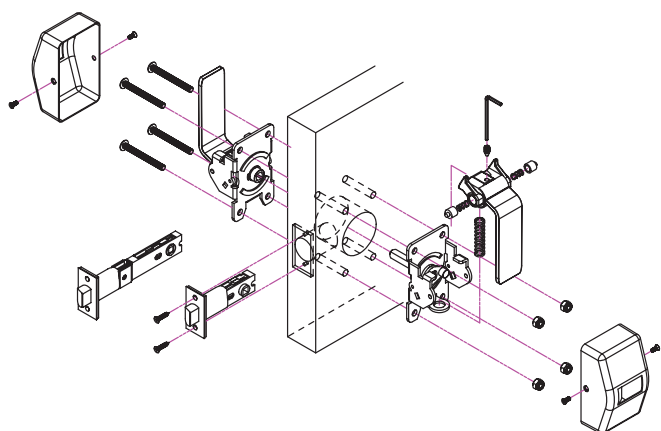


**MEETS**  
*The Buy American Act*



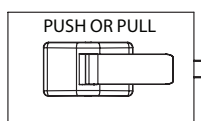
**HOSPP-30**

MODEL#	FUNCTION	FINISH
<b>HOS-PP30</b>	PASSAGE	US32D

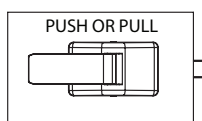


The hospital push / pull latch allows for easy opening of doors with an easy push or pull action using elbows or hips when hands are not free.

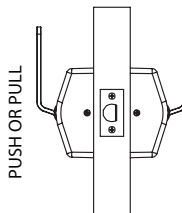
Ideal for use in commercial applications, institutions, hospitals, washrooms or public buildings.



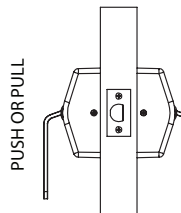
HORIZONTAL  
WITH 5" BACKSET



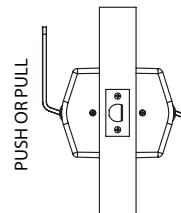
HORIZONTAL  
WITH 2-3/4" or  
5" BACKSET



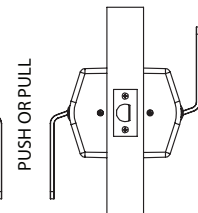
VERTICAL  
UP (INSIDE)  
UP (OUTSIDE)



VERTICAL  
DOWN (INSIDE)  
DOWN (OUTSIDE)



VERTICAL  
UP (INSIDE)  
DOWN (OUTSIDE)



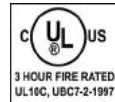
VERTICAL  
DOWN (INSIDE)  
UP (OUTSIDE)

### INSTALLATION OPTIONS

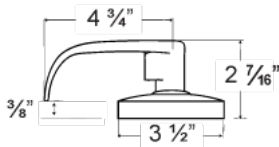
# GENESYS

CLUTCH MECHANISM  
FIXED THRU BOLT INSTALLATION

Interchangeable Core for  
**BEST, FALCON & ARROW**



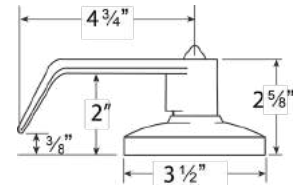
**SPA DESIGN**



**GN DESIGN**

**CLUTCH**

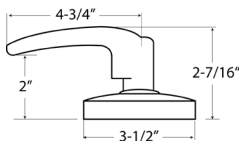
Free turning handle in the locked position,  
without retracting the latch  
to help prevent breaking of handle



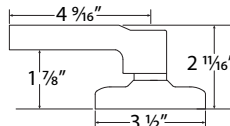
Meets ADA requirements  
Specially designed for  
Barrier Free Application  
Conforms with ANSI / BHMA A156.2,  
Series 4000, Grade 1 Requirements  
Exceeds 1,000,000 Cycles



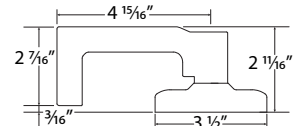
**AT DESIGN**



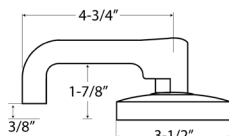
**LON DESIGN**



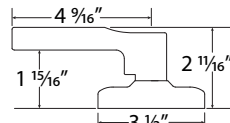
**TAC DESIGN**



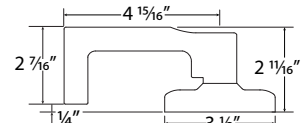
**TUB DESIGN**



**DAN DESIGN**



**AUG DESIGN**



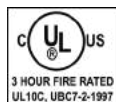
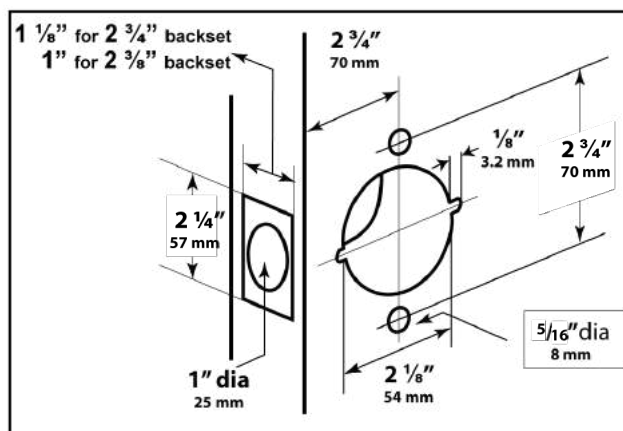
# GENESYS SERIES FINISHES AND SPECIFICATIONS



FINISHES AVAILABLE		
BHMA SYMBOL	US CODE	DESCRIPTION
605	US3	Polished Brass
606	US4	Satin Brass
609	US5	Antique Brass
612	US10	Satin Bronze
613	US10B	Oil Rubbed Bronze
613E	US10BE	Dark Satin Bronze, Equivalent
619	US15	Satin Nickel
625	US26	Polished Chrome
626	US26D	Satin Chrome
630	US32D	Satin Stainless Steel

Refer to price list for stock finishes and functions

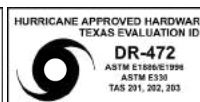
## DOOR PREPARATION



**LIFETIME WARRANTY**

**BHMA CERTIFIED**  
Be Safe. Be Secure. Look for the Mark.

**MEETS**  
The Buy American Act



## SPECIFICATIONS

### GENERAL:

Full length 4 3/4" lever handle with 3/8" return on GN and SPA Design.  
Rose diameter 3 1/2". Key removable outside lever for fast re-keying.  
Non-handed levers. Concealed mounting screws.

### CLUTCH:

Free turning handle in the lock position without retracting the latch, to deter breaking of handle.

### APPLICATIONS:

For offices, schools, hospitals, apartments, hotel / motel, residential, commercial and public buildings.

### DOOR RANGES:

1 3/8" to 1 3/4" thickness. 2" to 2 1/4" thickness also available on request.

### ANSI STANDARDS:

Meets or exceeds ANSI / BHMA A156.2 Series 4000, Grade 1 requirements.

### CYLINDER & KEYWAYS:

6 pin solid brass "C" keyway standard. Schlage E, Schlage C-K, Russwin D1-2-3-4, Corbin 59/60, OCorbin-Russwin L4, Sargent LA-LB-LC, Falcon / Weiser E, Arrow A, Yale 8, Yale GA and Kwikset. Can also accept Medeco, Assa, Kaba and Cal-Royal (HSK) High Security Cylinders.

### LATCH FACEPLATE:

Standard 2 1/4" x 1 1/8" for 2 3/4" backset.  
Optional 2 1/4" x 1" for 2 3/8" backset.

### STRIKES:

ASA 1 1/4" x 4 7/8" standard. Other strikes available upon request.

### TRIM:

Thru-bolted assembly through door with separate spring cage for each lever.

### HOUSING:

Cold Rolled Steel and Zinc Dichromate finish for rust resistance with precision cast steel retractor. 2 1/8" diameter bore.

### SMALL FORMAT INTERCHANGEABLE CORE (IC):

Interchangeable Core locks will accept compatible 6 or 7 pin cores with **BEST, FALCON and ARROW**. Prefix "IC" before part number.

### LARGE FORMAT INTERCHANGEABLE CORE (IC):

Also available with **SCHLAGE, CORBIN / RUSSWIN, SARGENT and YALE** large format cylinders. For Schlage, Corbin / Russwin, Sargent and Yale format specifications, **refer to page 29**.

### LATCH OPTIONS:

2 3/4" standard, brass with 1/2" throw. 2 3/8", 3 3/4" and 5" backset optional. GND750 deadlatch reversible for flat and beveled door. 3/4" throw anti-friction deadlatch for pair of fire doors.

### ELECTRIFIED LOCKS, TACTILE & LEAD LINING:

available upon request.

**SEE PAGE 28 ON HOW TO ORDER AND FOR LIST OF AVAILABLE FUNCTIONS**



# GENESYS US32D

## CLUTCH MECHANISM

## FIXED THRU BOLT INSTALLATION

## Interchangeable Core for BEST, FALCON & ARROW

## ALL STAINLESS STEEL EXTERIOR

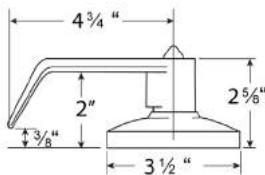
### Includes:

Grade 304 SS Lever,

Grade 304 SS Rose,

Corrosion Resistant Material

ASA Strike and Latch Faceplate



GN DESIGN

REFER TO PAGE 28 FOR  
AVAILABLE FUNCTIONS



### CLUTCH

Free turning handle in the locked position, without retracting the latch to help prevent breaking of handle.



Meets ADA requirements  
Specially designed for  
Barrier Free Application  
Conforms with ANSI / BHMA A156.2,  
Series 4000, Grade 1 Requirements  
Exceeds 1,000,000 Cycles

## SPECIFICATIONS

### GENERAL

Full length 4 3/4" lever handle with 3/8" return  
Rose diameter 3 1/2". Key removable outside lever for fast re-keying.  
Non-handed levers. Concealed mounting screws.

### CLUTCH

Free turning handle in the lock position without retracting the latch, to deter breaking of handle.

### APPLICATIONS

For offices, schools, hospitals, corrosive environments, commercial and public buildings.

### DOOR RANGES

1 3/8" to 1 3/4" thickness. 2" to 2 1/4" thickness also available on request.

### ANSI STANDARDS

Meets or exceeds ANSI / BHMA A156.2 Series 4000, Grade 1 requirements.

### LATCH FACEPLATE

Standard 2 1/4" x 1 1/8" for 2 3/4" backset. Optional 2 1/4" x 1" for 2 3/8" backset.

### STRIKES

ASA 1 1/4" x 4 7/8" standard. Other strikes available upon request.

### CYLINDER & KEYWAYS

6 pin solid brass "C" keyway standard. Schlage E, Schlage C-K, Russwin D1-2-3-4, Corbin 59/60, Corbin-Russwin L4, Sargent LA-LB-LC, Falcon / Weiser E, Arrow A, Yale 8, Yale GA and Kwikset. Can also accept Medeco, Assa, Kaba and Cal-Royal (HSK) High Security Cylinders.

### TRIM

Thru-bolted assembly through door with separate spring cage for each lever.

### HOUSING

Cold Rolled Steel and Zinc Dichromate finish for rust resistance with precision cast steel retractor. 2 1/8" diameter bore.

### INTERCHANGEABLE CORE (IC)

Interchangeable Core locks will accept compatible 6 or 7 pin cores with BEST, FALCON and ARROW. **Refer to page 29 for SCHLAGE, CORBIN / RUSSWIN, SARGENT and YALE large format specifications.**

### LATCH OPTIONS

2 3/4" standard, brass with 1/2" throw. 2 3/8", 3 3/4" and 5" backset optional. GND750 deadlatch reversible for flat and beveled door. 3/4" throw anti-friction deadlatch for pair of fire doors.

**ELECTRIFIED LOCKS, TACTILE & LEAD LINING** available upon request.

# GENESYS SERIES FUNCTIONS

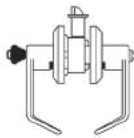


## HOW TO ORDER:

For "AT", "SPA", "TUB", "AUG", "DAN", "LON", or "TAC" designs, replace design name.

Example: CGN00 entrance in "AT" is CAT00.

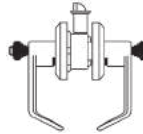
**CGN00**  
**ICCGN00**  
ANSI: F109  
FED#161A



### ENTRANCE / OFFICE LOCK

Turn / Push button locking. Pushing and turning button locks outside lever requiring use of key until button is manually unlocked. Pushing button locks outside lever until unlocked with key or inside lever is turned.

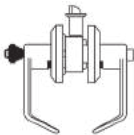
**CGN06**  
**ICCGN06**  
ANSI: F88  
FED#161C



### VESTIBULE

Deadlocking latch bolt operated by lever from either side except when outside lever is locked by key from inside. Latch bolt may be retracted by key in outside lever or by rotating inside lever.

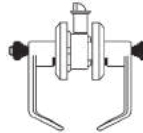
**CGN01**  
**ICCGN01**  
ANSI: F82  
FED#161B



### ENTRANCE LOCK PUSH BUTTON

Pushing button in inside lever locks outside lever. Turning inside lever or operating key in outside lever releases button automatically. Closing door does not release button. Button cannot be fixed in lock position. Inside lever always free. Latch bolt automatically deadlocks when door is closed.

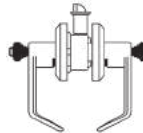
**CGN07**  
**ICCGN07**  
ANSI: F110



### CLASSROOM / INTRUDER

Latch bolt is operated by rotating the inside lever, or rotating the outside lever only when not locked from the inside or outside key.

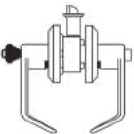
**CGN09**  
**ICCGN09**  
ANSI: F87  
FED#161W



### INSTITUTION

Deadlocking latch bolt operated by key in lever from either side. Both lever always fixed.

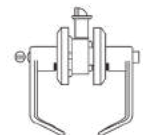
**GN101**  
ANSI: F90  
FED#161T



### DORMITORY NON-CLUTCH

Deadlocking latch bolt operated by lever from either side except when outside lever is locked by key or by push button on inside lever. Key in outside lever locks or unlocks outside lever. Outside key releases push button when locked from inside. Rotating inside lever or closing the door releases push button. (Non Clutch)

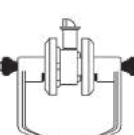
**CGN20**  
ANSI: F76  
FED#161L



### PRIVACY LOCK

Latch bolt operated by lever from either side. Outside lever is locked by push button inside and unlocked by emergency release outside. Turning inside lever or closing door releases push button.

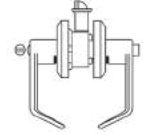
**GN02**  
**ICGN02**  
ANSI: F91  
FED#161G



### STORE LOCK NON-CLUTCH

Deadlocking latch bolt operated by lever from either side, except when both levers are locked by key in lever from either side. (Non Clutch)

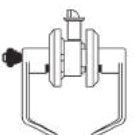
**HCGN20**



### HOSPITAL PRIVACY LOCK

Latch bolt operated by lever from either side. Outside lever is locked by push button inside and unlocked by turning turn button. Turning inside lever or closing door releases push button.

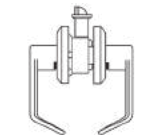
**CGN03**  
**ICCGN03**  
ANSI: F84  
FED#161R



### CLASSROOM LOCK

Deadlocking latch bolt operated by lever from either side except when outside lever is locked from outside by key. When outside lever is locked, latch bolt is operated by turning inside lever.

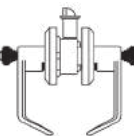
**GN30**  
ANSI: F75  
FED#161N



### PASSAGE SET

Latch bolt operated by lever from either side at all times.

**CGN04**  
**ICCGN04**  
ANSI: F80  
FED#161S



### COMMUNICATING LOCK

Deadlocking latch bolt operated by lever from either side. Turning key in either lever locks or unlocks its own lever independently.

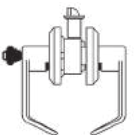
**GN40**



### DUMMY LEVER

Single dummy trim for one side of door. Pull only.

**CGN05**  
**ICCGN05**  
ANSI: F86  
FED#161D



### STOREROOM LOCK

Deadlocking latch bolt operated by key in outside lever or by rotating inside lever. Outside lever is always locked.

**GN50**  
ANSI: F89



### EXIT LOCK

Blank plate outside. Inside lever always unlocked.

⌘ Indicates function available with BEST, FALCON & ARROW Interchangeable Core.

OTHER FUNCTIONS NOT LISTED AVAILABLE UPON REQUEST

# GENESYS

## CLUTCH MECHANISM

## FIXED THRU BOLT INSTALLATION

**Interchangeable Core for SCHLAGE,  
SARGENT, CORBIN / RUSSWIN, & YALE**

 Meets ADA requirements  
Specially designed for  
Barrier Free Application  
Conforms with ANSI / BHMA A156.2,  
Series 4000, Grade 1 Requirements  
Exceeds 1,000,000 Cycles

### CLUTCH

Free turning handle in the  
locked position, without  
retracting the latch to help  
prevent breaking of handle

**\*\*YALE LFIC ONLY AVAILABLE IN  
GN, AT, SPA LEVER DESIGNS**



**GN DESIGN**



**SPA DESIGN**



**AT DESIGN**



**AUG DESIGN**



**DAN DESIGN**



**LON DESIGN**



**TAC DESIGN**

## SPECIFICATIONS

### GENERAL

Full length 4 3/4" lever handle with 3/8" return on GN and SPA Design.  
Rose diameter 3 1/2". Key removable outside lever for fast re-keying.  
Non-handed levers. Concealed mounting screws.

### CLUTCH

Free turning handle in the lock position without retracting the latch,  
to deter breaking of handle.

### APPLICATIONS

For offices, schools, hospitals, apartments, hotel / motel, residential,  
commercial and public buildings.

### DOOR RANGES

1 3/8" to 1 3/4" thickness. 2" to 2 1/4" thickness also available on request.

### HOUSING

Cold Rolled Steel and Zinc Dichromate finish for rust resistance with  
precision cast steel retractor. 2 1/8" diameter bore.

### ANSI STANDARDS

Meets or exceeds ANSI / BHMA A156.2 Series 4000, Grade 1 requirements.

### TRIM

Thru-bolted assembly through door with separate spring cage for each lever.

### LARGE FORMAT INTERCHANGEABLE CORE (IC)

Interchangeable Core locks will accept compatible 6 or 7 pin cores with  
**CORBIN / RUSSWIN**, 6 pin cores with **SARGENT**, and **SCHLAGE** large format  
cylinders in all seven lever designs (**GN, AT, SPA, AUG, DAN, LON, and TAC**);  
6 pin cores **YALE** large format cylinders in **GN, AT, and SPA** lever designs only.

### LATCH OPTIONS

2 3/4" standard, brass with 1/2" throw. 2 3/8", 3 3/4" and 5" backset optional. GND750  
deadlatch reversible for flat and beveled door. 3/4" throw anti-friction deadlatch for  
pair of fire doors.

### LATCH FACEPLATE

Standard 2 1/4" x 1 1/8" for 2 3/4" backset.  
Optional 2 1/4" x 1" for 2 3/8" backset.

### STRIKES

ASA 1 1/4" x 4 7/8" standard. Other strikes available upon request.

**ELECTRIFIED LOCKS, TACTILE & LEAD LINING** available upon request.

*See reverse page on how to order*



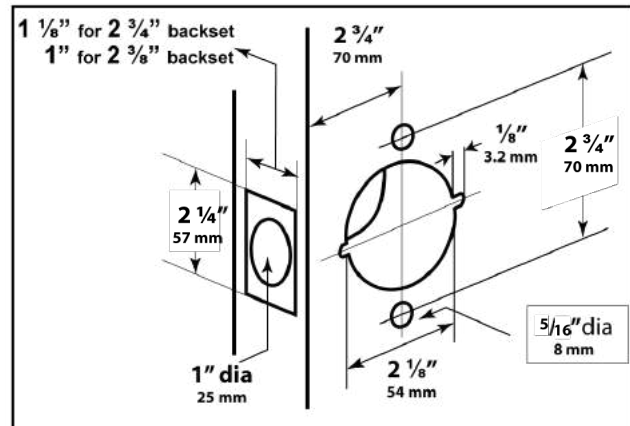
# GENESYS SERIES FINISHES AND FUNCTIONS



FINISHES AVAILABLE		
BHMA SYMBOL	US CODE	DESCRIPTION
605	US3	Polished Brass
606	US4	Satin Brass
609	US5	Antique Brass
612	US10	Satin Bronze
613	US10B	Oil Rubbed Bronze
613E	US10BE	Dark Satin Bronze, Equivalent
619	US15	Satin Nickel
625	US26	Polished Chrome
626	US26D	Satin Chrome
630	US32D	Satin Stainless Steel

Refer to price list for stock finishes and functions

## DOOR PREPARATION



### HOW TO ORDER SCHLAGE LFIC

#### Design:

CGN / CSPA / CAT / CAUG /  
CDAN / CLON / CTAC

- Replace "ICGYS" with "ICSC"
- Add: DESIGN + FUNCTION + FINISH when ordering.
- Example: ICGYS00 US26D in "SPA" design, Entrance function with US26D finish will be: "ICSCCSPA00 US26D"

### HOW TO ORDER CORBIN / RUSSWIN, SARGENT, YALE LFIC

#### Keyway: RUSIC / SARIC / YALIC

RUSIC - Corbin / Russwin Large Format IC  
SARIC - Sargent Large Format IC  
YALIC - Yale Large Format IC

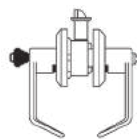
#### Design:

CGN / CSPA / CAT /  
CAUG / CDAN / CLON  
/ CTAC

**\*\*Note:** Yale LFIC is only available in GN, AT, SPA lever designs

- Specify: Replace "ICGYS" with specified KEYWAY,
- Add: DESIGN + FUNCTION + FINISH when ordering.
- Example: "ICGYS00 US26D with Corbin/Russwin Keyway, in "SPA" design, Entrance function with US26D finish will be: "RUSICCSPA00 US26D"

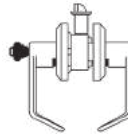
• ICGYS00  
RUSICCGN00  
SARICCGN00  
YALICCGN00  
ANSI: F109  
FED#161A



#### ENTRANCE / OFFICE LOCK

Turn / Push button locking. Pushing and turning button locks outside lever requiring use of key until button is manually unlocked. Pushing button locks outside lever until unlocked with key or inside lever is turned.

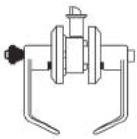
• ICGYS05  
RUSICCGN05  
SARICCGN05  
YALICCGN05  
ANSI: F86  
FED#161D



#### STOREROOM LOCK

Deadlocking latch bolt operated by key in outside lever or by rotating inside lever. Outside lever is always fixed.

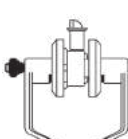
• ICGYS101  
RUSICCGN101  
SARICCGN101  
YALICCGN101  
ANSI: F90  
FED#161T



#### DORMITORY NON-CLUTCH

Deadlocking latch bolt operated by lever from either side except when outside lever is locked by key or by push button on inside lever. Key in outside lever locks or unlocks outside lever. Outside key releases push button when locked from inside. Rotating inside lever or closing the door releases push button. (Non Clutch)

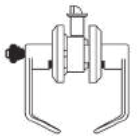
• ICGYS06  
RUSICCGN06  
SARICCGN06  
YALICCGN06  
ANSI: F88  
FED#161C



#### VESTIBULE

Deadlocking latch bolt operated by lever from either side except when outside lever is locked by key from inside. Latch bolt may be retracted by key in outside lever or by rotating inside lever.

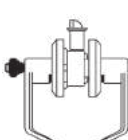
• ICGYS03  
RUSICCGN03  
SARICCGN03  
YALICCGN03  
ANSI: F84  
FED#161R



#### CLASSROOM LOCK

Deadlocking latch bolt operated by lever from either side except when outside lever is locked from outside by key. When outside lever is locked, latch bolt is operated by turning inside lever.

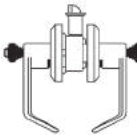
• ICGYS07  
RUSICCGN07  
SARICCGN07  
YALICCGN07  
ANSI: F110



#### CLASSROOM / INTRUDER

Latch bolt is operated by rotating the inside lever, or rotating the outside lever only when not locked from the inside or outside key.

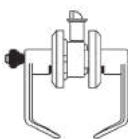
• ICGYS04  
RUSICCGN04  
SARICCGN04  
YALICCGN04  
ANSI: F80  
FED#161S



#### COMMUNICATING LOCK

Deadlocking latch bolt operated by lever from either side. Turning key in either lever locks or unlocks its own lever independently.

• ICGYS09  
RUSICCGN09  
SARICCGN09  
YALICCGN09  
ANSI: F87  
FED#161W



#### INSTITUTION

Deadlocking latch bolt operated by key in lever from either side. Both lever always fixed.

• Indicates function available with SCHLAGE, CORBIN / RUSSWIN, SARGENT and YALE Interchangeable Core.

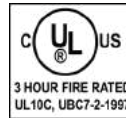
OTHER FUNCTIONS NOT LISTED AVAILABLE UPON REQUEST. SEE PAGE 108 FOR SPECIFICATION ON CYLINDERS

# CALYPSO

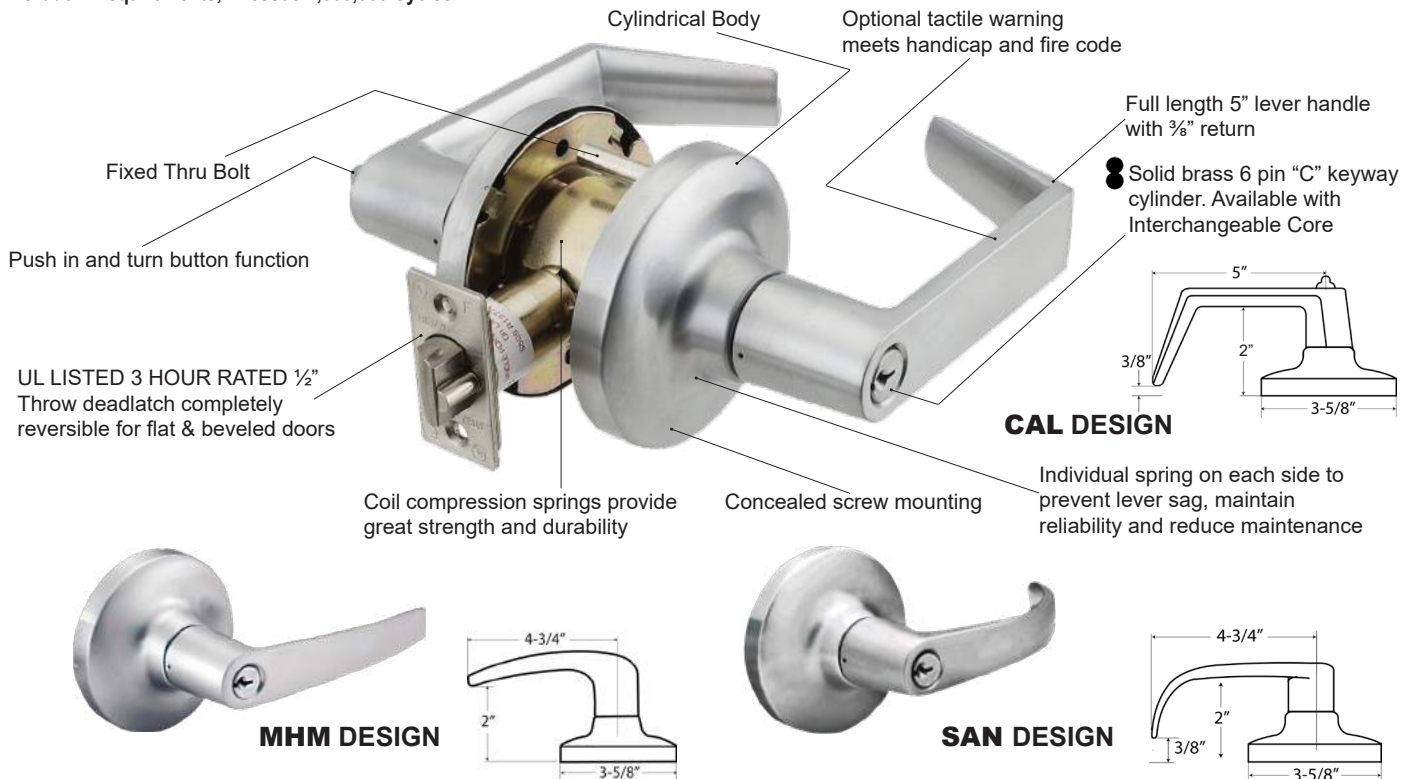
## CLUTCH MECHANISM FIXED THRU BOLT INSTALLATION



Meets ADA requirements  
Specially designed for Barrier Free Application  
Conforms with ANSI / BHMA A156.2, Series 4000,  
Grade 1 Requirements, Exceeds 1,000,000 Cycles



**MEETS**  
*The Buy American Act*



### SPECIFICATIONS

#### APPLICATIONS

For offices, schools, hospitals, apartments, hotel / motel, residential, commercial and public buildings.

#### DOOR RANGES

1  $\frac{3}{8}$ " to 2" thickness doors.

#### BACKSET

2  $\frac{3}{4}$ " Standard, 2  $\frac{3}{8}$ ", 3  $\frac{3}{4}$ ", 5" and 2  $\frac{3}{4}$ " anti-friction latch with  $\frac{3}{4}$ " throw for pair of fire doors optional.

#### LATCH BOLT

$\frac{1}{2}$ " Throw solid brass, reversible for RH or LH applications. UL Listed.

#### LATCH FACEPLATE

2  $\frac{1}{4}$ " x 1  $\frac{1}{8}$ ", adjustable for flat or beveled doors  
 $\frac{1}{8}$ " in 2", for 2  $\frac{3}{4}$ " backset.  
Optional 2  $\frac{1}{4}$ " x 1  $\frac{1}{8}$ " for 2  $\frac{3}{8}$ " backset.

#### STRIKES

ASA strike standard, "T" and full lip strike available on request.

#### EXPOSED TRIM

Wrought brass, bronze or stainless steel, levers are zinc casting, plated to match trim finish.

#### CYLINDER & KEYWAYS

6 pin solid brass "C" keyway standard. Schlage E, Schlage C-K, Russwin D1-2-3-4, Corbin 59 / 60, Corbin-Russwin L4, Sargent LA-LB-LC, Falcon / Weiser E, Arrow A, Yale 8, Yale GA and Kwikset. Can also accept Medeco, Assa, Kaba and Cal-Royal (HSK) High Security Cylinders.

#### INTERCHANGEABLE CORE

Interchangeable Core locks will accept compatible 6 or 7 pin cores with BEST, FALCON and ARROW. Prefix "IC" before part number. Available combined or uncombined. Temporary construction cores available. Factory keying with control key and master key available.

#### ANSI STANDARDS

Meets or exceeds requirements of ANSI / BHMA A156.2 Series 4000, Grade 1

**TACTILE & LEAD LINING** available upon request.



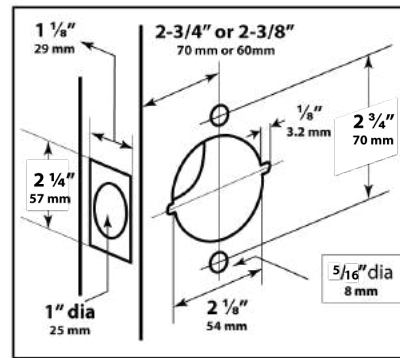
# CALYPSO CAL SERIES FINISHES AND FUNCTIONS



FINISHES AVAILABLE		
BHMA SYMBOL	US CODE	DESCRIPTION
605	US3	Polished Brass
606	US4	Satin Brass
609	US5	Antique Brass
612	US10	Satin Bronze
613	US10B	Oil Rubbed Bronze
619	US15	Satin Nickel
625	US26	Polished Chrome
626	US26D	Satin Chrome

Refer to price list for stock finishes and functions

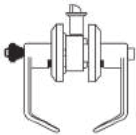
## DOOR PREPARATION



**LIFETIME  
WARRANTY**



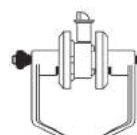
**CAL00**  
**ICCAL00**  
ANSI: F109  
FED#161A



### ENTRANCE / OFFICE LOCK

Turn / Push button locking. Pushing and turning button locks outside lever requiring use of key until button is manually unlocked. Pushing button locks outside lever until unlocked with key or inside lever is turned.

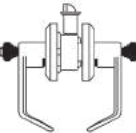
**CAL07**  
**ICCAL07**  
ANSI: F110



### CLASSROOM INTRUDER

Latch bolt is operated by rotating the inside lever, or rotating the outside lever only when not locked from the inside or outside key. Outside lever is locked and unlocked by turning the key inside or outside lever. Inside lever cannot be locked.

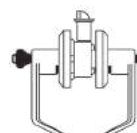
**CAL02**  
**ICCAL02**  
ANSI: F91  
FED#161G



### STORELOCK

Dead locking latch bolt operated by lever from either side, except when both levers are locked by key in lever from either side.

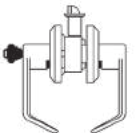
**CAL09**  
**ICCAL09**  
ANSI: F87  
FED#161W



### INSTITUTION

Dead locking latch bolt operated by key in lever from either side. Both lever always fixed.

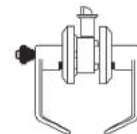
**CAL03**  
**ICCAL03**  
ANSI: F84  
FED#161R



### CLASSROOM

Dead locking latch bolt operated by lever from either side except when outside lever is locked from outside by key. When outside lever is locked, latch bolt is operated by turning inside lever.

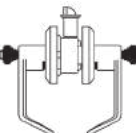
**CAL101**  
**ICCAL101**  
ANSI: F90  
FED#161T



### DORMITORY

Dead locking latch bolt operated by lever from either side except when outside lever is locked by key or by push button on inside lever. Key in outside lever locks or unlocks outside lever. Outside key releases push button when locked from inside. Rotating inside lever or closing the door releases push button.

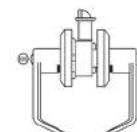
**CAL04**  
**ICCAL04**  
ANSI: F80  
FED#161S



### COMMUNICATING

Dead locking latch bolt operated by lever from either side. Turning key in either lever locks or unlocks its own lever independently.

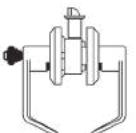
**CAL20**  
ANSI: F76  
FED#161L



### PRIVACY LOCK

Latch bolt operated by lever from either side. Outside lever is locked by push button inside and unlocked by emergency release outside. Turning inside lever or closing door releases push button.

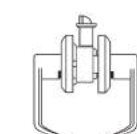
**CAL05**  
**ICCAL05**  
ANSI: F86  
FED#161D



### STOREROOM

Dead locking latch bolt operated by key in outside lever or by rotating inside lever. Outside lever is always fixed.

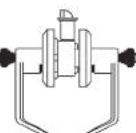
**CAL30**  
ANSI: F75  
FED#161N



### PASSAGE SET

Latch bolt operated by lever from either side at all times.

**CAL06**  
**ICCAL06**  
ANSI: F88  
FED#161C



### VESTIBULE

Dead locking latch bolt operated by lever from either side except when outside lever is locked by key from inside. Latch bolt may be retracted by key in outside lever or by rotating inside lever.

**CAL40**



### DUMMY LEVER

Single dummy trim for one side of door. Pull only.

“IC” Indicates function available with BEST, FALCON & ARROW Interchangeable Core.

**HOW TO ORDER:** For “SPA” or “MHM” designs, replace design name.  
Example: CAL00 Entrance in “SAN” is SAN00.

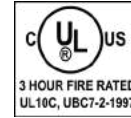
OTHER FUNCTIONS NOT LISTED AVAILABLE UPON REQUEST

# LRC SERIES

## Grade 1 Heavy Duty Cylindrical Lockset with Ligature Resistant Lever



Meets ADA requirements  
Specially designed for Barrier Free Application  
Conforms with ANSI / BHMA A156.2, Series 4000,  
Grade 1 Requirements, Exceeds 1,000,000 Cycles



**MEETS**  
*The Buy American Act*

**LIFETIME**  
**WARRANTY**



### SPECIFICATIONS

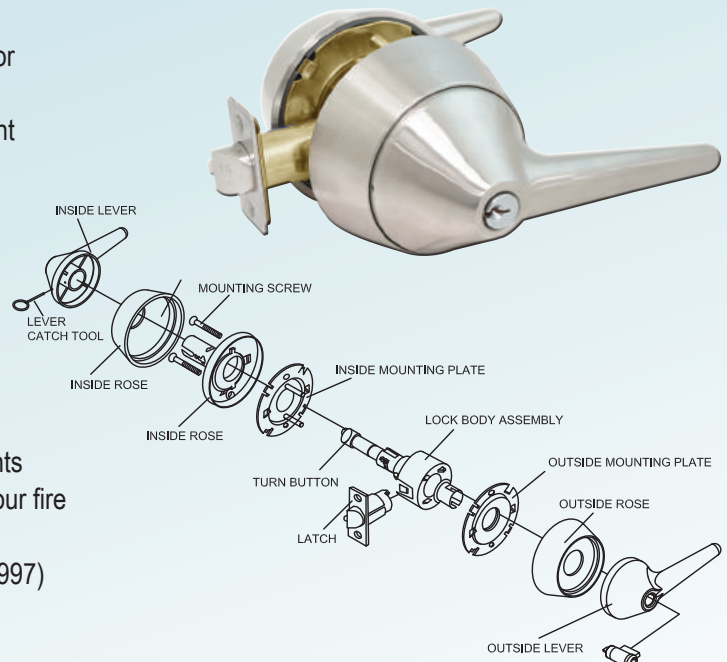
- For 1  $\frac{3}{8}$ " to 2" thickness doors
- 2  $\frac{3}{4}$ " Backset Standard, 2  $\frac{1}{4}$ " x 1  $\frac{1}{8}$ " Latch Faceplate,
- 2  $\frac{3}{8}$ ", 3  $\frac{3}{4}$ ", 5" and 2  $\frac{3}{4}$ " Anti-Friction Latch Optional
- UL Listed,  $\frac{1}{2}$ " Throw Solid Brass
- Reversible for RH or LH applications
- ASA Strike Standard
- Heavy Duty Stainless Steel Rose and Lever Trim
- Tamper Resistant Concealed Mounting Set Screws
- 6-Pin Solid Brass Schlage "C" Keyway Standard
- Small Format IC available combined or uncombined, 6 or 7 pin cores with BEST, FALCON, and ARROW. Prefix "IC" before part number.

### FEATURES

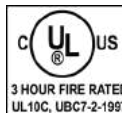
- For Behavioral and Health Care facilities
- Lever clutch free-wheeling design helps to prevent intentional or accidental hanging.
- The lever rotates when in locked or unlocked position to prevent excessive force and decreases the chance of the lever being broken or damaged
- Anti-vandal cylinder guard is standard, deters forcible removal of cylinder with any type of wrench or hammer
- Different functions available to satisfy individual security and safety requirements

### CERTIFICATIONS

- Meets ANSI / BHMA A156.2 Series 4000, Grade 1 Requirements
- UL and cUL listed to Canadian safety standard for A label (3-hour fire door); stamped letter "F" and UL symbol on armor faceplate
- Meets positive pressure requirements UL 10C and UBC 7-2 (1997)
- Meets requirements of the Buy American Act
- Meets requirements of the Americans with Disabilities Act



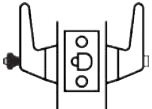

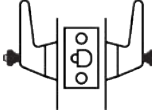

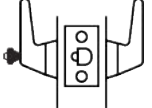

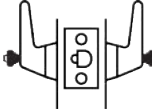

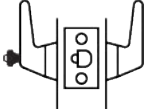

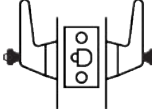

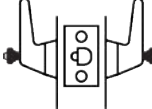

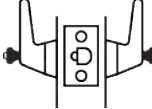

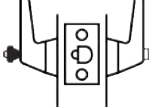

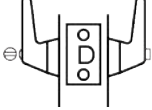

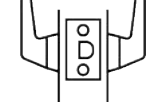


FINISH AVAILABLE		
BHMA SYMBOL	US CODE	DESCRIPTION
630	US32D	Satin Stainless Steel



**MEETS**  
*The Buy American Act*

**LIFETIME WARRANTY**

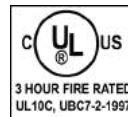
**BHMA CERTIFIED**  
Be Safe. Be Secure. Look for the Mark.

OUTSIDE	INSIDE	SERIES/FUNCTION	TYPE	ANSI	FUNCTION DESCRIPTION
		<b>LRC00</b> <b>ICLRC00</b>	<b>Entrance / Office Lock</b>	<b>F109</b>	Turn / Push button locking. Pushing and turning button locks outside lever requiring use of key until button is manually unlocked. Pushing button locks outside lever until unlocked with key or inside lever is turned.
		<b>LRC02</b> <b>ICLRC02</b>	<b>Storelock</b>	<b>F91</b>	Dead locking latch bolt operated by lever from either side, except when both levers are locked by key in lever from either side.
		<b>LRC03</b> <b>ICLRC03</b>	<b>Classroom</b>	<b>F84</b>	Dead locking latch bolt operated by lever from either side except when outside lever is locked from outside by key. When outside lever is locked, latch bolt is operated by turning inside lever.
		<b>LRC04</b> <b>ICLRC04</b>	<b>Communicating</b>	<b>F80</b>	Dead locking latch bolt operated by lever from either side. Turning key in either lever locks or unlocks its own lever independently.
		<b>LRC05</b> <b>ICLRC05</b>	<b>Storeroom</b>	<b>F86</b>	Dead locking latch bolt operated by key in outside lever or by rotating inside lever. Outside lever is always fixed.
		<b>LRC06</b> <b>ICLRC06</b>	<b>Vestibule</b>	<b>F88</b>	Dead locking latch bolt operated by lever from either side except when outside lever is locked by key from inside. Latch bolt may be retracted by key in outside lever or by rotating inside lever.
		<b>LRC07</b> <b>ICLRC07</b>	<b>Classroom Intruder</b>	<b>F110</b>	Latch bolt is operated by rotating the inside lever, or rotating the outside lever only when not locked from the inside or outside key. Outside lever is locked and unlocked by turning the key inside or outside lever. Inside lever cannot be locked.
		<b>LRC09</b> <b>ICLRC09</b>	<b>Institution</b>	<b>F87</b>	Dead locking latch bolt operated by key in lever from either side. Both lever always fixed.
		<b>LRC101</b> <b>ICLRC101</b>	<b>Dormitory</b>	<b>F90</b>	Dead locking latch bolt operated by lever from either side except when outside lever is locked by key or by push button on inside lever. Key in outside lever locks or unlocks outside lever. Outside key releases push button when locked from inside. Rotating inside lever or closing the door releases push button.
		<b>LRC20</b>	<b>Privacy</b>	<b>F76</b>	Latch bolt operated by lever from either side. Outside lever is locked by push button inside and unlocked by emergency release outside. Turning inside lever or closing door releases push button.
		<b>LRC30</b>	<b>Passage</b>	<b>F75</b>	Latch bolt operated by lever from either side at all times.
		<b>LRC40</b>	<b>Dummy</b>	---	Single dummy trim for one side of door. Pull only.

● "IC" Indicates function available with BEST, FALCON & ARROW Interchangeable Core.

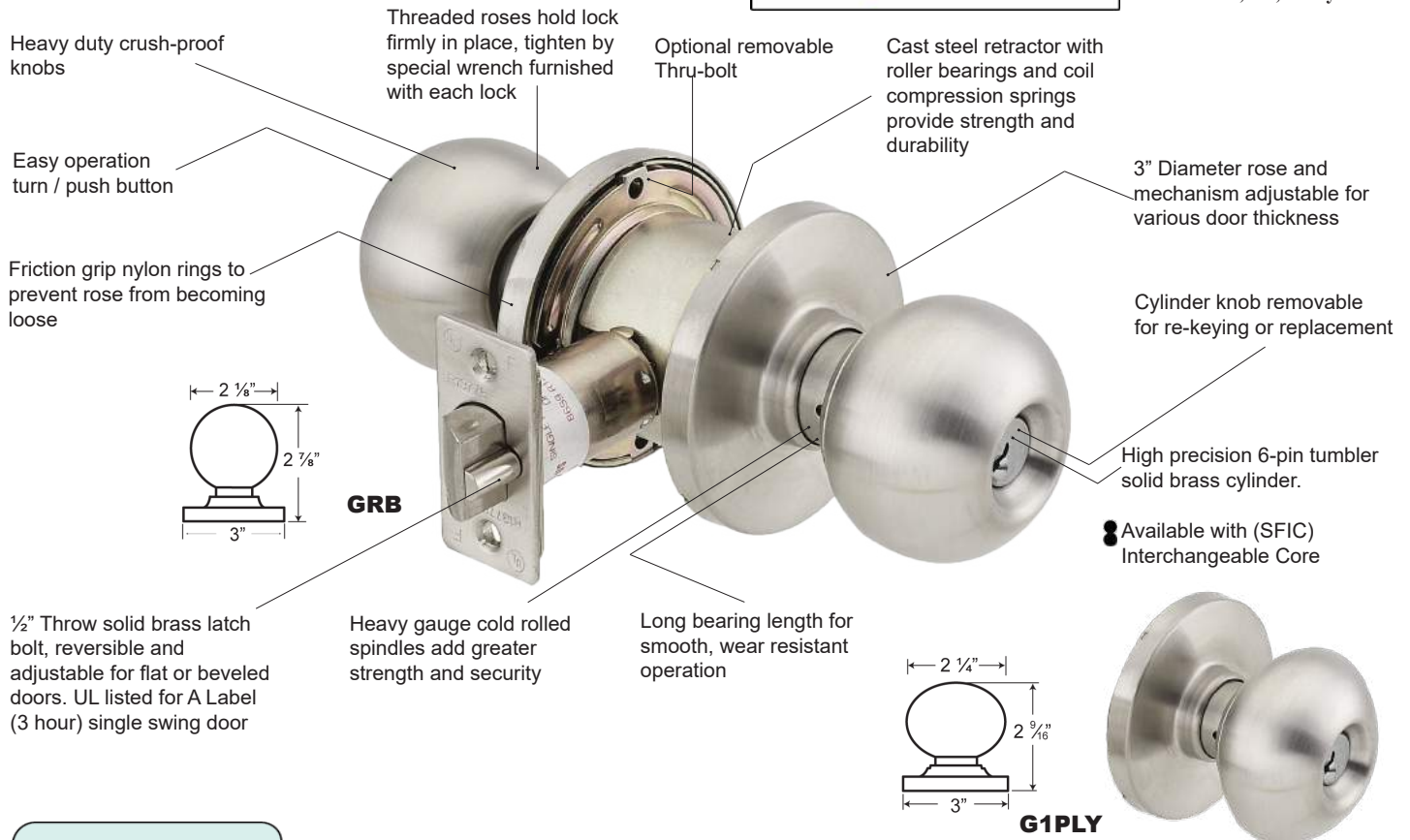
# OMEGA

QUALITY DESIGNED AND ENGINEERED  
FOR COMMERCIAL BUILDINGS  
OPTIONAL THRU BOLT INSTALLATION



**MEETS**  
*The Buy American Act*

Conforms with  
BHMA/ANSI A156.2  
Series 4000, Grade 1  
Exceeds 1,000,000 cycles



## SPECIFICATIONS

### DOOR RANGES

Adjustable 1 3/8" to 2" door thickness.

### BACKSET

2 3/4" Standard, 2 3/8", 3 3/4", 5" and 2 3/4" anti-friction latch with 3/4" throw for pair of fire doors optional.

### LATCH FACEPLATE

Standard 2 1/4" x 1 1/8" for 2 3/4" backset.  
Optional 2 1/4" x 1 1/8" for 2 3/8" backset.

### STRIKES

ASA strike standard, 4 7/8" x 1 1/4". Optional "T" and full lip strike available on request.

### KEYWAY

6-pin "C" keyway cylinder, 2 keys per lock.

### BORE DIAMETER

1" for latch. 2 1/8" for lock housing.

### HANDING

Completely reversible.

### ADDITIONAL KEYWAYS

6 pin solid brass "C" keyway standard. Schlage E, Schlage C-K, Russwin D1-2-3-4, Corbin 59 / 60, Corbin-Russwin L4, Sargent LA-LB-LC, Falcon / Weiser E, Arrow A, Yale 8, Yale GA and Kwikset. Can also accept Medeco, Assa, Kaba and Cal-Royal (HSK) High Security Cylinders.

### ELECTRIFIED LOCKS, TACTILE & LEAD LINING

Available upon request.

### INTERCHANGEABLE CORE

Interchangeable Core locks will accept compatible 6 or 7 pin cores with BEST, FALCON and ARROW. Prefix "IC" before part number. Available combined or uncombined. Temporary construction cores available. Factory keying with control key and master key available.

### EXPOSED TRIM

Wrought brass, bronze or stainless steel.

### ANSI STANDARDS

Meets or exceeds requirements of BHMA / ANSI A156.2 Series 4000 for Grade 1 (FF-H-106C)

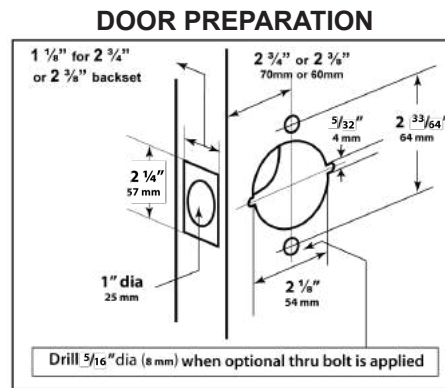


# OMEGA GRB SERIES FINISHES AND FUNCTIONS



FINISHES AVAILABLE		
BHMA SYMBOL	US CODE	DESCRIPTION
605	US3	Polished Brass
606	US4	Satin Brass
609	US5	Antique Brass
612	US10	Satin Bronze
613	US10B	Oil Rubbed Bronze
619	US15	Satin Nickel
625	US26	Polished Chrome
626	US26D	Satin Chrome
630	US32D	Satin Stainless Steel

Refer to price list for stock finishes and functions



**LIFETIME WARRANTY**

**BHMA CERTIFIED**  
Be Safe. Be Secure. Look for the Mark.

**UL US**  
3 HOUR FIRE RATED  
UL10C, UBC7-2-1997

**GRB00**  
**ICGRB00**  
ANSI F109



**ENTRANCE / OFFICE LOCK**  
Turn / Push button locking. Pushing and turning button locks outside knob requiring use of key until button is manually unlocked. Pushing button locks outside knob until unlocked with key or inside knob is turned.

**GRB09**  
**ICGRB09**  
ANSI F87



**INSTITUTION**  
Deadlocking latch bolt operated by key in knob from either side. Both knobs are always fixed.

**GRB01**  
**ICGRB01**  
ANSI F82




**ENTRANCE / PUSH BUTTON LOCK**  
Pushing button in inside knob locks outside knob. Turning inside knob or operating key in outside knob releases button automatically. Closing door does not release button. Button cannot be fixed in lock position. Inside knob always free. Latch bolt automatically deadlocks when door is closed.

**GRB80**  
**ICGRB80**



**EXIT LOCK / CONNECTING ROOM**  
Deadlocking latch bolt operated with key from inside only. Blank plate outside.

**GRB02**  
**ICGRB02**  
ANSI F91



**STORELOCK**  
Deadlocking latch bolt operated by knob from either side, except when both knobs are locked by key in knob from either side.

**GRB10**  
ANSI F77



**PATIO LOCK**  
Deadlocking latch bolt operated by knob from either side. Outside knob is locked by push button inside and unlocked by rotating inside knob or closing door.

**GRB03**  
**ICGRB03**  
ANSI F84



**CLASSROOM**  
Deadlocking latch bolt operated by knob from either side except when outside knob is locked from outside by key. When outside knob is locked, latch bolt is operated by turning inside knob.

**GRB20**  
ANSI F76




**PRIVACY LOCK**  
Latch bolt operated by knob from either side. Outside knob is locked by push button inside and unlocked by emergency release outside. Turning inside knob or closing door releases push button.

**GRB04**  
**ICGRB04**  
ANSI F80




**COMMUNICATING**  
Deadlocking latch bolt operated by knob from either side. Turning key in either knob locks or unlocks its own knob independently.

**GRB30**  
ANSI F75



**PASSAGE SET**  
Latch bolt operated by knob from either side at all times.

**GRB05**  
**ICGRB05**  
ANSI F86



**STOREROOM**  
Deadlocking latch bolt operated by key in outside knob or by rotating inside knob. Outside knob is always fixed.

**GRB40**



**DUMMY LEVER**  
Single dummy trim for one side of door. Pull only.

**GRB06**  
**ICGRB06**  
ANSI F88



**VESTIBULE**  
Deadlocking latch bolt operated by knob from either side except when outside knob is locked by key from inside. Latch bolt may be retracted by key in outside knob or by rotating inside knob.

**GRB50**  
ANSI F89



**EXIT LOCK**  
Deadlocking latch bolt by inside knob. Outside plate only.

“IC” Indicates function available with BEST, FALCON & ARROW Interchangeable Core.

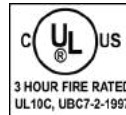
**HOW TO ORDER: For “G1PLY” Designs, replace design name.**  
**Example: GRB00 entrance in “G1PLY” is G1PLY00.**

**OTHER FUNCTIONS NOT LISTED AVAILABLE UPON REQUEST**



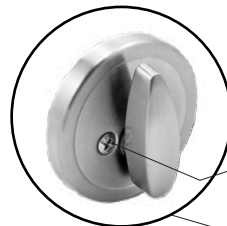
# CRB800 SERIES GRADE 1 HEAVY DUTY DEADBOLTS

FOR COMMERCIAL AND  
RESIDENTIAL APPLICATIONS



**MEETS**  
*The Buy American Act*

Meets ADA requirements  
Specially designed for  
Barrier Free Application  
Conforms with ANSI / BHMA  
A156.36, Grade 1 Requirements,  
Exceeds 250,000 Cycles



ADA Ergonomic  
Thumb Turn

Exposed mounting screws  
on single cylinder deadbolt

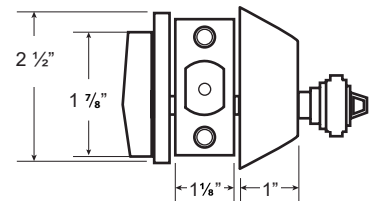
Steel mounting plate

Anti-pry shield  
(Zinc Alloy)

Free turning,  
wrench-resistant  
tapered cylinder ring

Sturdy, all steel latch  
case and mechanism

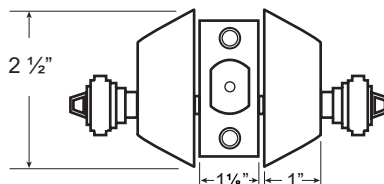
3HR UL Fire rated,  
1" (25mm) throw  
high-strength steel  
alloy deadbolt with  
anti-saw pin



**CRB800  
SINGLE CYLINDER**

Exposed mounting screws on  
double cylinder deadbolt

Removable Solid Brass  
Standard "C" 6-pin cylinder.



**CRB700  
DOUBLE CYLINDER**

- Available with Small Format Interchangeable Core
- Full Size Interchangeable Core for Schlage Available for Single Cylinder and Classroom only.

## SPECIFICATIONS

### TRIM

Wrought Brass or Stainless Steel.

### DOOR RANGES

Adjustable 1 3/8" (40mm) to 2" (51mm) door thickness.

### BACKSET

UL Listed 3 Hour Fire Rating 2 3/4" latch bolt.  
2 3/8" optional.

### DEADBOLT FACEPLATE

Standard 2 1/4" x 1 1/8" for 2 3/4" backset.  
Optional 2 1/4" x 1" for 2 3/8" backset.

### STRIKE

1 1/8" x 2 3/4" square corner. Extra security 1" throw bolt with 1/4" free spinning anti-cut through pin. 2 pcs x 3" screws with wood frame reinforcer greatly strengthens door frames.

### BORE DIAMETER

1" for latch, 2 1/8" for lock housing.

### KEYWAYS

6 pin solid brass "C" keyway standard. Schlage E, Schlage C-K, Russwin D1-2-3-4, Corbin 59 / 60, Corbin-Russwin L4, Sargent LA-LB-LC, Falcon / Weiser E, Arrow A, Yale 8, Yale GA and Kwikset. Can also accept Medeco, Assa, Kaba and Cal-Royal (HSK) High Security Cylinders.

### INTERCHANGEABLE CORE (IC)

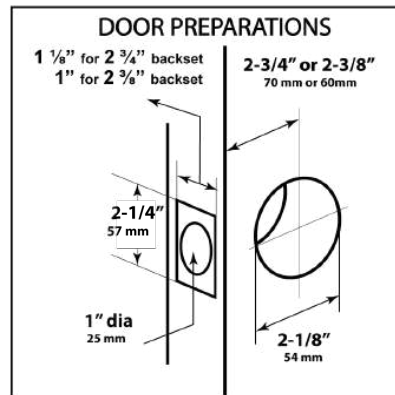
Interchangeable Core locks will accept compatible 6 or 7 pin cores with BEST, FALCON and ARROW. Also available with SCHLAGE large format cylinders.

# CRB800 SERIES FINISHES AND FUNCTIONS

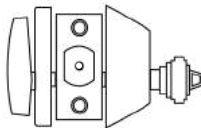


FINISHES AVAILABLE		
BHMA SYMBOL	US CODE	DESCRIPTION
605	US3	Polished Brass
606	US4	Satin Brass
609	US5	Antique Brass
612	US10	Satin Bronze
613	US10B	Oil Rubbed Bronze
619	US15	Satin Nickel
625	US26	Polished Chrome
626	US26D	Satin Chrome

Refer to price list for stock finishes and functions

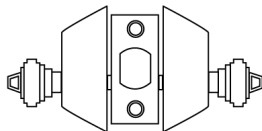


**CRB800**  
● **ICCRB800**  
● **ICSCCRB800**  
ANSI E0151



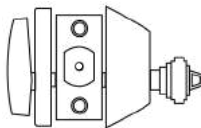
**Heavy Duty Single Cylinder Deadbolt**  
Deadbolt thrown or retracted by key from outside or by inside turn unit. Bolt automatically deadlocks when fully thrown.

**CRB700**  
● **ICCRB700**  
ANSI E0141



**Heavy Duty Double Cylinder Deadbolt**  
Deadbolt thrown or retracted by key from either side. Bolt automatically deadlocks when fully thrown.

**CRB600**  
● **ICCRB600**  
● **ICSCCRB600**  
ANSI E0171



**Classroom Deadbolt Lock**  
Deadbolt thrown or retracted by key outside. Inside turn unit will retract bolt only. Bolt automatically deadlocks when fully thrown.

## OTHER FUNCTIONS NOT LISTED ARE AVAILABLE UPON REQUEST

- "IC" Indicates functions available with Interchangeable Core compatible with 6 or 7 pin cores by Best, Falcon and Arrow.
- Full Size Interchangeable Core for Schlage Available for Single Cylinder and Classroom only.

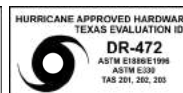
# PIONEER

**SL SERIES (NON-CLUTCH MECHANISM)**  
**CSL SERIES (CLUTCH MECHANISM)**  
**OPTIONAL THRU BOLT INSTALLATION**

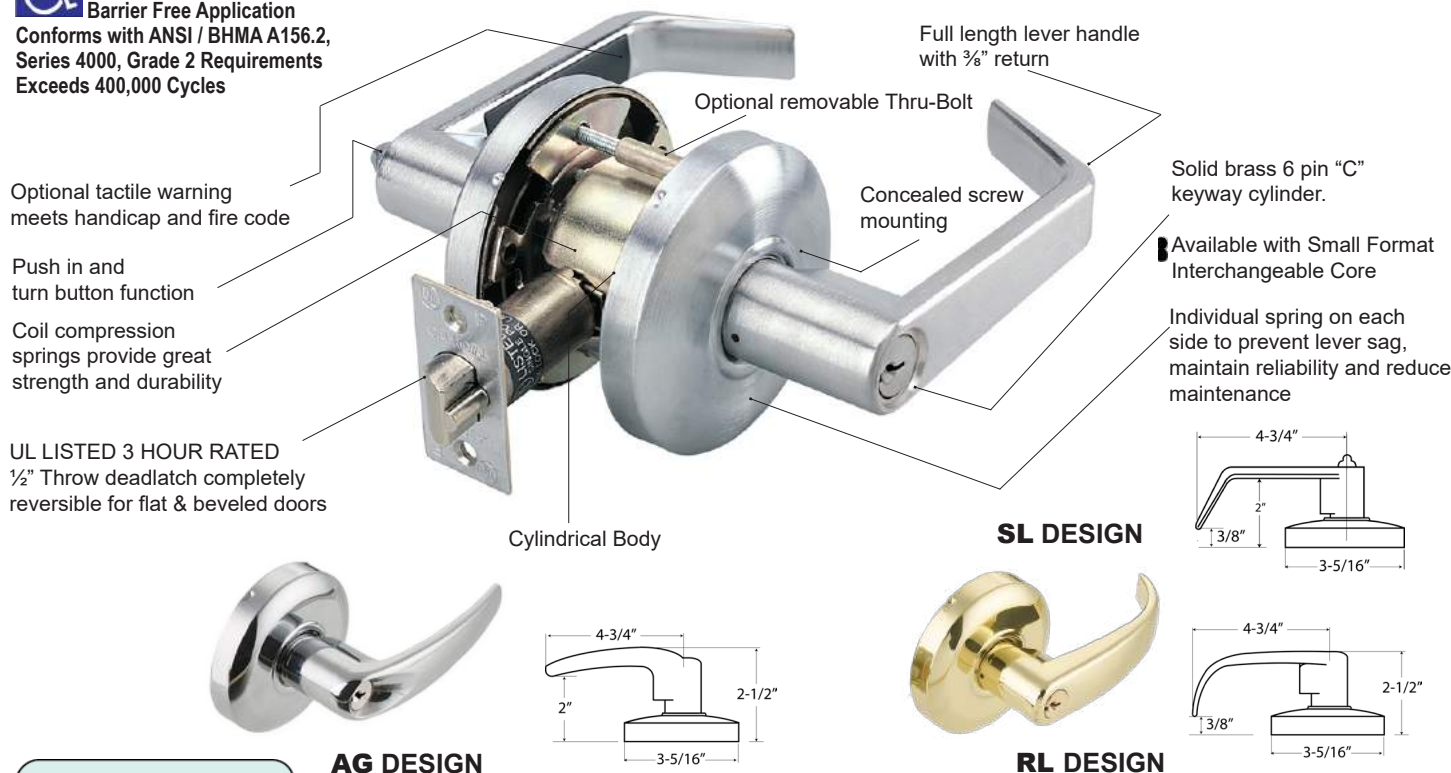
**LIFETIME  
WARRANTY**

**BHMA  
CERTIFIED**  
Be Safe. Be Secure. Look for the Mark.

**MEETS**  
*The Buy American Act*



Meets ADA requirements  
Specially designed for  
Barrier Free Application  
Conforms with ANSI / BHMA A156.2,  
Series 4000, Grade 2 Requirements  
Exceeds 400,000 Cycles



## SPECIFICATIONS

### APPLICATIONS

For offices, schools, hospitals, apartments, hotel / motel, residential, commercial and public buildings.

### DOOR RANGES

1  $\frac{3}{8}$ " to 1  $\frac{3}{4}$ " thickness doors.

### BACKSET

2  $\frac{3}{4}$ " Standard, 2  $\frac{3}{8}$ ", 3  $\frac{3}{4}$ " and 5" optional.

### LATCH BOLT

$\frac{1}{2}$ " Throw solid brass, reversible for RH or LH applications. UL Listed.

### LATCH FACEPLATE

2  $\frac{1}{4}$ " x 1  $\frac{1}{8}$ ", adjustable for flat or beveled doors  $\frac{1}{8}$ " in 2", for 2  $\frac{3}{4}$ " backset. Optional 2  $\frac{1}{4}$ " x 1" for 2  $\frac{3}{8}$ " backset.

### ANSI STANDARDS

Meets or exceeds requirements of BHMA / ANSI A156.2 Series 4000, Grade 2 (FF-H 106C), 400,000 cycles.

### EXPOSED TRIM

Wrought brass, bronze or stainless steel, levers are Zinc casting, plated to match trim finish.

### KEYING

6-pin "C" keyway cylinder, 2 keys per lock. Keying as per individual job requirement.

### CYLINDER & KEYWAYS

6 pin solid brass "C" keyway standard. Schlage E, Schlage C-K, Russwin D1-2-3-4, Corbin 59 / 60, Corbin-Russwin L4, Sargent LA-LB-LC, Falcon / Weiser E, Arrow A, Yale 8, Yale GA and Kwikset. Can also accept Medeco, Assa, Kaba and Cal-Royal (HSK) High Security Cylinders.

### CLUTCH

Clutch available on all keyed locks and privacy functions. Prefix "C" before part number.

### INTERCHANGEABLE CORE

Interchangeable Core locks will accept compatible 6 or 7 pin cores with BEST, FALCON and ARROW. Prefix "IC" before part number. Available combined or uncombined. Temporary construction cores available. Factory keying with control key and master key available.

### STRIKES

ASA strike standard, "T" and full lip strike available on request.

**TACTILE & LEAD LINING** available upon request.

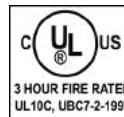






# EXPLORER

**XP SERIES (NON CLUTCH MECHANISM)**  
**CXP SERIES (CLUTCH MECHANISM)**  
**OPTIONAL THRU BOLT INSTALLATION**



Meets ADA requirements  
Specially designed for  
Barrier Free Application  
Conforms with BHMA / ANSI A156.2  
Series 4000, Grade 2,  
Exceeds 400,000 Cycles

Optional tactile warning meets  
handicap and fire code

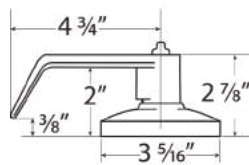
Optional removable Thru-Bolt

Push in and turn button  
function

Coil compression springs  
provide great strength and  
durability

Plastic filler for use  
on 1 1/8" door prep

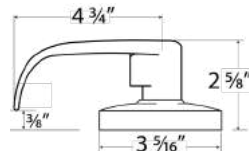
UL LISTED 3 HOUR RATED—  
1/2" Throw deadlatch completely  
reversible for flat & beveled doors



**XP DESIGN**



**XPRL DESIGN**



Individual spring on each side to prevent  
lever sag, maintain reliability and reduce  
maintenance

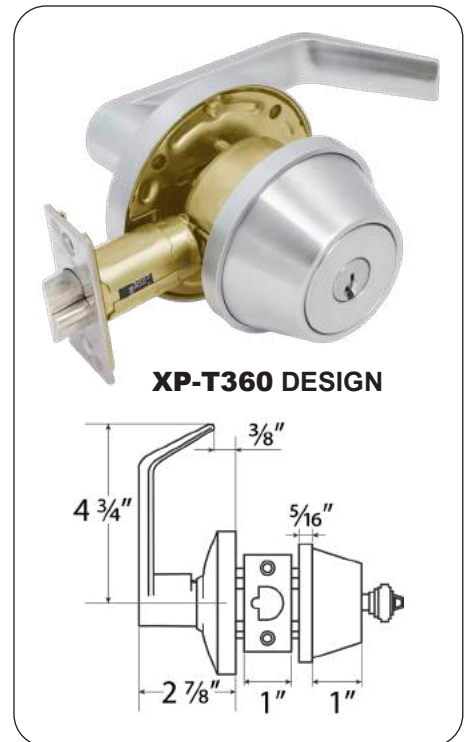
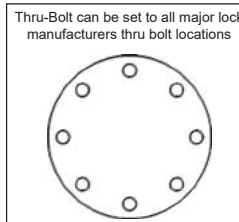
Cylindrical Body

Full length lever handle  
with 3/8" return

Concealed screw  
mounting

Solid brass 6 pin "C"  
keyway cylinder.

Available with Small Format  
Interchangeable Core



**XP-T360 DESIGN**

## SPECIFICATIONS

### APPLICATIONS

For offices, schools, hospitals, apartments, hotel / motel,  
residential, commercial and public buildings.

### DOOR RANGES

1 3/8" to 2" thickness doors; 1 3/4" Standard for **XP-T360**  
(Optional Adapter Ring for 1 3/8" thick doors for **XP-T360**)

### BACKSET

2 3/4" Standard, 2 3/8", 3 3/4" and 5" optional.;  
2 3/8" Standard for **XP-T360**

### LATCH BOLT

1/2" Throw solid brass, reversible for RH or LH applications. UL Listed.

### LATCH FACEPLATE

2 1/4" x 1", square corner packed with 1/8" filler for 1 1/8" width.

### ANSI STANDARDS

Meets or exceeds requirements of BHMA / ANSI A156.2  
Series 4000, Grade 2 (FF-H 106C), 400,000 cycles.

### STRIKES

ASA strike standard, "T" and full lip strike available on request.

### EXPOSED TRIM

Wrought Brass, Bronze or Stainless Steel. Levers are Zinc Casting,  
plated to match trim finish.

### KEYING

6-pin "C" keyway cylinder, 2 keys per lock. Keying as per individual job  
requirement.

### CYLINDER & KEYWAYS

6 pin solid brass "C" keyway standard. Schlage E, Schlage C-K, Russwin  
D1-2-3-4, Corbin 59 / 60, Corbin-Russwin L4, Sargent LA-LB-LC, Falcon /  
Weiser E, Arrow A, Yale 8, Yale GA and Kwikset. Can also accept Medeco,  
Assa, Kaba and Cal-Royal (HSK) High Security Cylinders.

### INTERCHANGEABLE CORE (IC)

Interchangeable Core locks will accept compatible 6 or 7 pin cores with  
BEST, FALCON and ARROW. Prefix "IC" before part number. Available  
combined or uncombined. Temporary construction cores available.  
Factory keying with control key and master key available.

**TACTILE & LEAD LINING** available upon request.

# EXPLORER XP SERIES FINISHES AND FUNCTIONS

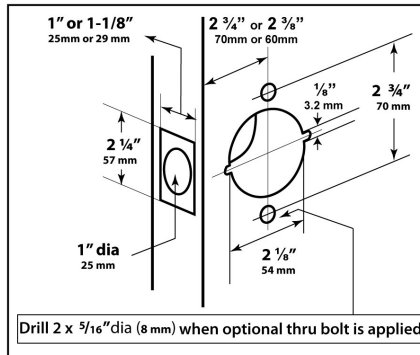


## FINISHES AVAILABLE

BHMA SYMBOL	US CODE	DESCRIPTION
605	US3	Polished Brass
606	US4	Satin Brass
609	US5	Antique Brass
612	US10	Satin Bronze
613	US10B	Oil Rubbed Bronze
619	US15	Satin Nickel
625	US26	Polished Chrome
626	US26D	Satin Chrome

Refer to price list for stock finishes and functions

## DOOR PREPARATION

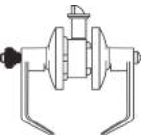


**LIFETIME WARRANTY**

**BHMA CERTIFIED**  
Be Safe. Be Secure. Look for the Mark.

**UL US**  
3 HOUR FIRE RATED  
UL10C, UBC7-2-1997

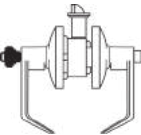
**XP00**  
**ICXP00**  
**CXP00**  
ANSI: F109



### ENTRANCE / OFFICE LOCK

Turn / Push button locking. Pushing and turning button locks outside lever requiring use of key until button is manually unlocked. Pushing button locks outside lever until unlocked with key or inside lever is turned.

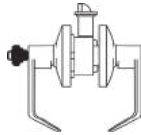
**XP01**  
**ICXP01**  
**CXP01**  
ANSI: F82



### ENTRANCE LOCK PUSH BUTTON

Pushing button in inside lever locks outside lever. Turning inside lever or operating key in outside lever releases button automatically. Closing door does not release button. Button cannot be fixed in lock position. Inside lever always free. Latch bolt automatically deadlocks when door is closed.

**XP03**  
**ICXP03**  
**CXP03**  
ANSI: F84



### CLASSROOM LOCK

Dead locking latch bolt operated by lever from either side except when outside lever is locked from outside by key. When outside lever is locked, latch bolt is operated by turning inside lever.

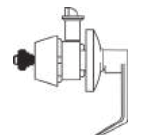
**XP05**  
**ICXP05**  
**CXP05**  
ANSI: F86



### STOREROOM LOCK

Dead locking latch bolt operated by key in outside lever or by rotating inside lever. Outside lever is always fixed.

**XP-T360-05**  
ANSI: F86



### STOREROOM LOCK AND SINGLE CYLINDER DEADBOLT COMBINATION

Dead locking latch bolt operated by key in outside deadbolt or by rotating inside lever. Outside deadbolt is always fixed.

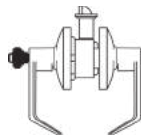
**XP80**  
**ICXP80**  
**CXP80**  
ANSI: F89



### EXIT LOCK

Deadlocking latch bolt operated with key from inside only. Blank plate outside.

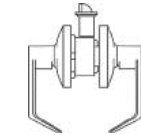
**XP101**  
**ICXP101**  
**CXP101**  
ANSI: F90



### DORMITORY / ASSISTED LIVING

Deadlocking latch bolt operated by lever from either side except when outside lever is locked by key or by push button on inside lever. Key in outside lever locks or unlocks outside lever. Outside key releases push button when locked from inside. Rotating inside lever or closing the door releases push button.

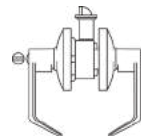
**XP10**  
**CXP10**  
ANSI: F77



### PATIO

Deadlocking latch bolt operated by lever from either side. Outside lever is locked by push button inside and unlocked by rotating inside lever or closing door.

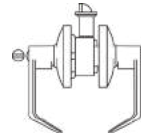
**XP20**  
**CXP20**  
ANSI: F76



### PRIVACY LOCK

Latch bolt operated by lever from either side. Outside lever is locked by push button inside and unlocked by emergency release outside. Turning inside lever or closing door releases push button.

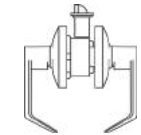
**HXP20**  
**HCXP20**



### HOSPITAL PRIVACY LOCK

Latch bolt operated by lever from either side. Outside lever is locked by push button inside and unlocked by turning turn button. Turning inside lever or closing door releases push button.

**XP30**  
ANSI: F75



### PASSAGE SET

Latch bolt operated by lever from either side at all times.

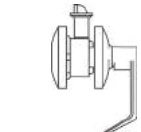
**XP40**



### DUMMY LEVER

Single dummy trim for one side of door. Pull only.

**XP50**  
ANSI: F89



### EXIT LOCK

Blank plate outside. Inside lever always unlocked.

**HOW TO ORDER:**  
For "XPRL", replace design name.  
Example: XP00 entrance in "XPRL" is XPRL00.

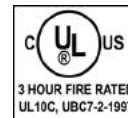
⚙️ "IC" Indicates function available with BEST, FALCON & ARROW Interchangeable Core.

"CXP" Indicates function available with Clutch.  
**OTHER FUNCTIONS NOT LISTED AVAILABLE UPON REQUEST.**

# TUSCANY

## CLUTCH MECHANISM

### OPTIONAL THRU BOLT INSTALLATION



Meets ADA requirements  
Specially designed for Barrier Free Application  
Conforms with ANSI / BHMA A156.2, Series 4000,  
Grade 2 Requirements, Exceeds 400,000 Cycles

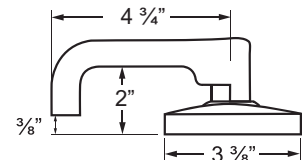
Push in and turn button function

Optional Removable Thru-Bolt

Individual spring on each side to prevent lever sag, maintain reliability and reduce maintenance

UL LISTED 3 HOUR RATED 1/2" Throw deadlatch completely reversible for flat & beveled doors

Free turning handle in the locked position, without retracting the latch to prevent breaking of handle



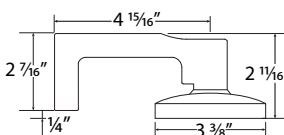
Full length solid lever handle with 3/8" return

Solid brass 6 pin "C" keyway cylinder.

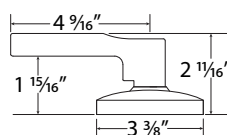
Available with Small Format Interchangeable Core



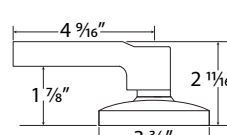
**2-AUG DESIGN**



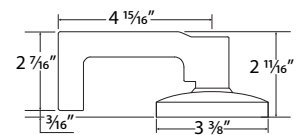
**2-DAN DESIGN**



**2-LON DESIGN**



**2-TAC DESIGN**



## SPECIFICATIONS

### GENERAL

Full length 4 3/4" lever handle with 3/8" return. Rose diameter 3 3/8". Key removable outside lever for fast re-keying. Non-handed levers. Concealed mounting screws.

### CLUTCH

Free turning handle in the lock position without retracting the latch, to deter breaking of handle.

### APPLICATIONS

For offices, schools, hospitals, apartments, hotel / motel, residential, commercial and public buildings.

### DOOR RANGES

1 3/8" to 1 3/4" thickness. 2" to 2 1/4" thickness also available upon request.

### ANSI STANDARDS

Meets or exceeds BHMA/ANSI A 156.2 Series 4000, Grade 2 (FF-H 106C)

### LATCH FACEPLATE

Standard 2 1/4" x 1 1/8" for 2 3/4" backset.

### TRIM

Optional thru-bolted assembly through door with separate spring cage for each lever.

### STRIKES

ASA 1 1/4" x 4 7/8" standard. Other strikes available upon request.

### CYLINDER & KEYWAYS

6 pin solid brass "C" keyway standard. Schlage E, Schlage C-K, Russwin D1-2-3-4, Corbin 59 / 60, Corbin-Russwin L4, Sargent LA-LB-LC, Falcon / Weiser E, Arrow A, Yale 8, Yale GA and Kwikset. Can also accept Medeco, Assa, Kaba and Cal-Royal (HSK) High Security Cylinders.

### HOUSING

Cold Rolled Steel and Zinc Dichromate finish for rust resistance with precision cast steel retractor. 2 1/8" diameter bore.

### INTERCHANGEABLE CORE (IC)

Interchangeable Core locks will accept compatible 6 or 7 pin cores with **BEST, FALCON and ARROW**. Prefix "IC" before part number. Available combined or uncombined. Temporary construction cores available. Factory keying with control key and master key available.

### LATCH OPTIONS

2 3/4" standard, brass with 1/2" throw. 2 3/8", 3 3/4" and 5" backset optional. GND750 deadlatch reversible for flat and beveled door. 3/4" throw anti-friction deadlatch for pair of fire doors.



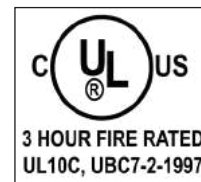
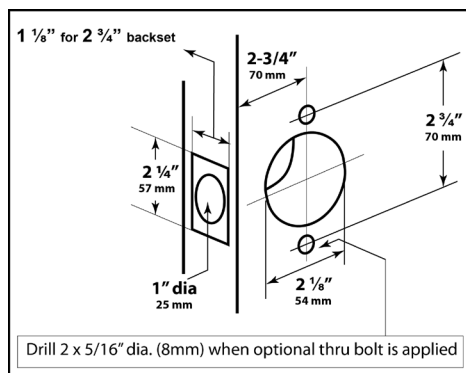
# TUSCANY "TUSL" SERIES FINISHES AND FUNCTIONS



FINISHES AVAILABLE		
BHMA SYMBOL	US CODE	DESCRIPTION
605	US3	Polished Brass
606	US4	Satin Brass
609	US5	Antique Brass
612	US10	Satin Bronze
613	US10B	Oil Rubbed Bronze
619	US15	Satin Nickel
626	US26D	Satin Chrome

Refer to price list for stock finishes and functions

## DOOR PREPARATION



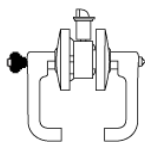
## HOW TO ORDER:

Replace "TUSL" with "2-AUG", "2-DAN", "2-LON", or "2-TAC" design name when ordering.

**Example:** CTUSL00 entrance in "2-AUG" design is "C2-AUG00".

### CTUSL00

ICCTUSL00  
ANSI: F109  
FED#161A/160A

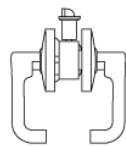


### ENTRANCE / OFFICE LOCK

Turn / Push button locking. Pushing and turning button locks outside lever requiring use of key until button is manually unlocked. Pushing button locks outside lever until unlocked with key or inside lever is turned.

### TUSL20

CTUSL20  
ANSI: F76

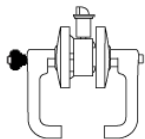


### PRIVACY LOCK

Latch bolt operated by lever from either side. Outside lever is locked by push button inside and unlocked by emergency release outside. Turning inside lever or closing door releases push button.

### CTUSL01

ICCTUSL01  
ANSI: F82  
FED#161B/160B

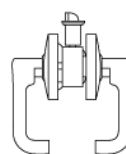


### ENTRANCE LOCK PUSH BUTTON

Pushing button in inside lever locks outside lever. Turning inside lever or operating key in outside lever releases button automatically. Closing door does not release button. Button cannot be fixed in lock position. Inside lever always free. Latch bolt automatically deadlocks when door is closed.

### TUSL30

ANSI: F75

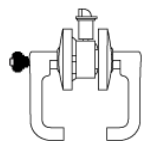


### PASSAGE SET

Latch bolt operated by lever from either side at all times.

### CTUSL03

ICCTUSL03  
ANSI: F84  
FED#161R/160R



### CLASSROOM LOCK

Dead locking latch bolt operated by lever from either side except when outside lever is locked from outside by key. When outside lever is locked, latch bolt is operated by turning inside lever.

### TUSL40

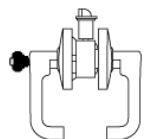


### DUMMY LEVER

Single dummy trim for one side of door. Pull only.

### CTUSL05

ICCTUSL05  
ANSI: F86  
FED#161D/160D

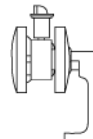


### STOREROOM LOCK

Dead locking latch bolt operated by key in outside lever or by rotating inside lever. Outside lever is always fixed.

### TUSL50

ANSI: F89



### EXIT LOCK

Blank plate outside. Inside lever always unlocked.

“IC” Indicates function available with BEST, FALCON & ARROW Interchangeable Core.

**ALL OTHER FUNCTIONS NOT LISTED ARE AVAILABLE ON SPECIAL ORDER**

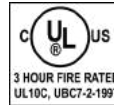


# COMMANDER

## CLUTCH MECHANISM

## OPTIONAL THRU BOLT INSTALLATION

**Interchangeable Core for SCHLAGE,  
SARGENT, CORBIN / RUSSWIN, & YALE**

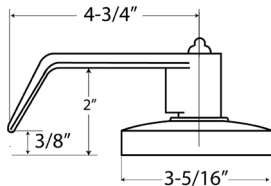


**LIFETIME  
WARRANTY**

**MEETS**  
*The Buy American Act*



Meets ADA requirements  
Specially designed for Barrier Free Application  
Conforms with ANSI / BHMA A156.2, Series 4000,  
Grade 2 Requirements, Exceeds 400,000 Cycles



**COM DESIGN**

### CLUTCH

Free turning handle in the  
locked position, without  
retracting the latch to help  
prevent breaking of handle



Optional  
Tactile Lining



**2-SPA DESIGN**



**2-AT DESIGN**

**\*\*YALE LFIC ONLY AVAILABLE IN  
2-AT & 2-SPA LEVER DESIGNS**

**\*\*SARGENT & CORBIN / RUSSWIN LFIC ONLY AVAILABLE IN  
2-AT, 2-SPA, 2-AUG, 2-DAN, 2-LON, & 2-TAC LEVER DESIGNS**



**2-AUG DESIGN**



**2-DAN DESIGN**



**2-LON DESIGN**



**2-TAC DESIGN**

## SPECIFICATIONS

### APPLICATIONS

For offices, schools, hospitals, apartments, hotel / motel,  
residential, commercial and public buildings.

### DOOR RANGES

1 3/8" to 1 3/4" thickness doors.

### BACKSET

2 3/4" Standard, 2 3/8", 3 3/4" and 5" optional.

### LATCH FACEPLATE

2 1/4" x 1 1/8", adjustable for flat or beveled doors 1/8" in 2",  
for 2 3/4" backset. Optional 2 1/4" x 1" for 2 3/8" backset.

### EXPOSED TRIM

Wrought brass, bronze or stainless steel, levers are Zinc  
casting, plated to match trim finish.

### STRIKES

ASA strike standard, "T" and full lip strike available on request.

### LATCH BOLT

1/2" Throw solid brass, reversible for RH or LH applications. UL Listed.

### ANSI STANDARDS

Meets or exceeds requirements of BHMA / ANSI A156.2 Series 4000,  
Grade 2 (FF-H 106C), 400,000 cycles.

**TACTILE & LEAD LINING** available upon request.



### LARGE FORMAT INTERCHANGEABLE CORE (IC)

Interchangeable Core locks will accept compatible:

- 6 pin cores **SCHLAGE** large format cylinders in all seven lever designs:  
**COM, 2-AT, 2-SPA, 2-AUG, 2-DAN, 2-LON, and 2-TAC**
- 6 or 7 pin cores **CORBIN / RUSSWIN**, and 6 pin cores with **SARGENT**,  
in **2-AT, 2-SPA, 2-AUG, 2-DAN, 2-LON, and 2-TAC** designs only.
- 6 pin cores **YALE** large format cylinders in **2-AT, and 2-SPA** lever designs only.
- and compatible **Schlage 6-pin** Interchangeable Core.  
Interchangeable Core offered by Cal-Royal. **See reverse page.**

# COMMANDER SERIES FINISHES AND FUNCTIONS

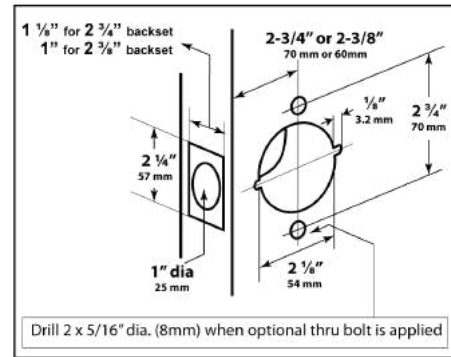


## FINISHES AVAILABLE

BHMA SYMBOL	US CODE	DESCRIPTION
605	US3	Polished Brass
606	US4	Satin Brass
609	US5	Antique Brass
612	US10	Satin Bronze
613	US10B	Oil Rubbed Bronze
619	US15	Satin Nickel
625	US26	Polished Chrome
626	US26D	Satin Chrome

Refer to price list for stock finishes and functions

## DOOR PREPARATION



### HOW TO ORDER SCHLAGE LFIC

#### Design:

**\*\*ICCOM (for COM lever in Schlage LFIC)**

**2-SPA / 2-AT / 2-AUG / 2-DAN / 2-LON / 2-TAC**

- Replace "ICCOM" with "ICSC"
- Add: DESIGN + FUNCTION + FINISH when ordering.
- Example: ICCOM00 US26D in "2-SPA" design, Entrance function with US26D finish will be: **"ICSC2-SPA00 US26D"**

### HOW TO ORDER CORBIN / RUSSWIN, SARGENT, YALE LFIC

#### Keyway: RUSIC / SARIC / YALIC

**RUSIC - Corbin / Russwin Large Format IC**

**SARIC - Sargent Large Format IC**

**YALIC - Yale Large Format IC**

#### Design:

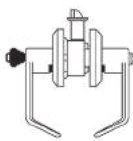
**2-SPA / 2-AT / 2-AUG /**

**2-DAN / 2-LON / 2-TAC**

**\*\*Note: Yale LFIC is only available in 2-AT, & 2-SPA lever designs**

- Specify: Replace "ICCOM" with specified KEYWAY,
- Add: DESIGN + FUNCTION + FINISH when ordering.
- Example: "ICCOM00 US26D with Corbin/Russwin Keyway, in "2-SPA" design, Entrance function with US26D finish will be: **"RUSIC2-SPA00 US26D"**

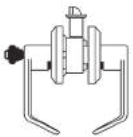
#### ICCOM00 ANSI: F109



#### ENTRANCE / OFFICE LOCK

Turn / Push button locking. Pushing and turning button locks outside lever requiring use of key until button is manually unlocked. Pushing button locks outside lever until unlocked with key or inside lever is turned.

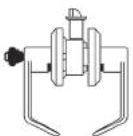
#### ICCOM03 ANSI: F84



#### CLASSROOM LOCK

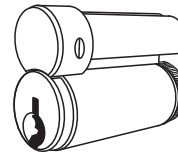
Dead locking latch bolt operated by lever from either side except when outside lever is locked from outside by key. When outside lever is locked, latch bolt is operated by turning inside lever.

#### ICCOM05 ANSI: F86



#### STOREROOM LOCK

Dead locking latch bolt operated by key in outside lever or by rotating inside lever. Outside lever is always fixed.



**Large Format 6 Pin  
Interchangeable Cores  
compatible to SCHLAGE 6 Pin  
Interchangeable Core**

ITEM #	DESCRIPTION
<b>3000ICC</b>	6 Pin "C" keyway combined SCHLAGE large format IC core cylinder KA# 111111 with "C" key blanks
<b>4000ICCK</b>	6 Pin "C-K" keyway combined SCHLAGE large format IC core cylinder KA# 111111 with "E" key blanks
<b>5000ICE</b>	6 Pin "E" Keyway combined SCHLAGE large format IC core cylinder KA# 111111 with "E" key blanks
<b>1000ICC</b>	6 Pin "C" Keyway combined SCHLAGE large format IC core cylinder KD and MK
<b>2000ICCC</b>	Temporary Construction Cores (Keyed alike)

Available Finishes: US3, US26D

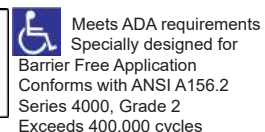
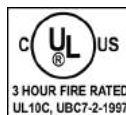
**(IC)** Accepts Schlage Full Size Format OEM IC Core Cylinders with Interchangeable Core **for COM design only.**

**(I)** Indicates function available with SCHLAGE, CORBIN / RUSSWIN, SARGENT and YALE Interchangeable Core.

**OTHER FUNCTIONS NOT LISTED AVAILABLE UPON REQUEST.**

# CHALLENGER

## NON CLUTCH MECHANISM CYLINDRICAL LEVERSET



Optional tactile warning meets handicap and fire code

Push in and turn button function

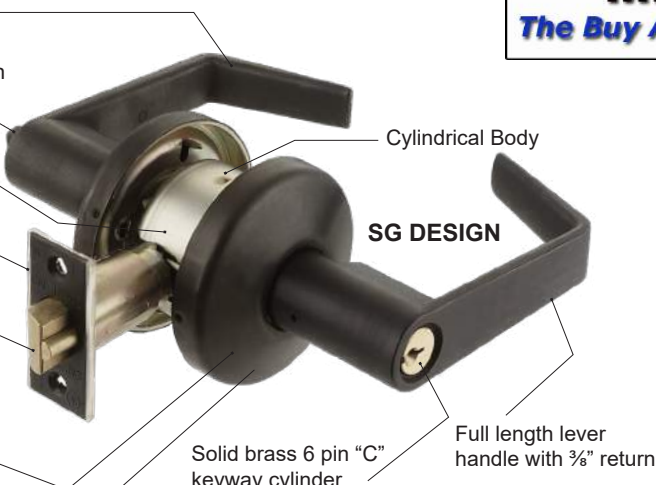
Coil compression springs provide great strength and durability

Plastic filler for use on 1 1/8" door prep

UL LISTED 3 HOUR RATED 1/2" Throw deadlatch completely reversible for flat & beveled doors

Individual spring on each side to prevent lever sag, maintain reliability and reduce maintenance

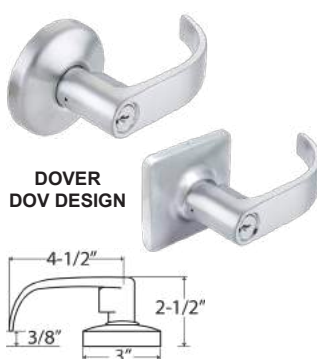
Concealed mounting screws



Available with Small Format Interchangeable Core



To order Square Rose, please refer to the bottom of the next page.



## SPECIFICATIONS

### APPLICATIONS

For offices, schools, hospitals, apartments, hotel / motel, residential, commercial and public buildings.

### DOOR RANGES

1 3/8" to 2" thickness.

### BACKSET

2 3/4" Standard, 2 3/8", 3 3/4" and 5" optional.

2 3/8" Standard for Astor "AST" Design, 2 3/4" optional.

### LATCH BOLT

1/2" Throw solid brass, reversible for RH or LH applications. UL Listed.

### LATCH FACEPLATE

2 1/4" x 1", square corner packed with plastic filler for 1 1/8" width.

2 1/4" x 1", round corner for Astor "AST" Design

### ANSI STANDARDS

Meets or exceeds requirements of BHMA / ANSI A156.2 Series 4000, Grade 2 (FF-H 106C), 400,000 cycles.

### EXPOSED TRIM

Wrought brass, bronze or stainless steel, levers are Zinc casting, plated to match trim finish.

### KEYING

6-pin "C" keyway cylinder, 2 keys per lock. Keying as per individual job requirement.

### CYLINDER & KEYWAYS

6 pin solid brass "C" keyway standard. Schlage E, Schlage C-K, Russwin D1-2-3-4, Corbin 59 / 60, Corbin-Russwin L4, Sargent LA-LB-LC, Falcon / Weiser E, Arrow A, Yale 8, Yale GA and Kwikset. Can also accept Medeco, Assa, Kaba and Cal-Royal (HSK) High Security Cylinders.

### INTERCHANGEABLE CORE

Interchangeable Core locks will accept compatible 6 or 7 pin cores with BEST, FALCON and ARROW. Prefix "IC" before part number. Available combined or uncombined. Temporary construction cores available. Factory keying with control key and master key available.

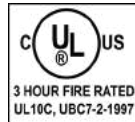
### STRIKES

ASA strike standard, "T" and full lip strike available on request. FLS strike standard for Astor "AST" Design.

TACTILE & LEAD LINING available upon request.



# CHALLENGER SERIES FINISHES AND FUNCTIONS

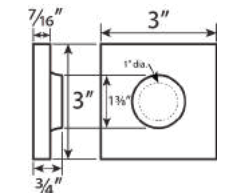
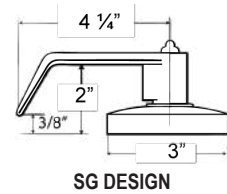
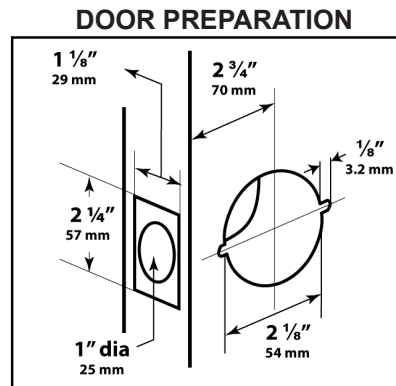


**LIFETIME  
WARRANTY**



FINISHES AVAILABLE		
BHMA SYMBOL	US CODE	DESCRIPTION
605	US3	Polished Brass
606	US4	Satin Brass
609	US5	Antique Brass
612	US10	Satin Bronze
613	US10B	Oil Rubbed Bronze
619	US15	Satin Nickel
625	US26	Polished Chrome
626	US26D	Satin Chrome

Refer to price list for stock finishes and functions



SQUARE ROSE



## ENTRANCE / OFFICE LOCK

Turn / Push button locking. Pushing and turning button locks outside lever requiring use of key until button is manually unlocked. Pushing button locks outside lever until unlocked with key or inside lever is turned.



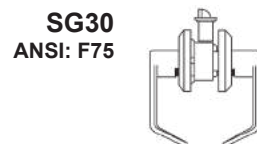
## PRIVACY LOCK

Latch bolt operated by lever from either side. Outside lever is locked by push button inside and unlocked by emergency release outside. Turning inside lever or closing door releases push button.



## CLASSROOM LOCK

Dead locking latch bolt operated by lever from either side except when outside lever is locked from outside by key. When outside lever is locked, latch bolt is operated by turning inside lever.



## PASSAGE SET

Latch bolt operated by lever from either side at all times.



## STOREROOM LOCK

Dead locking latch bolt operated by key in outside lever or by rotating inside lever. Outside lever is always fixed.



## DUMMY LEVER

Single dummy trim for one side of door. Pull only.



## PATIO

Deadlocking latch bolt operated by lever from either side. Outside lever is locked by push button inside and unlocked by rotating inside lever or closing door.



## EXIT LOCK

Blank plate outside. Inside lever always unlocked.

### HOW TO ORDER ROUND ROSE:

For "MAN", "AST", "ROC" or "DOV" designs, replace design name.

Example: SG00 entrance in "AST" is **AST00**

### HOW TO ORDER SQUARE ROSE:

For "MAN", "AST", "ROC" or "DOV" designs, replace design name and add "-SQ" after function number.

Example: SG00 entrance in "AST" is **AST00-SQ**

⚙️ "IC" Indicates function available with BEST, FALCON & ARROW Interchangeable Core.

**OTHER FUNCTIONS NOT LISTED ARE AVAILABLE UPON REQUEST**



# GRAND SERIES

MEETS ANSI STANDARD A156.2,  
GRADE 2 TUBULAR LEVERSETS

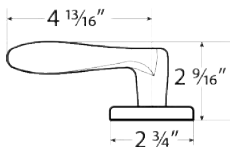
**MEETS**  
*The Buy American Act*



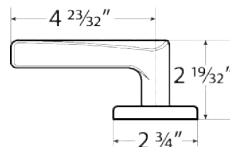
Meets ADA requirements  
Specially designed for Barrier Free Application  
Conforms with ANSI / BHMA A156.2, Series 4000,  
Grade 2 Requirements, Exceeds 400,000 Cycles



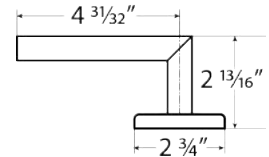
**GERARD "GER"**  
DESIGN (HANCED)



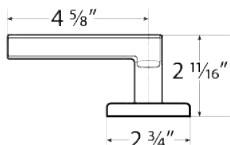
**VALENCIA "VAL"**  
DESIGN (HANCED)



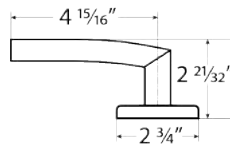
**ATHENS "ATH"**  
DESIGN (NON-HANCED)



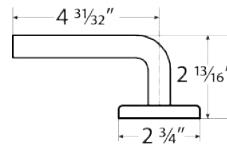
**FORREST "FOR"**  
DESIGN (NON-HANCED)



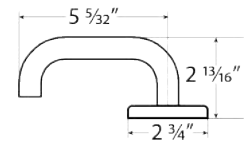
**JASPER "JAS"**  
DESIGN (NON-HANCED)



**NELSON "NEL"**  
DESIGN (NON-HANCED)



**WILSON "WIL"**  
DESIGN (NON-HANCED)



## SPECIFICATIONS

### APPLICATIONS

For hotel / guest rooms, high-end apartments, condominiums, office buildings, and home offices.

### DOOR RANGES

1 3/8" to 1 3/4" thickness doors.  
2" thickness available upon request.

### BACKSET

2 3/4" or 2 5/8" backset.

### LATCH FACEPLATE

2 1/4" x 1 1/8" or 2 1/4" x 1", with plastic filler to convert 1" faceplate to 1 1/8" wide door preparations

### STRIKES

T-Strike standard. Optional ANSI and Full Lip Strike available.

### EXPOSED TRIM

Stainless Steel or Zinc casting, plated to match trim finish.

### HANDING

GERARD and VALENCIA lever designs are handed, not field reversible. Must specify R (Right) or L (Left) when ordering.

### KICK-OFF FEATURE ON PRIVACY FUNCTION

Privacy function automatically unlocks if door is locked prior to closing. Inside lever always retracts latch. Outside lever is locked by locking pin from inside and unlocked by turning inside lever, closing door, or using emergency pin on outside lever.

### ANSI STANDARDS

Meets or exceeds requirements of BHMA / ANSI A156.2 Series 4000, Grade 2 (FF-H 106C), 400,000 cycles.

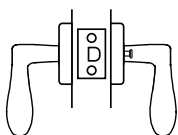
# GRAND SERIES FINISHES AND FUNCTIONS

*for ATHENS, JASPER, NELSON, and WILSON lever designs only*

## FINISHES AVAILABLE

BHMA SYMBOL	US CODE	DESCRIPTION
622	US1	Flat Black Coated
613E	US10BE	Dark Oxidized Satin Bronze, Equivalent
629	US32	Polished Stainless Steel
630	US32D	Satin Stainless Steel

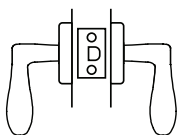
**ATH20**  
ANSI: F76



### PRIVACY LOCK

Latch bolt operated by lever from either side. Outside lever is locked by push button inside and unlocked by emergency release outside. Turning inside lever or closing door releases push button.

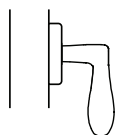
**ATH30**  
ANSI: F75



### PASSAGE SET

Latch bolt operated by lever from either side at all times.

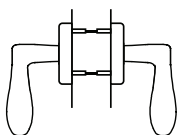
**ATH40**



### DUMMY LEVER

Single dummy trim for one side of door. Pull only.

**ATH70**



### TWO SIDED DUMMY

Double dummy trim on both sides of door. Pull only. Trim is thru-bolted.

*for GERARD, VALENCIA, and FORREST lever designs only*

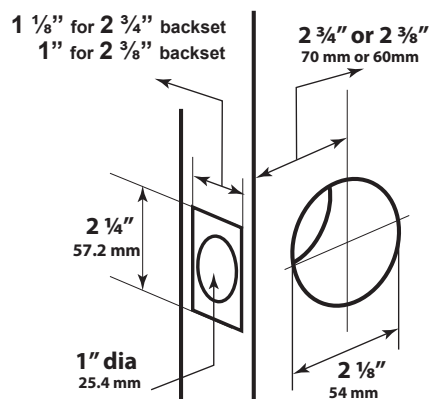
## FINISHES AVAILABLE

BHMA SYMBOL	US CODE	DESCRIPTION
622	US1	Flat Black Coated
605	US3	Polished Brass
606	US4	Satin Brass
612	US10	Satin Bronze
613E	US10BE	Dark Oxidized Satin Bronze, Equivalent
619	US15	Satin Nickel
625	US26	Polished Chrome
626	US26D	Satin Chrome

**NON-STOCK ITEMS AVAILABLE WITH FACTORY LEAD TIME.**

**SAMPLES FOR SUBMITTAL ARE AVAILABLE IN US32D, US26D, US26 & US1 FINISH. CONSULT FACTORY.**

## DOOR PREPARATIONS



### HOW TO ORDER:

Replace "ATH" with "GER", "VAL", "FOR", "JAS", "NEL", or "WIL" design name when ordering.

**Example:** ATH20 privacy in "WIL" design is "WIL20".

Note: Must specify R (Right) or L (Left) when ordering "GER" or "VAL" design.

# CRCODE200 SERIES

GRADE 2 MECHANICAL STAND ALONE PUSH BUTTON LOCK AND  
EXIT DEVICE TRIM WITH **BREAKAWAY LEVER FEATURE**



Meets ADA requirements  
Specially designed for  
Barrier Free Application  
Conforms with ANSI / BHMA A156.2,  
Series 4000, Grade 2 Requirements

- ✓ **EASY INSTALLATION COVERS  
161 PREP (2 1/8" HOLE)**
- ✓ **1 - 12 DIGIT CODE**
- ✓ **SINGLE CODE USER**
- ✓ **KEY OVERRIDE**
- ✓ **EASY ON-THE-DOOR CODE  
CHANGE WITHOUT REMOVING  
THE LOCK**
- ✓ **CODE-FREE OPTION (PASSAGE)**
- ✓ **BREAKAWAY LEVER DESIGN**
- ✓ **CLUTCH-FREE MECHANISM**
- ✓ **WEATHER RESISTANT**
- ✓ **NON-HANDED**
- ✓ **MORE THAN 8000 NON-SEQUENTIAL  
POSSIBLE CODE COMBINATIONS**
- ✓ **APPLICATIONS:**
  - OFFICES, SCHOOLS, HOSPITALS,  
APARTMENTS, HOTELS / MOTELS,  
RESIDENTIAL, COMMERCIAL  
AND PUBLIC BUILDINGS



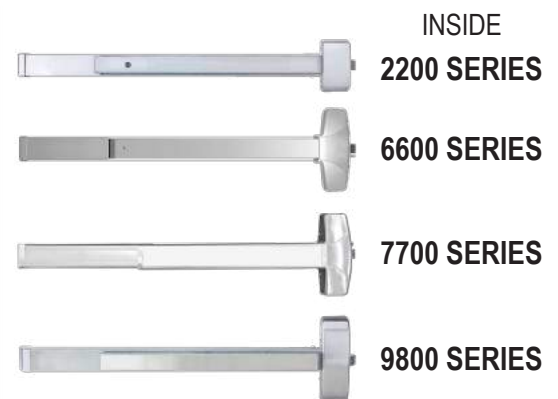
**CRCODE202**  
Standard (Storeroom Function)  
Optional (Passage Mode)



**CRCODE203**  
Standard (Institution Function)  
Optional (Storeroom, Passage Mode on both sides)



**CRCODE204 Universal Trim**  
2200, 6600, 7700 and 9800 Series Rim and Surface Vertical Rods  
Standard (Storeroom Function) Optional (Passage Mode)



## SPECIFICATIONS

### GENERAL

Full length 5 1/2" lever handle with 7/8" return. Escutcheon dimension 3 1/2" x 8 1/8". Key removable outside lever for all models for fast re-keying. Non-handed levers. 2 1/8" diameter bore.

### BREAKAWAY LEVER DESIGN

Lever will stay at the 5 o'clock position when forced down without retracting the latch, to prevent breaking of handle.

### DOOR RANGES

1 3/8" - 2 1/4" for CRCODE202, 1 3/8" - 1 3/4" for CRCODE203,  
1 3/4" - 2" for CRCODE204

### ANSI STANDARDS

Meets or exceeds ANSI A 156.2, Series 4000 Grade 2 requirements.

### LATCH FACEPLATE

Standard 2 1/4" x 1 1/8" for 2 3/4" backset for CRCODE202 and CRCODE203 only.

### STRIKES

ASA 1 1/4" x 4 7/8" standard for CRCODE202 and CRCODE203 only. Other strikes available upon request. Strikes for CRCODE204 comes standard with exit device ordered.

### CYLINDER & KEYWAYS

6 pin solid brass "C" keyway standard. Schlage E, Schlage C-K, Russwin D1-2-3-4, Corbin 59 / 60, Corbin-Russwin L4, Sargent LA-LB-LC, Falcon / Weiser E, Arrow A, Yale 8, Yale GA and Kwikset. Can also accept Medeco, Assa, Kaba and Cal-Royal (HSK) High Security Cylinders.

### TRIM

Thru-bolted assembly through door with separate spring cage for each lever.

### LATCH OPTIONS

2 3/4" standard, brass with 1/2" throw (with optional 2 3/8" backset, 2 1/4" x 1" faceplate) for CRCODE202 and CRCODE203.

**Note: CRCODE202 and CRCODE203 for  
Non-Fire Application Only.**

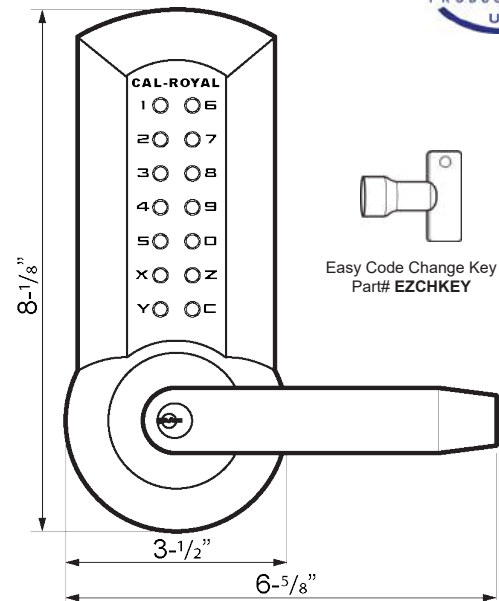
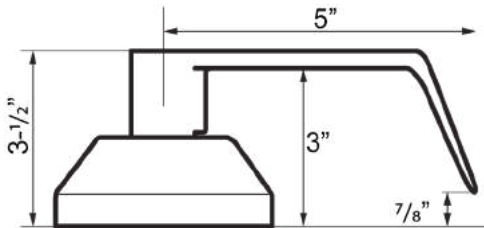
# CRCODE200 SERIES

## FINISHES, FUNCTIONS & FEATURES



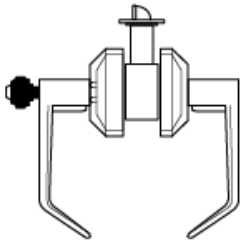
FINISHES AVAILABLE		
BHMA SYMBOL	US CODE	DESCRIPTION
626	US26D	Satin Chrome
613	US10B	Oil Rubbed Bronze

Refer to price list for stock finishes and availability



### FUNCTIONS

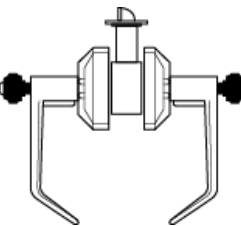
#### CRCODE202



Latch bolt operated by lever from either side, except outside has to enter a pre-programmed code on the keypad in order to retract the latch upon turning the lever.

**Default Function: Storeroom**  
**Optional Function: Passage Mode**  
**Door Thickness: 1 3/8" - 2 1/4"**

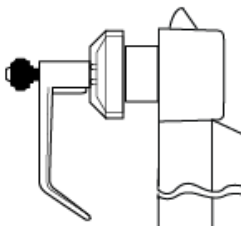
#### CRCODE203



Latch bolt operated by lever from either side by entering a pre-programmed code on the keypad in order to retract the latch upon turning the lever. Both lever always locked, unless one or both sides are set to passage mode. If one side is set to passage, function can be storeroom. If both sides are set to code-free, function becomes passage.

**Default Function: Institution**  
**Optional Functions: Storeroom, Passage Mode**  
**Door Thickness: 1 3/8" - 1 3/4"**

#### CRCODE204



Operated by lever from outside and when push pad is depressed, except outside has to enter a pre-programmed code on the keypad in order to retract the latch upon turning the lever. For use with 2200, 6600, 7700 and 9800 Series Rim and Surface Vertical Rods.

**Universal Trim**  
**Default Function: Storeroom**  
**Optional Function: Passage Mode**  
**Door Thickness: 1 3/4" - 2"**

### FEATURES

#### ✓ SINGLE CODE USER

Only one code combination chosen from thousands of combinations can be set at a time to deter code breakers. Code length is from 1 to 12 digits, and can be permuted with a non-repeating digit up to over 5000 combinations.

#### ✓ EASY ON-DOOR CODE CHANGE

Code can be changed without removing the lock from the door and using only a "code change" key.

#### ✓ 1-12 DIGIT CODE

An entry code can be a combination of 1 to 12 digits long. The digits can be entered in any order. For example, if the chosen 6-digit code is "5283XZ" it can be entered as "ZX3825" or "3X8Z25" or in any other combination of the 6-digit code.

#### ✓ BREAKAWAY LEVER DESIGN

Lever will stay at the 5 o'clock position when forced down without retracting the latch, to prevent breaking of handle and giving the impression of the handle being broken to discourage or scare off vandals.

#### ✓ CODE-FREE OPTION (PASSAGE MODE)

Once enabled, the lock remains unlocked until disable PASSAGE MODE is initiated. (For CRCODE203, inside and outside locks must be set)

#### ✓ WEATHER RESISTANT

Can resist above or below normal weather conditions without compromising security.

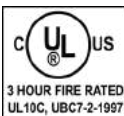
#### ✓ NON-HANDED

Easily field reversible handing.



# BARRINGTON

QUALITY DESIGNED AND ENGINEERED  
FOR COMMERCIAL BUILDINGS



**LIFETIME  
WARRANTY**

**MEETS**  
*The Buy American Act*

Conforms with ANSI A156.2. Series 4000,  
Grade 2 (FF-H-106C). Exceeds 400,000 cycles

Button push in and turn  
button function

Knob cannot slip or pull  
off. Both kept in position by  
positive spring catch

Internal mechanism heavy gauge  
cold rolled steel. All parts are zinc  
plated and dichromated to assure  
protection from rust or corrosion.  
Special lubricant applied for  
smoother operation

Throw bolt affords a high degree  
of security. Standard with solid,  
rustless, pressure cast. #300 series  
anti-magnetic stainless steel or  
brass latch bolt available with UL  
listed latch bolt for 3 hour rated door  
4' x 8' or non UL latch bolt

Guard bolt dead locks  
latch bolt automatically  
Latch case sturdy all  
steel mechanism

Inside rose, threaded 3"  
diameter large rose adjustable  
for various door thickness

Cylindrical housing 2 1/8"  
diameter provides great  
strength and durability

Outside rose, threaded 3"  
diameter large rose adjustable  
for various door thickness

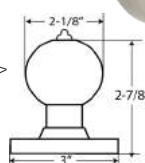
Long spindle hub eliminates  
hub wobble

Solid brass 6 pin "C"  
keyway cylinder.

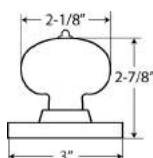
Available with Best / Falcon  
Style (SFIC) Interchangeable  
Core

Cylinder precision solid brass.  
Pick resistant 6-pin tumbler.  
Must turn key one-quarter to  
remove and replace cylinder.  
Can be construction keyed  
and master keyed as required

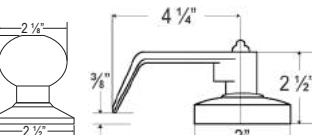
Cylinder knob demountable  
for quick re-keying and  
replacement: reversible for  
either left or right hand door  
swinging in or out



**BA DESIGN**



**PLG DESIGN**



**BA-SG DESIGN**

## SPECIFICATIONS

### DOOR RANGES

1 3/8" to 1 3/4" thickness doors.

### BACKSET

2 3/4" Standard, 2 3/8", 3 3/4" and 5" extension available.

### LATCH FACEPLATE

2 1/4" x 1 1/8" for 2 3/4" backset, 2 1/4" x 1" for 2 3/8" backset.

### STRIKES

ANSI strike standard, 4 7/8" x 1 1/4". Optional "T" and full  
lip strike available on request.

### KEYING

6-pin "C" keyway cylinder, 2 keys per lock.

### EXPOSED TRIM

Wrought brass, bronze or stainless steel.

### ADDITIONAL KEYWAYS

6 pin solid brass "C" keyway standard. Schlage E, Schlage C-K,  
Russwin D1-2-3-4, Corbin 59 / 60, Corbin-Russwin L4, Sargent  
LA-LB-LC, Falcon / Weiser E, Arrow A, Yale 8, Yale GA and Kwikset.  
Can also accept Medeco, Assa, Kaba and Cal-Royal (HSK) High  
Security Cylinders.

### BORE DIAMETER

1" for latch. 2 1/8" for lock housing.

### INTERCHANGEABLE CORE

Interchangeable Core locks will accept compatible 6 or 7 pin cores  
with BEST, FALCON and ARROW. Prefix "IC" before part number.  
Available combined or uncombined. Temporary construction  
cores available. Factory keying with control key and master-key  
available.

### ANSI STANDARDS

Meets or exceeds requirements of BHMA / ANSI A156.2 series 4000  
for Grade 2 (FF-H-106C).

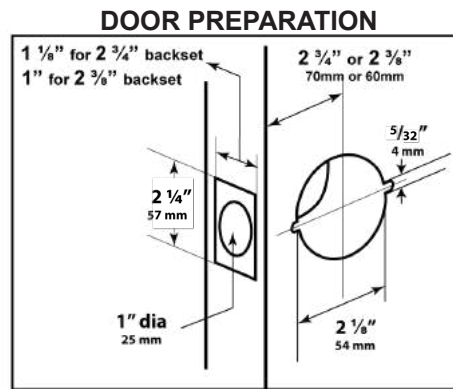
# BARRINGTON BA SERIES FINISHES AND FUNCTIONS



## FINISHES AVAILABLE

BHMA SYMBOL	US CODE	DESCRIPTION
605	US3	Polished Brass
606	US4	Satin Brass
609	US5	Antique Brass
612	US10	Satin Bronze
613	US10B	Oil Rubbed Bronze
619	US15	Satin Nickel
625	US26	Polished Chrome
626	US26D	Satin Chrome
631	US19	Matte Black

Refer to price list for stock finishes and functions



**LIFETIME WARRANTY**



**BA00**  
**ICBA00**  
**PLG00**  
**ANSI F109**  
FED# 161A / 160A



### ENTRANCE / OFFICE LOCK

Turn / Push button locking. Pushing and turning button locks outside knob requiring use of key until button is manually unlocked. Pushing button locks outside knob until unlocked with key or inside knob is turned.

### COMBINATION ENTRANCE / OFFICE LOCK AND SINGLE CYLINDER DEADBOLT -- KA / 2 PACKED TOGETHER

Turn / Push button locking. Pushing and turning button locks outside knob requiring use of key until button is manually unlocked. Pushing button locks outside knob until unlocked with key or inside knob is turned. Dead locking latch bolt retracted by key from outside or by thumb turn on inside. Adjustable 2 3/8" or 2 3/4" backset.



**BA00 / T220**

**BA01**  
**ICBA01**  
**ANSI F82**  
FED#161A/160A



### ENTRANCE / PUSH BUTTON LOCK

Pushing button in inside knob locks outside knob. Turning inside knob or operating key in outside knob releases button automatically. Closing door does not release button. Button cannot be fixed in lock position. Inside knob always free. Latch bolt automatically deadlocks when door is closed.

**BA02**  
**ICBA02**  
**PLG02**  
**ANSI F91**



### STORE LOCK

Deadlocking latch bolt operated by knob from either side, except when both knobs are locked by key in knob from either side.

**BA03**  
**ICBA03**  
**PLG03**  
**ANSI F84**



### CLASSROOM

Deadlocking latch bolt operated by knob from either side except when outside knob is locked from outside by key. When outside knob is locked, latch bolt is operated by turning inside knob.

**BA04**  
**ICBA04**  
**PLG04**  
**ANSI F80**



### COMMUNICATING

Deadlocking latch bolt operated by knob from either side. Turning key in either knob locks or unlocks its own knob independently.

**BA05**  
**ICBA05**  
**PLG05**  
**ANSI F86**



### STOREROOM

Deadlocking latch bolt operated by key in outside knob or by rotating inside knob. Outside knob is always fixed.

**BA06**  
**ICBA06**  
**ANSI F88**



### VESTIBULE

Deadlocking latch bolt operated by knob from either side except when outside knob is locked by key from inside. Latch bolt may be retracted by key in outside knob or by rotating inside knob.

**BA09**  
**ICBA09**  
**PLG09**  
**ANSI F87**



### INSTITUTION

Deadlocking latch bolt operated by key in knob from either side. Both knobs are always fixed.

**BA80**  
**ICBA80**  
**PLG50**  
**ANSI F89**



### EXIT LOCK / CONNECTING ROOM

Deadlocking latch bolt operated with key from inside only. Blank plate outside.

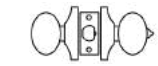
**BA101**  
**ICBA101**  
**ANSI F90-2**



### CORRIDOR LOCK / DORMITORY

Deadlocking latch bolt operated by knob from either side except when outside knob is locked by key or by push button on inside. Key in outside knob locks or unlocks outside knob. Rotating inside knob releases push button. Inside knob always operates.

**BA10**  
**ANSI F77**  
FED# 161P / 160P



### PATIO LOCK

Deadlocking latch bolt operated by knob from either side. Outside knob is locked by push button inside and unlocked by rotating inside knob or closing door.

**BA20**  
**PLG20**  
**ANSI F76**  
FED#161L / 160L



### PRIVACY LOCK

Latch bolt operated by knob from either side. Outside knob is locked by push button inside and unlocked by emergency release outside. Turning inside knob or closing door releases push button.

**BA30**  
**PLG30**  
**ANSI F75**  
FED#161N / 160N



### PASSAGE SET

Latch bolt operated by knob from either side at all times.

**BA40**  
**PLG40**



### DUMMY LEVER

Single dummy trim for one side of door. Pull only.

#### HOW TO ORDER:

For "PLG" designs, replace design name.  
Example: **BA00** entrance in "PLG" is **PLG00**

#### HOW TO ORDER:

For **SG** inside lever use "**BA-SG**" followed by function number.  
Example: **BA05** storeroom with **SG** inside lever is **BA-SG05**

**(IC)** Indicates function available with BEST, FALCON & ARROW Interchangeable Core.

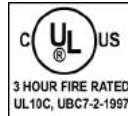
**ALL OTHER FUNCTIONS NOT LISTED ARE AVAILABLE ON SPECIAL ORDER**

# HIL SERIES

## INTERCONNECTED LOCKS

**4" CTC BORE**

**ANSI A156.12 GRADE 2**



**LIFETIME  
WARRANTY**

**MEETS**  
*The Buy American Act*



Meets ADA requirements  
Specially designed for Barrier Free Application  
Conforms with ANSI A156.12 Series 5000,  
Grade 2, Exceeds 400,000 cycles

1" (25mm) Throw deadbolt with  
concealed hardened steel roller

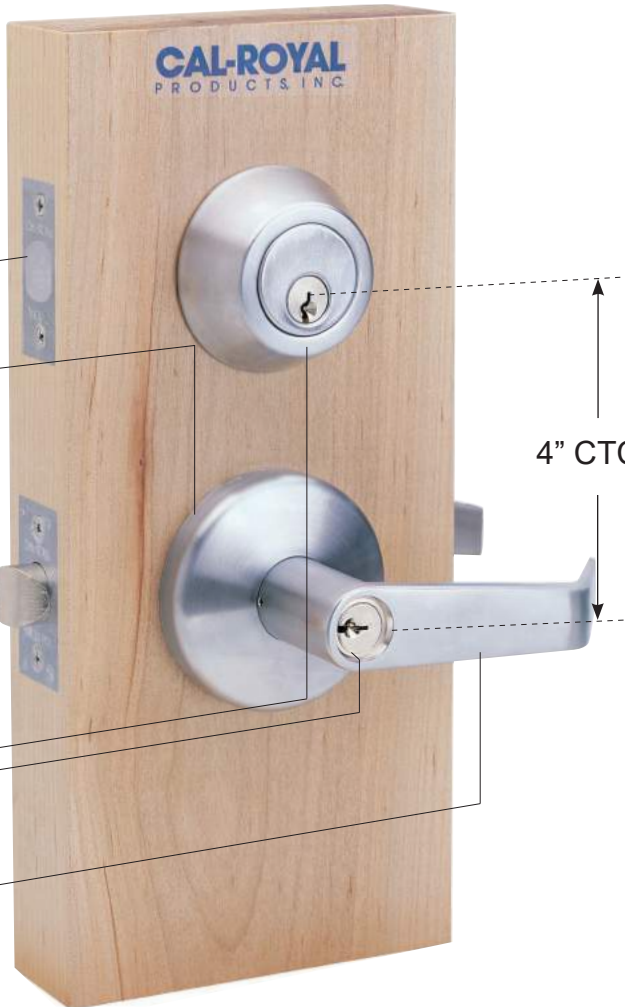
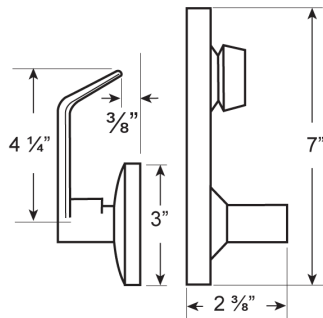
Unique individual spring on exterior  
and interior side of lever to prevent  
lever sag

½" (13mm) Throw universal  
deadlatch reversible RH / LH,  
adjustable front for flat or beveled  
doors. UL Listed 3 Hour Rated

Precision solid brass 6-pin "C" keyway.

Available with Small Format  
Interchangeable Core  
on deadbolt and lever

Key removable diecast lever for quick  
re-keying or cylinder replacement



**INTERIOR**



4" CTC

**OPTIONAL EXTERIOR  
ESCUTCHEON PLATE  
PART# HILESC-1**



**ASTOR  
HILRL DESIGN**



Available with Interchangeable Core  
on deadbolt and lever.

**DOVER  
HILRL DESIGN**



Available with Interchangeable Core  
on deadbolt and lever.

**MANHATTAN  
HILMAN DESIGN**



Available with Interchangeable Core  
on deadbolt and lever.



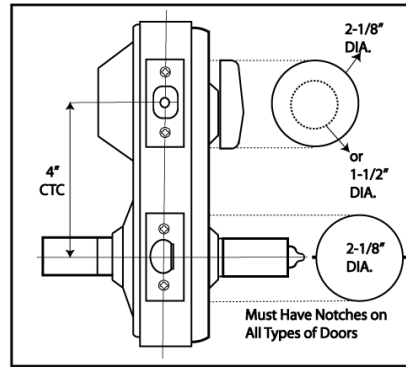
# HIL SERIES FINISHES, FUNCTIONS AND SPECIFICATIONS



FINISHES AVAILABLE		
BHMA SYMBOL	US CODE	DESCRIPTION
605	US3	Polished Brass
606	US4	Satin Brass
609	US5	Antique Brass
612	US10	Satin Bronze
613	US10B	Oil Rubbed Bronze
619	US15	Satin Nickel
625	US26	Polished Chrome
626	US26D	Satin Chrome

Refer to price list for stock finishes and functions

## DOOR PREPARATION



**LIFETIME WARRANTY**



## SPECIFICATIONS

**GENERAL SPECIFICATIONS:** Simultaneous retraction on both latch and deadbolts from inside by turning the lever in a panic-proof exit situation. Top lock is heavy duty deadbolt with the bottom lock having a cylindrical body. High security with a double locking point using the keyed lock function.

**ANSI STANDARDS:** Meet ANSI A156.12 Series 5000 Grade 2 Requirements.

**CYLINDER & KEYWAY:** 6 pin solid brass "C" keyway, Schlage E, Schlage C-K, Russwin D1-2-3-4, Corbin 59 / 60, Sargent LA-LB-LC, Falcon / Weiser E, Arrow A, Yale 8, Yale GA and Kwikset. Can also accept Medeco, Assa, Kaba and Cal-Royal (HSK) High security Cylinders.

**SMALL FORMAT INTERCHANGEABLE CORE:** Interchangeable Core Locks will accept compatible 6 or 7 pin cores with **BEST, FALCON & ARROW**. Prefix "IC" before part number. Available combined or uncombined. Temporary construction cores and factory keying with control key & master key available.

**TRIM:** HIL, ASTOR, DOVER and MANHATTAN designs. Refer to picture in front page. Lever length is 4 1/4".

**STRIKES:** Standard "T" strike furnished with lockset. 2 3/4" x 1 1/8" square strike with deadbolt.

**ESCUTCHEON:** 2 11/16" x 7" brass plated. Packed with interior escutcheon. Optional external escutcheon available.

**FUNCTIONS:** Classroom, Storeroom and Dummy available upon request.

**DEADBOLT:** 1" Throw. **UL-Listed** Adjustable 2 3/4" or 2 5/8" Brass with hardened steel pin. Standard 2 1/4" x 1" face plate, packed with plastic filler for 1 1/8" door preparations.

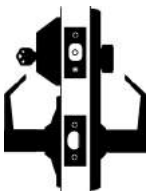
**LATCH BOLT:** 1/2" Throw. **UL-Listed** for 3 hour doors. 2 3/4" standard backset.

**LATCH FACEPLATE:** Standard 2 1/4" x 1 1/8" for 2 3/4" backset. 2 1/4" x 1" for 2 5/8" backset optional.

**DOOR RANGE:** 1 3/8" – 1 3/4" door thickness.

**HOUSING:** Steel and Zinc dichromate finish for rust resistance.

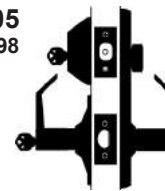
**HIL30**  
**ICHIL30**  
ANSI: F95



### SINGLE LOCKING, ENTRANCE (PASSAGE LEVER)

Deadbolt thrown or retracted by key in upper lock from outside or by inside turn unit. Latch bolt retracted by lever from either side. Lever retracts deadbolt and latch bolt simultaneously for immediate exit.

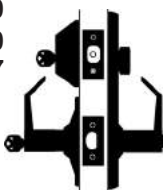
**HIL05**  
ANSI: F98



### DOUBLE LOCKING, STOREROOM

Deadbolt thrown or retracted by key in upper lock from outside or by inside turn unit. Deadlocking latch bolt is operated by key in outside lever or by turning inside lever. Inside lever retracts deadbolt and latch bolt simultaneously for immediate exit. Outside lever is always fixed.

**HIL00**  
**ICHIL00**  
ANSI: F97



### DOUBLE LOCKING, ENTRANCE (ENTRANCE LEVER)

Deadbolt thrown or retracted by key in upper lock from outside or by inside turn unit. Dead latch retracted by key in outer when locked by pushing turn button in inner lever. Outer lever may be fixed in locked position by rotating turn button. Turning inside lever retracts deadbolt and latch bolt simultaneously for immediate exit.

## OTHER FUNCTIONS NOT LISTED ARE AVAILABLE UPON REQUEST

**8** Indicates **deadbolts** that are available with a Small Format Interchangeable Core. Interchangeable Core deadbolts will accept compatible 6 or 7 pin Core with Best, Falcon and Arrow. Prefix "IC" before part number.

**88** Available with Small Format Interchangeable Core on **deadbolt and lever**.

**HOW TO ORDER:**  
When ordering HIL AST design, replace design name.  
Example:  
HIL00 in AST is HILAST00

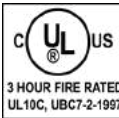


# JHIL SERIES

## INTERCONNECTED LOCKS

### OPTIONAL 4" or 5 1/2" CTC BORE

### ANSI A156.12 GRADE 2



**LIFETIME  
WARRANTY**

**MEETS**  
*The Buy American Act*

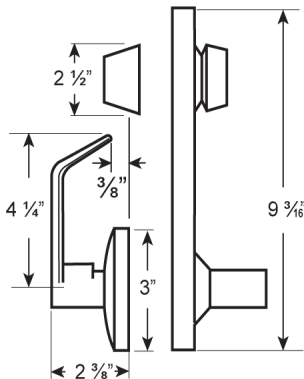


Meets ADA requirements  
Specially designed for Barrier Free Application  
Conforms with ANSI A156.12 Series 5000,  
Grade 2 Exceeds 400,000 cycles

1" (25mm) Throw. UL Listed  
Adjustable 2 3/8" or 2 3/4" deadbolt  
latch with concealed hardened  
steel roller

Standard 2 1/4" x 1".  
Packed with plastic filler to  
convert 1" face plate to  
1 1/8" wide door preparations

1/2" (13mm) Throw universal  
deadlatch reversible RH / LH,  
adjustable front for flat or  
beveled doors. UL Listed  
3 Hour Rated



Unique individual spring on  
exterior and interior side of  
lever to prevent lever sag

Precision solid brass 6-pin  
"C" keyway.

Available with Small Format  
Interchangeable Core on  
deadbolt and lever

#### OPTIONAL INDICATOR DEADBOLT INTERCONNECTED LOCK

**IND-JHIL  
DESIGN**



#### INTERIOR

ADA  
Thumbturn  
Design



Interconnecting mechanism  
Optional CTC 4" and 5 1/2"

**OPTIONAL EXTERIOR  
ESCUTCHEON PLATE  
PART# HILESC-1**  
(Available for 4" CTC only)



#### DOVER JHILDOV DESIGN



Available with Interchangeable Core  
on deadbolt and lever.  
Available with Schlage Large Format  
Interchangeable Core on deadbolt only.

#### MANHATTAN JHILMAN DESIGN



Available with Interchangeable Core  
on deadbolt and lever.  
Available with Schlage Large Format  
Interchangeable Core on deadbolt only.

#### ROCHESTER JHILROC DESIGN



Available with Interchangeable Core  
on deadbolt and lever.  
Available with Schlage Large Format  
Interchangeable Core on deadbolt only.

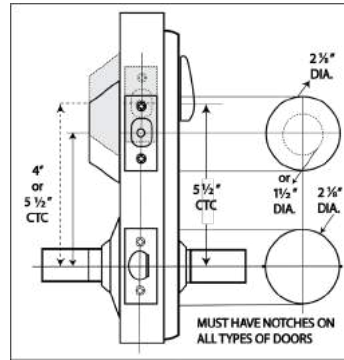
# JHIL SERIES FINISHES, FUNCTIONS AND SPECIFICATIONS



FINISHES AVAILABLE		
BHMA SYMBOL	US CODE	DESCRIPTION
622	US1	Flat Black Coated
605	US3	Polished Brass
606	US4	Satin Brass
609	US5	Antique Brass
613	US10B	Oil Rubbed Bronze
619	US15	Satin Nickel
625	US26	Polished Chrome
626	US26D	Satin Chrome

Refer to price list for stock finishes and functions

## DOOR PREPARATION



**LIFETIME  
WARRANTY**



## SPECIFICATIONS

**GENERAL SPECIFICATIONS:** Simultaneous retraction on both latch and deadbolts from inside by turning the lever in a panic-proof exit situation. Top lock is heavy duty deadbolt with the bottom lock having a cylindrical body. High security with a double locking point using the keyed lock function.

**ANSI STANDARDS:** Meets ANSI A156.12, Series 5000, Grade 2 Requirements.

**CYLINDER & KEYWAY:** 6 pin solid brass "C" keyway, Schlage E, Schlage C-K, Russwin D1-2-3-4, Corbin 59 / 60, Sargent LA-LB-LC, Falcon / Weiser E, Arrow A, Yale 8, Yale GA and Kwikset. Can also accept Medeco, Assa, Kaba and Cal-Royal (HSK) High security Cylinders.

**SMALL FORMAT INTERCHANGEABLE CORE:** Interchangeable Core Locks will accept compatible 6 or 7 pin cores with **BEST, FALCON & ARROW**. Prefix "IC" before part number. Available combined or uncombined. Temporary construction cores and factory keying with control key & master key available.

**LARGE FORMAT INTERCHANGEABLE CORE:** Interchangeable Core Locks for **SCHLAGE**. Prefix "ICSC" before part number, on deadbolt only.

**HOUSING:** Steel and Zinc dichromate finish for rust resistance.

**STRIKES:** Standard "T" strike furnished with lockset. 2 3/4" x 1 1/8" square strike with deadbolt.

**ESCUTCHEON:** 9 3/16" x 3 3/16" brass plated. Packed with interior escutcheon. Optional external escutcheon available.

**FUNCTIONS:** Entrance (Double Locking), Classroom, Storeroom and Dummy available upon request.

**DEADBOLT:** 1" Throw. **UL-Listed** Adjustable 2 3/4" or 2 3/8" Brass with hardened steel pin. Standard 2 1/4" x 1" face plate, packed with plastic filler for 1 1/8" door preparations.

**LATCH BOLT:** 1/2" Throw. **UL-Listed** for 3 hour doors. 2 3/4" standard backset with 2 3/8" optional.

**LATCH FACEPLATE:** Standard 2 1/4" x 1" face plate, packed with plastic filler for 1 1/8" door preparations.

**DOOR RANGE:** 1 3/8" – 1 3/4"

**TRIM:** JHIL, DOVER, MANHATTAN and ROCHESTER designs. Refer to picture in front page. Lever length is 4 1/4".

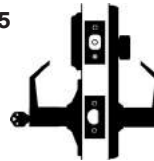
**JHIL30**  
**ICJHIL30**  
**ICSCJHIL30**  
ANSI: F95



### SINGLE LOCKING, ENTRANCE (PASSAGE LEVER)

Deadbolt thrown or retracted by key in upper lock from outside or by inside turn unit. Latch bolt is retracted by lever from either side. Lever retracts deadbolt and latch bolt simultaneously for immediate exit.

**IND-JHIL05**



### INDICATOR DEADBOLT, STOREROOM LEVER

Deadbolt thrown or retracted by emergency key in upper lock from outside or by thumbturn inside. Deadlocking latch bolt is operated by key outside or by turning inside lever. Inside lever retracts deadbolt and latch bolt simultaneously for immediate exit. Outside lever is always fixed.

**JHIL00**  
**ICJHIL00**  
ANSI: F97



### DOUBLE LOCKING, ENTRANCE (ENTRANCE LEVER)

Deadbolt thrown or retracted by key in upper lock from outside or by inside turn unit. Dead latch retracted by key in outer when locked by pushing turn button in inner lever. Outer lever may be fixed in locked position by rotating turn button. Turning inside lever retracts deadbolt and latch bolt simultaneously for immediate exit.

**IND-JHIL30**



### INDICATOR DEADBOLT, PASSAGE LEVER

Deadbolt thrown or retracted by emergency key in upper lock from outside or by thumbturn inside. Latch bolt is retracted by lever from either side. Lever retracts deadbolt and latch bolt simultaneously for immediate exit.

## HOW TO ORDER:

When ordering JHIL DOV design, replace design name.  
Example: JHIL00 in DOV is JHILDOV00

**JHIL05**  
ANSI: F98



### DOUBLE LOCKING, STOREROOM

Deadbolt thrown or retracted by key in upper lock from outside or by Thumbturn inside. Deadlocking latch bolt is operated by key in outside lever or by turning inside lever. Inside lever retracts deadbolt and latchbolt simultaneously for immediate exit. Outside lever is always fixed.

## OTHER FUNCTIONS NOT LISTED ARE AVAILABLE UPON REQUEST

- Indicates **deadbolts** that are available with a Small Format Interchangeable Core. Interchangeable Core deadbolts will accept compatible 6 or 7 pin Core with **Best, Falcon and Arrow**. Prefix "IC" before part number.
- Indicates **deadbolts** that are available with Large Format Interchangeable Core. Large Format Interchangeable Core deadbolts for **Schlage**. Prefix "ICSC" before part number.

# CIL SERIES

## CONTEMPORARY INTERCONNECTED LOCKS

### OPTIONAL 4" or 5 1/2" CTC BORE ANSI A156.12 GRADE 2



**LIFETIME  
WARRANTY**

**MEETS**  
*The Buy American Act*



Meets ADA requirements  
Specially designed for Barrier Free Application  
Conforms with ANSI A156.12 Series 5000, Grade 2  
Exceeds 400,000 cycles

1" (25mm) Throw. Adjustable  
2 3/8" - 2 3/4" deadbolt latch  
with concealed hardened  
steel roller

Standard 2 1/4" x 1".  
Packed with plastic filler  
to convert 1" face plate to  
1 1/8" wide door preparations

1/2" (13mm) Throw universal  
deadlatch reversible RH / LH,  
adjustable front for flat or  
beveled doors. UL Listed  
3 Hour Rated

Precision solid brass  
6-pin "C" keyway.  
Available with SFIC on  
deadbolt and lever, or

SFIC or LFIC on deadbolt only

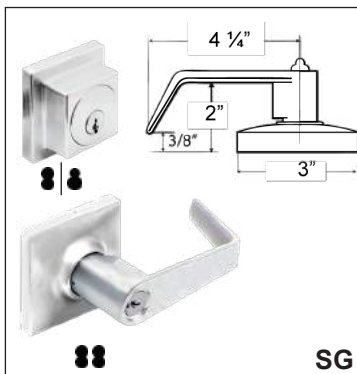


#### INTERIOR



Interconnecting mechanism  
Optional CTC 4" and 5 1/2"

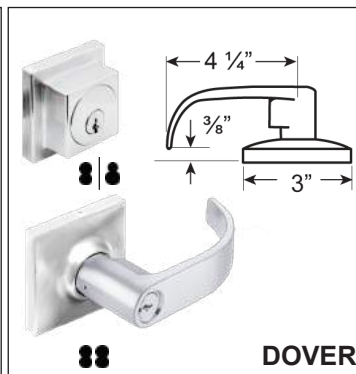
Unique individual spring on  
exterior and interior side of  
lever to prevent lever sag



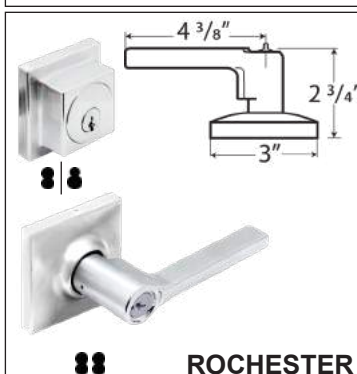
**SG**



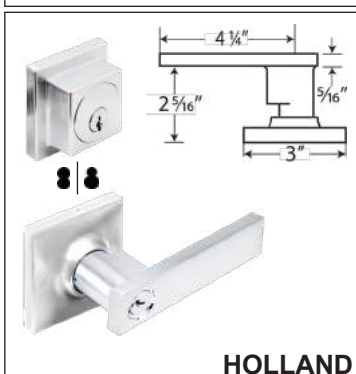
**MANHATTAN**



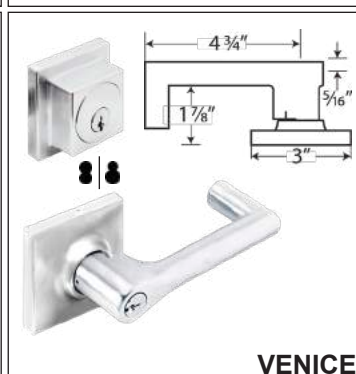
**DOVER**



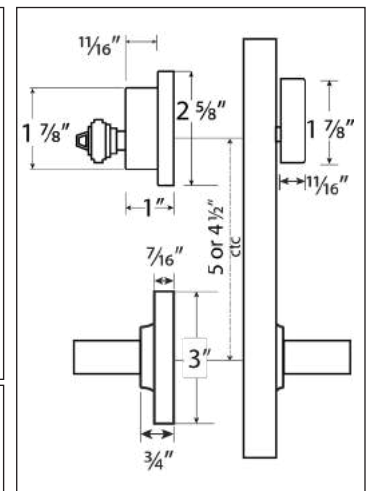
**ROCHESTER**



**HOLLAND**



**VENICE**



#### IC CORE OPTIONS

Available with SFIC on deadbolt only
Available with SFIC on deadbolt and lever
Available with Schlage LFIC on deadbolt only



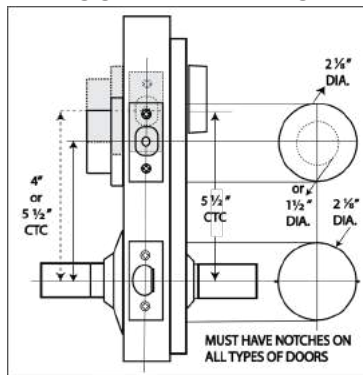
# CIL SERIES FINISHES, FUNCTIONS AND SPECIFICATIONS



FINISHES AVAILABLE		
BHMA SYMBOL	US CODE	DESCRIPTION
622	US1	Flat Black Coated
605	US3	Polished Brass
613	US10B	Oil Rubbed Bronze
619	US15	Satin Nickel
626	US26D	Satin Chrome

Refer to price list for stock finishes and functions

## DOOR PREPARATION



**LIFETIME  
WARRANTY**



## SPECIFICATIONS

**GENERAL SPECIFICATIONS:** Simultaneous retraction on both latch and deadbolts from inside by turning the lever in a panic-proof exit situation. Top lock is heavy duty deadbolt with the bottom lock having a cylindrical body. High security with a double locking point using the keyed lock function.

**ANSI STANDARDS:** Meet ANSI A156.12 Series 5000 Grade 2 Requirements.

**CYLINDER & KEYWAY:** 6-pin solid brass "C" keyway, Schlage E, Schlage C-K, Russwin D1-2-3-4, Corbin 59 / 60, Sargent LA-LB-LC, Falcon / Weiser E, Arrow A, Yale 8, Yale GA and Kwikset. Can also accept Medeco, Assa, Kaba and Cal-Royal (HSK) High security Cylinders.

**SMALL FORMAT INTERCHANGEABLE CORE:** Interchangeable Core Locks will accept compatible 6 or 7 pin cores with **BEST, FALCON & ARROW**. Prefix "IC" before part number. Available combined or uncombined. Temporary construction cores and factory keying with control key & master key available.

**LARGE FORMAT INTERCHANGEABLE CORE:** Interchangeable Core Locks for **SCHLAGE**. Prefix "ICSC" before part number, on deadbolt only.

**HOUSING:** Steel and Zinc dichromate finish for rust resistance.

**STRIKES:** Standard "T" strike furnished with lockset. 2 3/4" x 1 1/8" square strike with deadbolt.

**ESCUTCHEON:** 9 9/16" x 3 1/8" brass plated. Packed with interior escutcheon. Optional external escutcheon available.

**FUNCTIONS:** Entrance (Double Locking), Classroom, Storeroom and Dummy available upon request.

**DEADBOLT:** 1" Throw. **UL-Listed** Adjustable 2 3/4" or 2 1/2" Brass with hardened steel pin. Standard 2 1/4" x 1" face plate, packed with 1/8" plastic filler for 1 1/8" door preparations..

**LATCH BOLT:** 1/2" Throw. **UL-Listed** for 3 hour doors. 2 3/4" standard backset with 2 3/8" optional.

**LATCH FACEPLATE:** Standard 2 1/4" x 1" face plate, packed with 1/8" plastic filler for 1 1/8" door preparations.

**DOOR RANGE:** 1 3/8" – 1 3/4" door thickness

**TRIM:** SG, DOVER, MANHATTAN, ROCHESTER, HOLLAND and VENICE designs. Refer to picture in front page.

## HOW TO ORDER:

For "DOV", "MAN", "ROC", "HOL", "VEN" designs, replace "SG" with design name.

**Example:** CILSG00 US26D in DOV design is CILDOV00 US26D



### SINGLE LOCKING, ENTRANCE (PASSAGE LEVER)

Deadbolt thrown or retracted by key in upper lock from outside or by inside turn unit. Latch bolt retracted by lever from either side. Lever retracts deadbolt and latch bolt simultaneously for immediate exit.



### DOUBLE LOCKING, ENTRANCE (ENTRANCE LEVER)

Deadbolt thrown or retracted by key in upper lock from outside or by inside turn unit. Dead latch retracted by key in outer when locked by pushing turn button in inner lever. Outer lever may be fixed in locked position by rotating turn button. Turning inside lever retracts deadbolt and latch bolt simultaneously for immediate exit.

**Available with Small Format Interchangeable Core on **Deadbolt** only (Lever Passage)**

**Available with Large Format Interchangeable Core on **Deadbolt** only (Lever Passage)**

**Available with Small Format Interchangeable Core on **Deadbolt and Lever** (Entrance)**



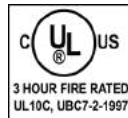
# SQ300 SERIES

## CONTEMPORARY SQUARE

## HEAVY DUTY DEADBOLTS

### FOR COMMERCIAL AND RESIDENTIAL APPLICATIONS

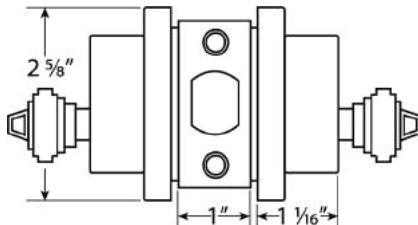
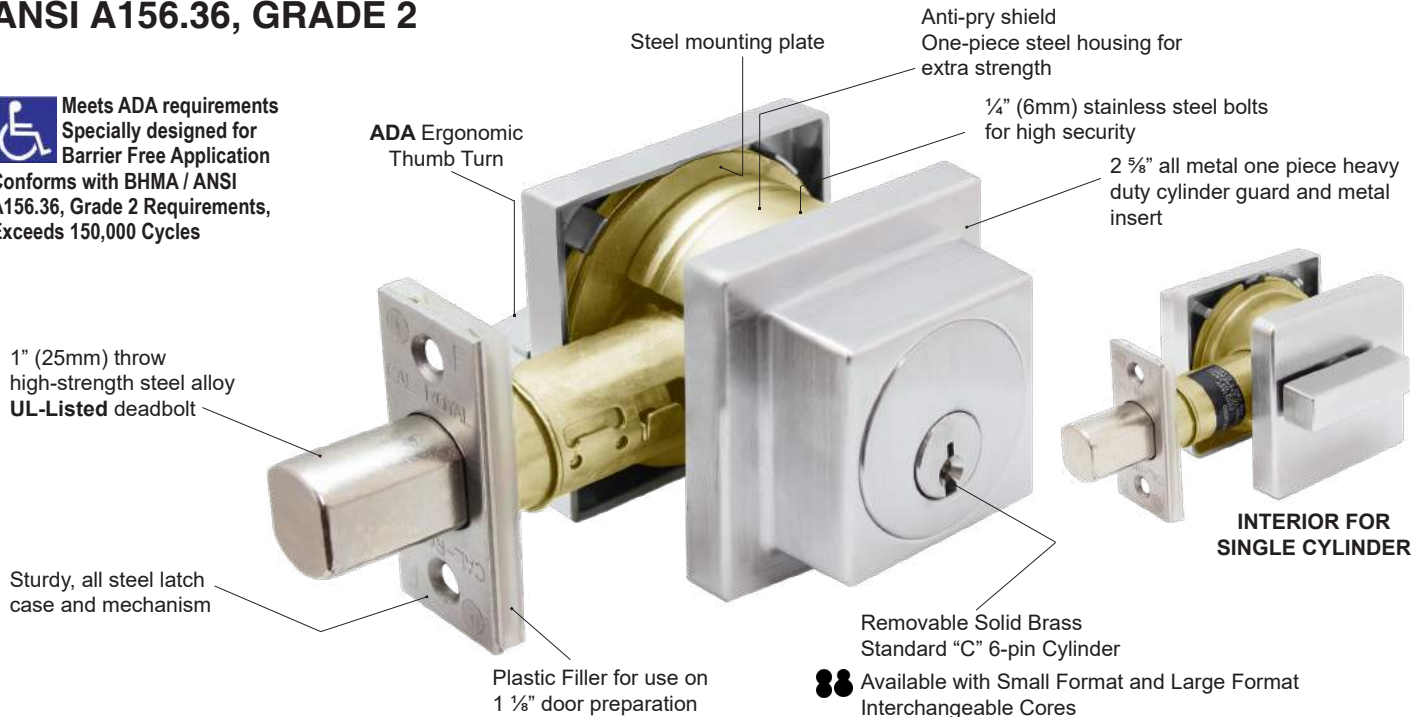
### ANSI A156.36, GRADE 2



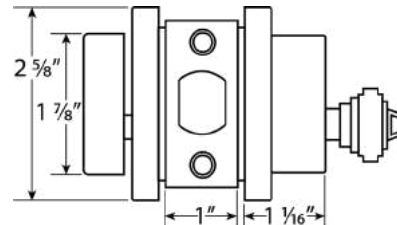
**LIFETIME  
WARRANTY**

**MEETS**  
*The Buy American Act*

Meets ADA requirements  
Specially designed for  
Barrier Free Application  
Conforms with BHMA / ANSI  
A156.36, Grade 2 Requirements,  
Exceeds 150,000 Cycles



**SQ-330 DOUBLE  
CYLINDER**



**SQ-220 SINGLE  
CYLINDER**

#### SPECIFICATIONS

##### TRIM

Wrought Brass or Zinc

##### DOOR RANGES

Adjustable 1 3/8" (35mm) to 1 3/4" (45mm) door thickness.

##### BACKSET

Adjustable UL Listed 3 Hour Fire Rating  
2 3/8" or 2 3/4" latch bolt.

##### DEADBOLT FACEPLATE

Standard 2 1/4" x 1" packed with 1/8" plastic filler to  
convert 1" face plate to 1 1/8" wide door preparations.

##### BORE DIAMETER

1" for latch, 2 1/8" for lock housing.

##### STRIKE

1 1/8" x 2 3/4" Square Corner. Extra security 1" throw bolt with 1/4" free spinning  
anti-cut through pin. 2 pcs x 3" screws with wood frame reinforcer greatly  
strengthens door frames.

##### KEYWAYS

6 pin solid brass "C" keyway standard. Schlage E, Schlage C-K,  
Russwin D1-2-3-4, Corbin 59 / 60, Corbin-Russwin L4,  
Sargent LA-LB-LC, Falcon / Weiser E, Arrow A, Yale 8, Yale GA and Kwikset.  
Can also accept Medeco, Assa, Kaba and Cal-Royal (HSK) High Security  
Cylinders.

##### INTERCHANGEABLE CORE

- Interchangeable Core locks will accept compatible 6 or 7-Pin cores  
with BEST, FALCON and ARROW and
- Schlage Large Format Interchangeable Core.

# SQ300 SERIES FINISHES AND FUNCTIONS



FINISHES AVAILABLE		
BHMA SYMBOL	US CODE	DESCRIPTION
---	US1	Black
606	US4	Satin Brass
613	US10B	Oil Rubbed Bronze
619	US15	Satin Nickel
626	US26D	Satin Chrome

Refer to price list for stock finishes and functions

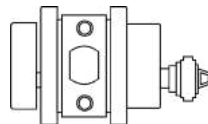


**LIFETIME WARRANTY**

**MEETS**  
*The Buy American Act*



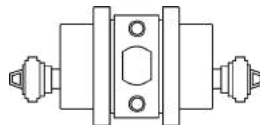
● **SQ-220**  
● **ICSQ-220**  
● **ICSCSQ-220**  
ANSI E0152



## Heavy Duty Single Cylinder Deadbolt

Deadbolt thrown or retracted by key from outside or by inside turn unit. Bolt automatically deadlocks when fully thrown.

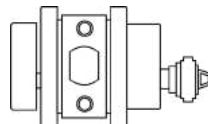
● **SQ-330**  
● **ICSQ-330**  
● **ICSCSQ-330**  
ANSI E0142



## Heavy Duty Double Cylinder Deadbolt

Deadbolt thrown or retracted by key from either side. Bolt automatically deadlocks when fully thrown.

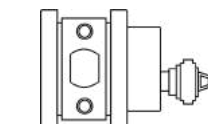
● **SQ-600**  
● **ICSQ-600**  
● **ICSCSQ-600**  
ANSI E0172



## Classroom Deadbolt Lock

Deadbolt thrown or retracted by key from outside. Inside turn unit will retract bolt only. Bolt automatically deadlocks when fully thrown.

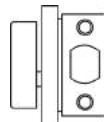
● **SQ-700**  
● **ICSQ-700**  
● **ICSCSQ-700**  
ANSI E1161



## One Way Dead Bolt WITH INTERNAL PLATE

Deadbolt thrown or retracted by key only. Bolt automatically deadlocks when fully thrown. Blank plate inside (exposed screws).

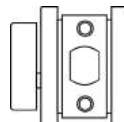
**SQ-363**



## One Sided Dead Bolt

Deadbolt thrown or retracted by turn unit only. No outside trim. Bore halfway through door for installation visible from one side of door only.

**SQ-365**



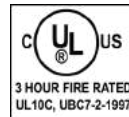
## One Sided Dead Bolt WITH EXTERNAL PLATE

Deadbolt thrown or retracted by turn unit only. Blank plate is on external trim to be used on bore holes 2 1/8" wide.

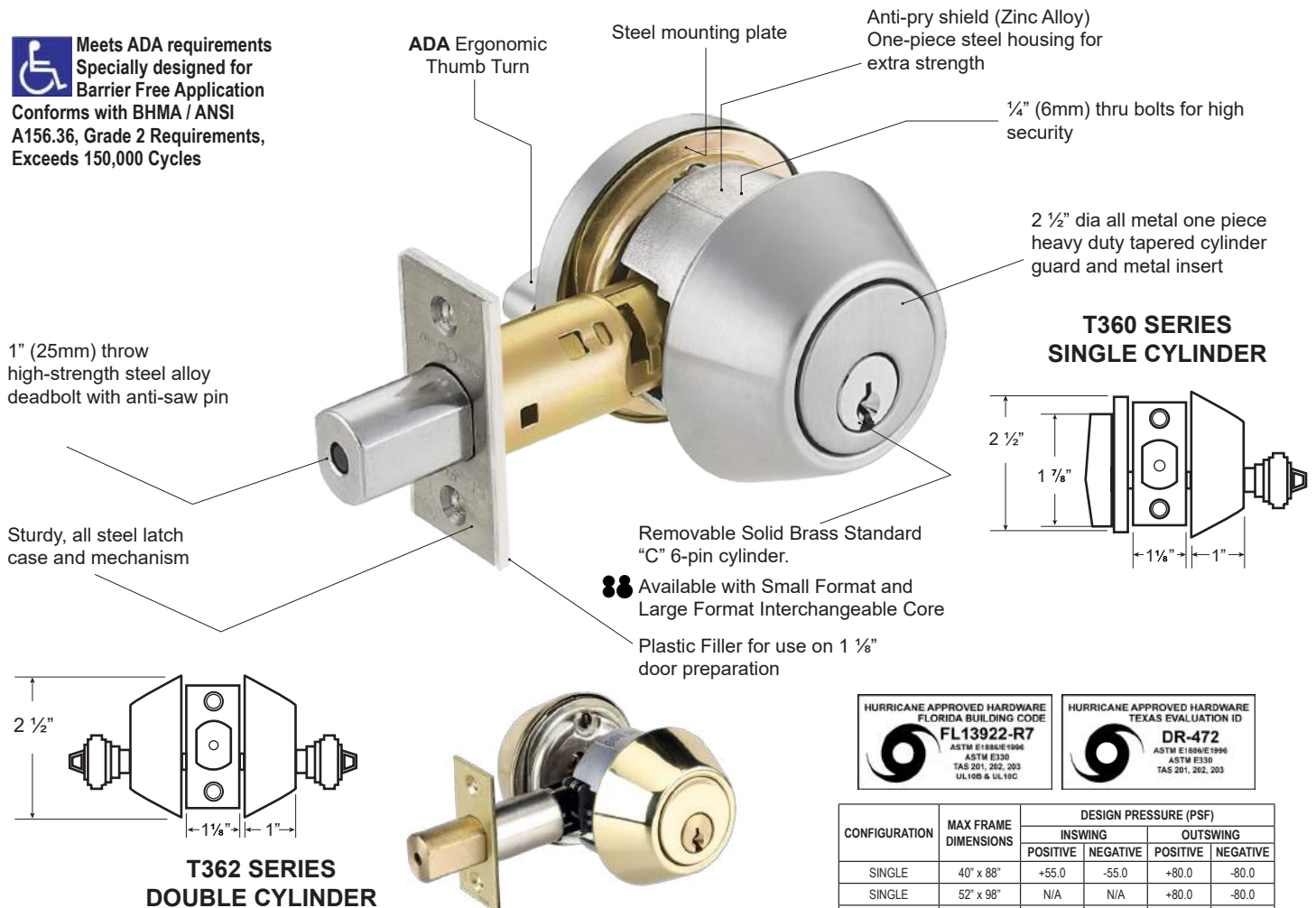
## OTHER FUNCTIONS NOT LISTED ARE AVAILABLE UPON REQUEST

- "IC" Indicates functions available with Interchangeable Core compatible with 6 or 7-Pin cores by Best, Falcon and Arrow.
- "ICSC" Indicates deadbolts that are available with Schlage Large Format Interchangeable Core

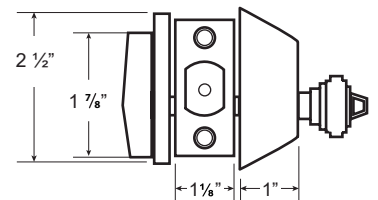
### T300 MAXIMUM SECURITY HEAVY DUTY DEADBOLTS FOR COMMERCIAL AND RESIDENTIAL APPLICATIONS



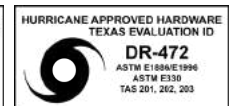
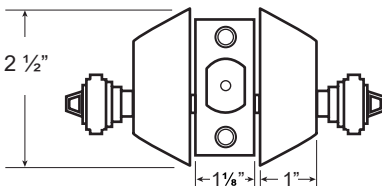
Meets ADA requirements  
Specially designed for  
Barrier Free Application  
Conforms with BHMA / ANSI  
A156.36, Grade 2 Requirements,  
Exceeds 150,000 Cycles



### T360 SERIES SINGLE CYLINDER



### T362 SERIES DOUBLE CYLINDER



CONFIGURATION	MAX FRAME DIMENSIONS	DESIGN PRESSURE (PSF)			
		INSWING		OUTSWING	
		POSITIVE	NEGATIVE	POSITIVE	NEGATIVE
SINGLE	40" x 88"	+55.0	-55.0	+80.0	-80.0
SINGLE	52" x 98"	N/A	N/A	+80.0	-80.0
DOUBLE	76" x 88"	+55.0	-55.0	+55.0	-55.0

## SPECIFICATIONS

### TRIM

Wrought Brass or Stainless Steel.

### DOOR RANGES

Adjustable 1 3/8" (35mm) to 1 3/4" (45mm) door thickness. Optional 2 1/4" thick doors. Specify conversion kit for single (CONV T360) or double (CONV T362) Cylinder.

### BACKSET

Adjustable UL Listed 3 Hour Fire Rating 2 3/8" or 2 3/4" latch bolt.

### DEADBOLT FACEPLATE

Standard 2 1/4" X 1" packed with 1/8" plastic filler to convert 1" face plate to 1 1/8" wide door preparations.

### BORE DIAMETER

1" for latch, 2 1/8" for lock housing.

### STRIKE

1 1/8" x 2 3/4" square corner. Extra security 1" throw bolt with 1/4" free spinning anti-cut through pin. 2 pcs x 3" screws with wood frame reinforcer greatly strengthens door frames.

### KEYWAYS

6 pin solid brass "C" keyway standard. Schlage E, Schlage C-K, Russwin D1-2-3-4, Corbin 59 / 60, Corbin-Russwin L4, Sargent LA-LB-LC, Falcon / Weiser E, Arrow A, Yale 8, Yale GA and Kwikset. Can also accept Medeco, Assa, Kaba and Cal-Royal (HSK) High Security Cylinders.

### INTERCHANGEABLE CORE

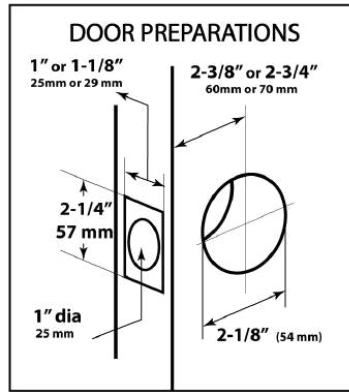
- Interchangeable Core locks will accept compatible 6 or 7-Pin cores with BEST, FALCON and ARROW.
- Interchangeable Core locks will also accept SCHLAGE full size Large format OEM interchangeable core cylinders and compatible Schlage 6-pin Interchangeable Core. Interchangeable Core offered by Cal-Royal Products, Inc.

# T300 SERIES FINISHES AND FUNCTIONS



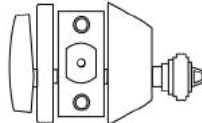
FINISHES AVAILABLE		
BHMA SYMBOL	US CODE	DESCRIPTION
622	US1	Flat Black Coated
605	US3	Polished Brass
606	US4	Satin Brass
609	US5	Antique Brass
612	US10	Satin Bronze
613	US10B	Oil Rubbed Bronze
619	US15	Satin Nickel
625	US26	Polished Chrome
626	US26D	Satin Chrome
630	US32D	Satin Stainless Steel

Refer to price list for stock finishes and functions



CONFIGURATION	MAX FRAME DIMENSIONS	DESIGN PRESSURE (PSF)			
		INSWING		OUTSWING	
		POSITIVE	NEGATIVE	POSITIVE	NEGATIVE
SINGLE	40" x 88"	+55.0	-55.0	+80.0	-80.0
SINGLE	52" x 98"	N/A	N/A	+80.0	-80.0
DOUBLE	76" x 88"	+55.0	-55.0	+55.0	-55.0

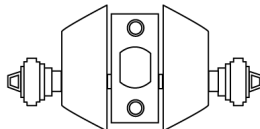
**ULT360**  
**ICULT360**  
**SCICULT360**  
 ANSI E0152



## Heavy Duty Single Cylinder Deadbolt

Deadbolt thrown or retracted by key from outside or by inside turn unit. Bolt automatically deadlocks when fully thrown.

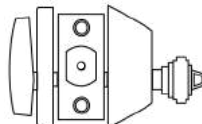
**ULT362**  
**ICULT362**  
 ANSI E0142



## Heavy Duty Double Cylinder Deadbolt

Deadbolt thrown or retracted by key from either side. Bolt automatically deadlocks when fully thrown.

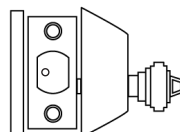
**CL600**  
**ICCL600**  
 ANSI E0172



## Classroom Deadbolt Lock

Deadbolt thrown or retracted by key from outside. Inside turn unit will retract bolt only. Bolt automatically deadlocks when fully thrown.  
*(fixed 2 3/4" latch bolt standard; specify 2 3/8" backset option)*

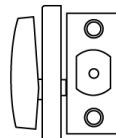
**ULT700**  
**ICULT700**  
 ANSI E1161



## One Way Dead Bolt WITH INTERNAL PLATE

Deadbolt thrown or retracted by key only. Bolt automatically deadlocks when fully thrown. Blank plate inside (exposed screws).

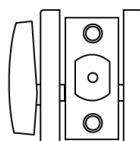
**ULID363**



## One Sided Dead Bolt

Deadbolt thrown or retracted by turn unit only. No outside trim. Bore halfway through door for installation visible from one side of door only.

**ULID365**



## One Sided Dead Bolt WITH EXTERNAL PLATE

Deadbolt thrown or retracted by turn unit only. Blank plate is on external trim to be used on bore holes 2 1/8" wide.


**OTHER FUNCTIONS NOT LISTED ARE AVAILABLE UPON REQUEST**

- "IC" Indicates functions available with Interchangeable Core compatible with 6 or 7-Pin cores by Best, Falcon and Arrow.
- "SCIC" Indicates functions available with Schlage Full Size Large Format Interchangeable Core.



# T400 MAXIMUM SECURITY HEAVY DUTY DEADBOLTS FOR COMMERCIAL AND RESIDENTIAL APPLICATIONS GRADE 2

**LIFETIME  
WARRANTY**

 Meets ADA requirements  
Specially designed for  
Barrier Free Application  
Conforms with BHMA / ANSI  
A156.36, Grade 2 Requirements,  
Exceeds 150,000 Cycles

Sturdy, all steel latch  
case and mechanism,  
adjustable 2 3/8" or 2 3/4"

1/8" Plastic Filler to convert  
1" face plate to 1 1/8" wide door  
preparations

1" (25mm) throw  
high-strength steel  
alloy deadbolt with  
anti-saw pin



ADA Ergonomic  
Thumb Turn

Steel mounting plate

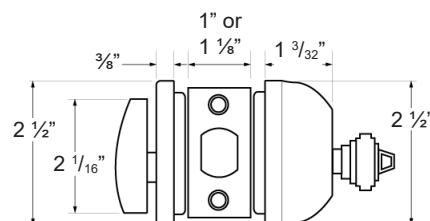
2 1/2" dia all metal one piece  
heavy duty tapered cylinder  
guard and metal insert, turns  
free with any removal attempt

Removable Solid Brass  
Standard "C" 6-pin  
or 5-pin Kwikset KW1  
cylinder



**T460 SERIES  
SINGLE CYLINDER DEADBOLT**

## T460 DEADBOLT



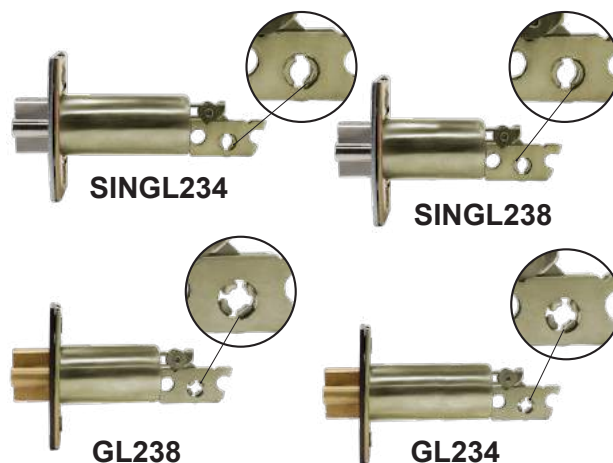
### GL460 GATE LATCH SINGLE CYLINDER



### GL462 GATE LATCH DOUBLE CYLINDER



**SINGL238** - 2 3/8" backset gate latch and for single cylinder deadbolt  
**SINGL234** - 2 3/4" backset gate latch and for single cylinder deadbolt  
**GL238** - 2 3/8" backset gate latch and for double cylinder deadbolt  
**GL234** - 2 3/4" backset gate latch and for double cylinder deadbolt



## SPECIFICATIONS

### TRIM

Wrought Brass or Stainless Steel.

### DOOR RANGES

Adjustable 1 3/8" (35mm) to 2" (50.75mm) door thickness.

### BACKSET

Adjustable 2 3/8" or 2 3/4" latch bolt. Gate latch available  
in 2 3/8" and 2 3/4".

### DEADBOLT FACEPLATE

Latch bolt: Standard 2 1/4" x 1" packed with 1/8" plastic filler  
to convert 1" face plate to 1 1/8" wide door preparations.  
Gate latch: 2 1/4" x 1 1/8" face plate for both 2 3/8" and 2 3/4".

### BORE DIAMETER

1" for latch, 2 1/8" or 1 1/2" for lock housing.

### STRIKE

1 1/8" x 2 3/4" square corner. Extra security 1" throw bolt .  
3" screws with wood frame reinforcer greatly strengthens door  
frames.

### KEYWAYS

Optional 6-pin solid brass "C" or 5-pin Kwikset KW1 keyways  
standard. Schlage E, Schlage C-K, Russwin D1-2-3-4,  
Corbin 59 / 60, Corbin-Russwin L4, Sargent LA-LB-LC, Falcon /  
Weiser E, Arrow A, Yale 8 and Yale GA. Can also accept Medeco,  
Assa, Kaba and Cal-Royal (HSK) High Security Cylinders.

# T400 SERIES FINISHES AND FUNCTIONS



## FINISHES AVAILABLE

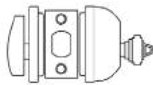
BHMA SYMBOL	US CODE	DESCRIPTION
605	US3	Polished Brass
606	US4	Satin Brass
609	US5	Antique Brass
612	US10	Satin Bronze
613	US10B	Oil Rubbed Bronze
619	US15	Satin Nickel
625	US26	Polished Chrome
626	US26D	Satin Chrome
---	US11P	(VB) Venetian Bronze

Refer to price list for stock finishes and functions



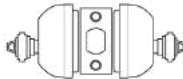
**LIFETIME  
WARRANTY**

### T460 ANSI E152



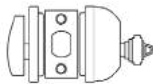
**Heavy Duty Single Cylinder Deadbolt (6 pin "C" Keyway Cylinder)**  
Deadbolt thrown or retracted by key from outside or by inside turn unit. Bolt automatically deadlocks when fully thrown.

### T462 ANSI E0142



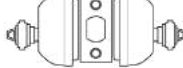
**Heavy Duty Double Cylinder Deadbolt (6 pin "C" Keyway Cylinder)**  
Deadbolt thrown or retracted by key from either side. Bolt automatically deadlocks when fully thrown.

### KWT460 ANSI E0152



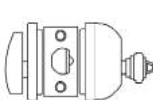
**Heavy Duty Single Cylinder Deadbolt (5 pin Kwikset KW1 Cylinder)**  
Deadbolt thrown or retracted by key from outside or by inside turn unit. Bolt automatically deadlocks when fully thrown.

### KWT462 ANSI E0142



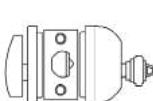
**Heavy Duty Double Cylinder Deadbolt (5 pin Kwikset KW1 Cylinder)**  
Deadbolt thrown or retracted by key from either side. Bolt automatically deadlocks when fully thrown.

### GL460 ANSI E0152



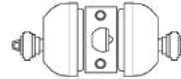
**Heavy Duty Single Cylinder Gate Latch (6 pin "C" Keyway Cylinder)**  
**2 3/8" Backset**  
Gate Latch thrown or retracted by key from outside or by inside turn unit. Latch automatically deadlocks when fully thrown.

### GL460 / 234 ANSI E0152



**Heavy Duty Single Cylinder Gate Latch (6 pin "C" Keyway Cylinder)**  
**2 3/4" Backset**  
Gate Latch thrown or retracted by key from outside or by inside turn unit. Latch automatically deadlocks when fully thrown.

### GL462 ANSI E0142



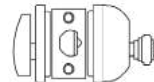
**Heavy Duty Double Cylinder Gate Latch (6 pin "C" Keyway Cylinder)**  
**2 3/8" Backset**  
Gate Latch thrown or retracted by key from either side. Latch automatically deadlocks when fully thrown.

### GL462 / 234 ANSI E0142



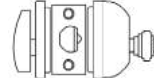
**Heavy Duty Double Cylinder Gate Latch (6 pin "C" Keyway Cylinder)**  
**2 3/4" Backset**  
Gate Latch thrown or retracted by key from either side. Latch automatically deadlocks when fully thrown.

### GLKW460 ANSI E0152



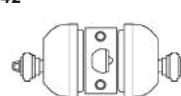
**Heavy Duty Single Cylinder Gate Latch (5 pin Kwikset KW1 Cylinder)**  
**2 3/8" Backset**  
Gate Latch thrown or retracted by key from outside or by inside turn unit. Latch automatically deadlocks when fully thrown.

### GLKW460 / 234 ANSI E0152



**Heavy Duty Single Cylinder Gate Latch (5 pin Kwikset KW1 Cylinder)**  
**2 3/4" Backset**  
Gate Latch thrown or retracted by key from outside or by inside turn unit. Latch automatically deadlocks when fully thrown.

### GLKW462 ANSI E0142

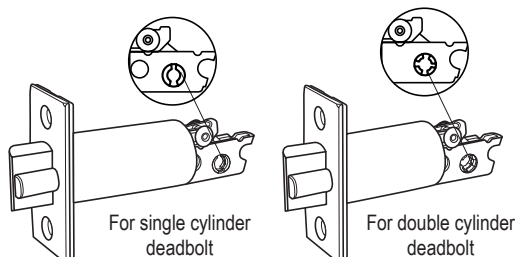


**Heavy Duty Double Cylinder Gate Latch (5 pin Kwikset KW1 Cylinder)**  
**2 3/8" Backset**  
Gate Latch thrown or retracted by key from either side. Latch automatically deadlocks when fully thrown.

### GLKW462 / 234 ANSI E0142



**Heavy Duty Double Cylinder Gate Latch (5 pin Kwikset KW1 Cylinder)**  
**2 3/4" Backset**  
Gate Latch thrown or retracted by key from either side. Latch automatically deadlocks when fully thrown.



## ADDITIONAL PARTS

SINGL238	2 3/8" backset gate latch (1 1/8" x 2 1/4") for single cylinder deadbolt
SINGL234	2 3/4" backset gate latch (1 1/8" x 2 1/4") for single cylinder deadbolt
GL238	2 3/8" backset gate latch (1 1/8" x 2 1/4") for double cylinder deadbolt
GL234	2 3/4" backset gate latch (1 1/8" x 2 1/4") for double cylinder deadbolt

OTHER FUNCTIONS NOT LISTED ARE AVAILABLE UPON REQUEST

**CB160 STANDARD DUTY DEADBOLTS**  
**GL160 STANDARD DUTY GATE LATCHES**  
FOR STANDARD COMMERCIAL AND RESIDENTIAL APPLICATIONS

**LIFETIME  
WARRANTY**

Conforms with ANSI  
A156.36, Grade 2  
Exceeds 150,000 cycles

Latch front adapter to  
convert 1" face plate to 1 1/8"  
wide door preparations

Adjustable 2 3/8" –  
2 3/4" Deadbolt

Sturdy, all steel latch  
case and mechanism

ADA Ergonomic thumb turn

2 3/8" diameter Adapter Ring  
for 2 1/8" door preparations

2" diameter tapered  
cylinder guard and metal  
insert, turns free with any  
removal attempt

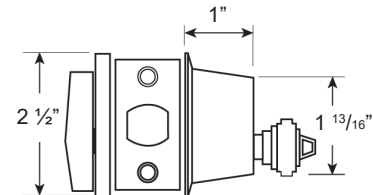
Removable Solid Brass  
Standard "C" 6-pin  
cylinder

Cast steel housing



**PART# SMTT-160**  
2" diameter Optional  
Small Thumbturn for  
1 1/2" door preparations

**CB160  
SINGLE CYLINDER**

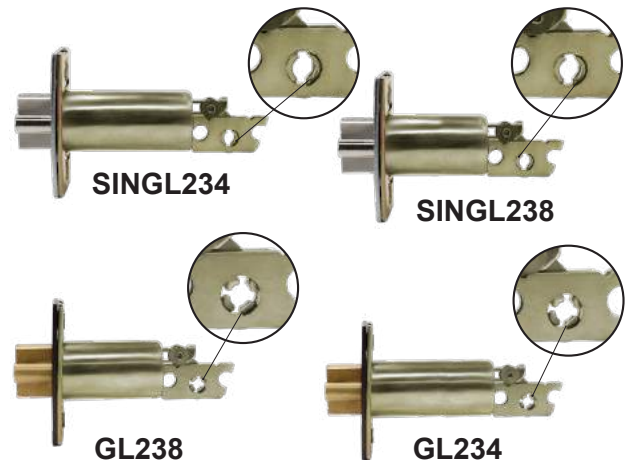


**GL162 GATE LATCH  
DOUBLE CYLINDER**

**GL160 GATE LATCH  
SINGLE CYLINDER**



**SINGL238** - 2 3/8" backset gate latch and for single cylinder deadbolt  
**SINGL234** - 2 3/4" backset gate latch and for single cylinder deadbolt  
**GL238** - 2 3/8" backset gate latch and for double cylinder deadbolt  
**GL234** - 2 3/4" backset gate latch and for double cylinder deadbolt



**SPECIFICATIONS**

**TRIM**

Wrought Brass or Stainless Steel.

**DOOR RANGES**

Adjustable 1 3/8" (35mm) to 1 3/4" (45mm) door thickness.

**BACKSET**

Adjustable 2 3/8" or 2 3/4".

**DEADBOLT FACEPLATE**

Latch bolt: Standard 2 1/4" x 1" packed with 1/8" plastic filler to  
convert 1" face plate to 1 1/8" wide door preparations.

**BORE DIAMETER**

1" for latch, 1 1/2" or 2 1/8" for lock housing.

**STRIKE**

1 1/8" x 2 3/4" square corner.

**KEYWAYS**

Standard 6-pin solid brass "C" keyway. Optional Schlage C-K  
composite with "E" keys, Schlage "E", Russwin D1-2-3-4,  
Corbin 59 / 60, Corbin-Russwin L4, Sargent LA-LB-LC,  
Falcon / Weiser E, Kwikset, Arrow A, Yale GA and Yale 8.



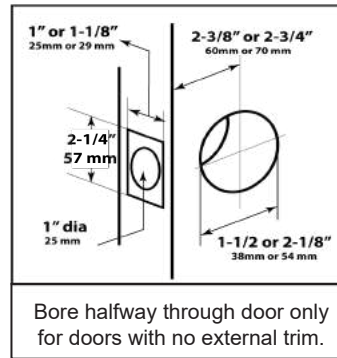
# CB160 SERIES FINISHES AND FUNCTIONS



FINISHES AVAILABLE		
BHMA SYMBOL	US CODE	DESCRIPTION
605	US3	Polished Brass
606	US4	Satin Brass
609	US5	Antique Brass
612	US10	Satin Bronze
613	US10B	Oil Rubbed Bronze
619	US15	Satin Nickel
625	US26	Polished Chrome
626	US26D	Satin Chrome

Refer to price list for stock finishes and functions

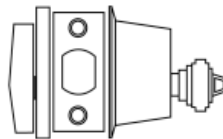
## DOOR PREPARATION



Bore halfway through door only for doors with no external trim.

**LIFETIME WARRANTY**

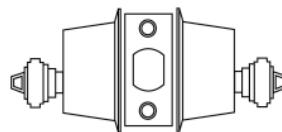
### CB160 ANSI E0152



#### Standard Duty Single Cylinder Deadbolt

Deadbolt thrown or retracted by key from outside or by inside turn unit. Bolt automatically deadlocks when fully thrown.

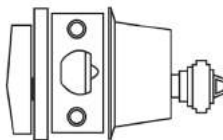
### CB162 ANSI E0142



#### Standard Duty Double Cylinder Deadbolt

Deadbolt thrown or retracted by key from either side. Bolt automatically deadlocks when fully thrown.

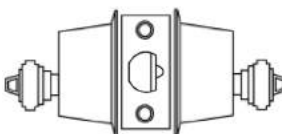
### GL160 ANSI E0152



#### Single Cylinder Gate Latch (2 3/8" backset)

Dead locking latch bolt retracted by key from outside and thumb turn on inside. Otherwise always locked.

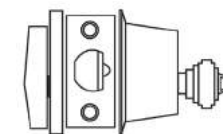
### GL162 ANSI E0142



#### Double Cylinder Gate Latch (2 3/8" backset)

Dead locking latch bolt retracted by key from either side. Otherwise always locked.

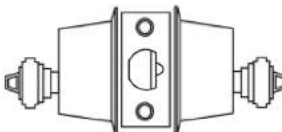
### GL160 / 234 ANSI E0152



#### Single Cylinder Gate Latch (2 3/4" backset)

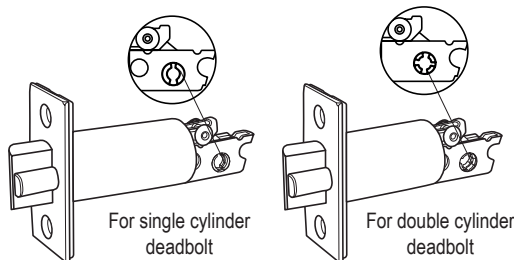
Dead locking latch bolt retracted by key from outside and thumb turn on inside. Otherwise always locked.

### GL162234 ANSI E0142



#### Double Cylinder Gate Latch (2 3/4" backset)

Dead locking latch bolt retracted by key from either side. Otherwise always locked.



For single cylinder deadbolt

For double cylinder deadbolt

## ADDITIONAL PARTS

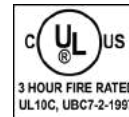
SINGL238	2 3/8" backset gate latch (1 1/8" x 2 1/4") for single cylinder deadbolt
SINGL234	2 3/4" backset gate latch (1 1/8" x 2 1/4") for single cylinder deadbolt
GL238	2 3/8" backset gate latch (1 1/8" x 2 1/4") for double cylinder deadbolt
GL234	2 3/4" backset gate latch (1 1/8" x 2 1/4") for double cylinder deadbolt

OTHER FUNCTIONS NOT LISTED ARE AVAILABLE UPON REQUEST

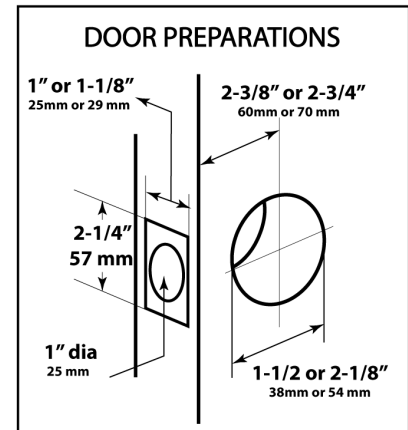
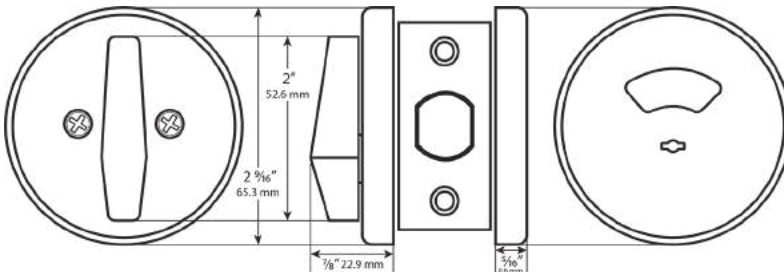
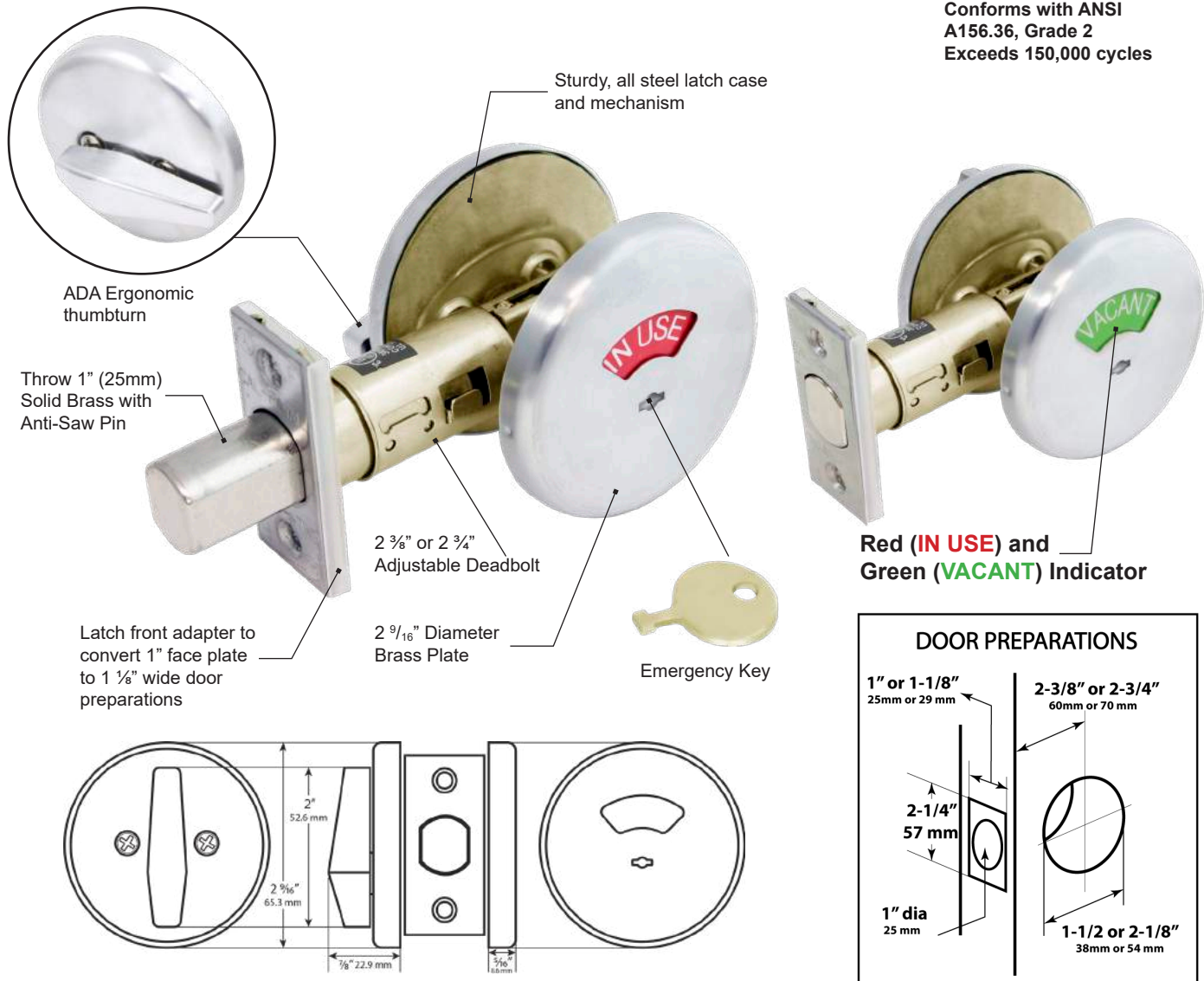
HOLD BACK FEATURE ON DEADBOLT WITH GATE LATCH NOT AVAILABLE



## IND90-G2 ANSI GRADE 2 INDICATOR DEADBOLTS FOR COMMERCIAL APPLICATIONS



Conforms with ANSI  
A156.36, Grade 2  
Exceeds 150,000 cycles



### SPECIFICATIONS

#### TRIM

Wrought Brass or Stainless Steel.

#### DOOR RANGES

Adjustable 1 3/8" (35mm) to 1 3/4" (45mm) door thickness.

#### BACKSET

Adjustable UL Listed 3 Hour Fire Rated 2 3/8" or 2 3/4".

#### DEADBOLT FACEPLATE

Standard 2 1/4" x 1" packed with 1 1/8" plastic filler to convert 1" face plate to 1 1/8" wide door preparations.

#### BORE DIAMETER

1" for latch, 1 1/2" or 2 1/8" for lock housing.

#### STRIKE

1 1/8" x 2 3/4" square corner.

#### FINISHES

IND90-G2 is available in stock in US26D, US26, US10B, US4, US3 and US1 finishes. Refer to price list for other stock finishes and functions.

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# LEVERSET / DEADBOLT COMBO PACK

**6-PIN "C" KEYWAY CYLINDER, KEYED ALIKE**

**PIONEER SL / T220 (SL00 / T220)**

SL SERIES (NON CLUTCH MECHANISM), OPTIONAL THRU BOLT  
INSTALLATION FOR COMMERCIAL AND RESIDENTIAL APPLICATIONS

**MEETS**  
*The Buy American Act*



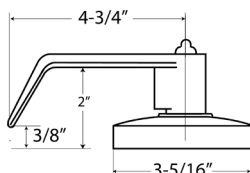
**PACKAGED TOGETHER  
IN THE SAME BOX**

Concealed screw  
mounting

UL LISTED 3 HOUR RATED  
1/2" Throw deadlatch completely  
reversible for flat & beveled doors

Individual spring on each  
side to prevent lever sag,  
maintain reliability and reduce  
maintenance

Full length lever handle  
with 3/8" return



**SL DESIGN**

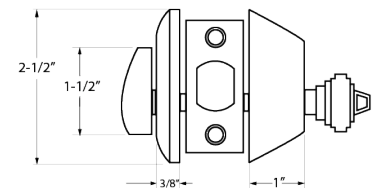


Sturdy, all steel latch  
case and mechanism

2 1/2" diameter tapered cylinder guard  
and metal insert, turns free with any  
removal attempt

Cast iron solid housing

Solid brass 6 pin "C" keyway  
cylinder; Keyed alike



**T220 DEADBOLT**

## SPECIFICATIONS

### PIONEER SL

#### DOOR RANGES

1 3/8" to 1 3/4" thickness doors

#### BACKSET

2 3/4" Standard, 2 3/8" Optional

#### LATCH BOLT

1/2" Throw solid brass, reversible for RH or LH applications. UL Listed

#### LATCH FACEPLATE

2 1/4" x 1 1/8", adjustable for flat or beveled doors 1/8" in 2",  
for 2 3/4" backset. Optional 2 1/4" x 1" for 2 3/8" backset

#### STRIKES

ASA strike standard, "T" and full lip strike available on request

#### EXPOSED TRIM

Wrought brass, bronze or stainless steel, levers are Zinc casting, plated  
to match trim finish

#### ANSI STANDARDS

Meets or exceeds requirements of ANSI / BHMA A156.2  
Series 4000, Grade 2 (FF-H 106C), 400,000 cycles

### T220

#### DOOR RANGES

1 3/8" to 1 3/4" thickness doors

#### BACKSET

Adjustable 2 3/8" or 2 3/4"

#### DEADBOLT FACEPLATE

Latch bolt: Standard 2 1/4" x 1" packed with 1/8" plastic filler to convert  
1" face plate to 1 1/8" wide door preparations

#### TRIM

Wrought Brass or Stainless Steel

#### BORE DIAMETER

1" for latch, 1 1/2" or 2 1/8" for lock housing

#### STRIKE

1 1/8" x 2 3/4" Square Corner

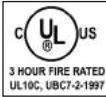
# KNOBSET / DEADBOLT COMBO PACK

**6-PIN "C" KEYWAY CYLINDER, KEYED ALIKE**

**BARRINGTON / T220 (BA00 / T220)**

QUALITY DESIGNED AND ENGINEERED FOR  
COMMERCIAL AND RESIDENTIAL APPLICATIONS

**MEETS**  
*The Buy American Act*



**LIFETIME  
WARRANTY**

For Barrington Series

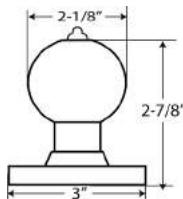
**PACKAGED TOGETHER  
IN THE SAME BOX**

Outside rose, threaded 3" diameter  
large rose adjustable for various door  
thickness

Long spindle hub eliminates  
hub wobble

Deadlatch affords a high degree of security.  
Standard with solid, rustless, pressure cast.  
#300 series anti-magnetic stainless steel or  
brass latch bolt available with UL listed latch  
bolt for 3 hour rated door 4' x 8' or non-UL  
latch bolt

Cylinder knob demountable  
for quick re-keying and replacement:  
reversible for either left or right hand  
door swinging in or out



**BA DESIGN**



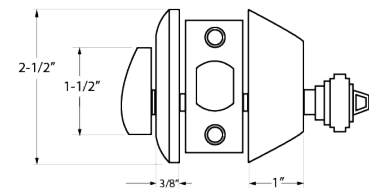
Sturdy, all steel latch  
case and mechanism

2 1/2" diameter tapered cylinder guard  
and metal insert, turns free with any  
removal attempt

Cast iron solid housing

Solid brass 6 pin "C" keyway  
cylinder; Keyed alike

Cylinder precision solid brass. Pick resistant  
6-pin tumbler. Must turn key one-quarter  
to remove and replace cylinder. Can be  
construction keyed and master keyed as  
required



**T220 DEADBOLT**

## SPECIFICATIONS

### BARRINGTON

#### DOOR RANGES

1 3/8" to 1 3/4" thickness doors

#### BACKSET

2 3/4" Standard, 2 3/8" Optional

#### LATCH FACEPLATE

2 1/4" x 1 1/8" for 2 3/4" backset, 2 1/4" x 1" for 2 3/8" backset

#### STRIKES

ANSI strike standard, 4 7/8" x 1 1/4". Optional "T" and full lip strike  
available on request

#### EXPOSED TRIM

Wrought Brass, Bronze or Stainless Steel

#### BORE DIAMETER

1" for latch. 2 1/8" for lock housing

#### ANSI STANDARDS

Meets or exceeds requirements of ANSI / BHMA A156.2  
Series 4000 for Grade 2 (FF-H-106C)

### T220

#### DOOR RANGES

1 3/8" to 1 3/4" thickness doors

#### BACKSET

Adjustable 2 3/8" or 2 3/4"

#### DEADBOLT FACEPLATE

Latch bolt: Standard 2 1/4" x 1" packed with 1/8" plastic filler to convert  
1" face plate to 1 1/8" wide door preparations

#### TRIM

Wrought Brass or Stainless Steel

#### BORE DIAMETER

1" for latch, 1 1/2" or 2 1/8" for lock housing

#### STRIKE

1 1/8" x 2 3/4" Square Corner



# COLUMBUS

QUALITY DESIGNED AND ENGINEERED FOR  
LIGHT COMMERCIAL AND RESIDENTIAL APPLICATIONS

**LIFETIME  
WARRANTY**

Conforms with ANSI A156.2  
Series 4000, Grade 3  
Exceeds 200,000 cycles

Internal mechanism heavy gauge cold rolled steel. All parts are zinc plated and dichromated to assure protection from rust or corrosion. Special lubricant applied for smoother operation.

Threaded inside rose conceals mounting plate and screws

Button push in and turn button function

Knobs cannot slip or pull off. Both kept in position by positive spring catch

Adjustable 2 3/8" - 2 3/4" backset

Latch faceplate standard 2 1/4" x 1"

Deadlatch affords a high degree of security. Standard with solid, rustless, pressure cast. #300 series anti-magnetic stainless steel or brass latch bolt

Guard bolt deadlocks latch bolt automatically

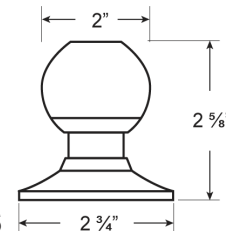
Latch case sturdy all steel mechanism

Cylindrical housing 2 1/8" diameter provides great strength and durability

Outside rose threaded 2 3/4" diameter large rose adjustable for various door thickness

Cylinder knob demountable for quick re-keying and replacement; reversible for either right or left-hand doors swinging in or out

Solid Brass 5-pin "C" keyway. Can be construction keyed and master keyed as required



**7500 SERIES**

## SPECIFICATIONS

### DOOR RANGES

Adjustable for 1 3/8" to 1 3/4" door thickness.

### BACKSET

Standard 2 3/8" and 2 3/4" adjustable.

### LATCH FACEPLATE

2 1/4" x 1" standard.

### STRIKES

T strike standard. Optional ANSI or full lip strike available.

**KEYING:** 5-pin "C" keyway cylinder, 2 keys per lock.

**BORE DIAMETER:** 1" for latch. 2 1/8" for lock housing.

### ADDITIONAL KEYWAYS

6 pin solid brass "C" keyway standard. Schlage E, Schlage C-K, Russwin D1-2-3-4, Corbin 59 / 60, Corbin-Russwin L4, Sargent LA-LB-LC, Falcon / Weiser E, Arrow A, Yale 8, Yale GA and Kwikset. Can also accept Medeco, Assa, Kaba and Cal-Royal (HSK) High Security Cylinders.

### EXPOSED TRIM

Wrought brass, bronze or stainless steel.

### ANSI STANDARDS

Meets or exceeds requirements of ANSI / BHMA A156.2 Series 4000 for Grade 3 (FF-H-106C).

# COLUMBUS SERIES FINISHES AND FUNCTIONS



FINISHES AVAILABLE		
BHMA SYMBOL	US CODE	DESCRIPTION
605	US3	Polished Brass
606	US4	Satin Brass
609	US5	Antique Brass
612	US10	Satin Bronze
613	US10B	Oil Rubbed Bronze
619	US15	Satin Nickel
625	US26	Polished Chrome
626	US26D	Satin Chrome
630	US32D	Satin Stainless Steel

Refer to price list for stock finishes and functions



**LIFETIME  
WARRANTY**

**7500**  
**ANSI F109**  
FED #161A / 160A



## ENTRANCE / OFFICE LOCK

Turn / Push button locking. Pushing and turning button locks outside knob requiring use of key until button is manually unlocked. Pushing button locks outside knob until unlocked with key or inside knob is turned.

**7503**  
**ANSI F84**



## CLASSROOM

Deadlocking latch bolt operated by knob from either side except when outside knob is locked from outside by key. When outside knob is locked, latch bolt is operated by turning inside knob.

**7505**  
**ANSI F86**



## STOREROOM

Deadlocking latch bolt operated by key in outside knob or by rotating inside knob. Outside knob is always fixed.

**7520**  
**ANSI F76**  
FED # 161L / 160L



## PRIVACY LOCK

Latch bolt operated by knob from either side. Outside knob is locked by push button inside and unlocked by emergency release outside. Turning inside knob or closing door releases push button.

**7530**  
**ANSI F75**  
FED # 161N / 160N



## PASSAGE SET

Latch bolt operated by knob from either side at all times.

**7540**



## DUMMY LEVER

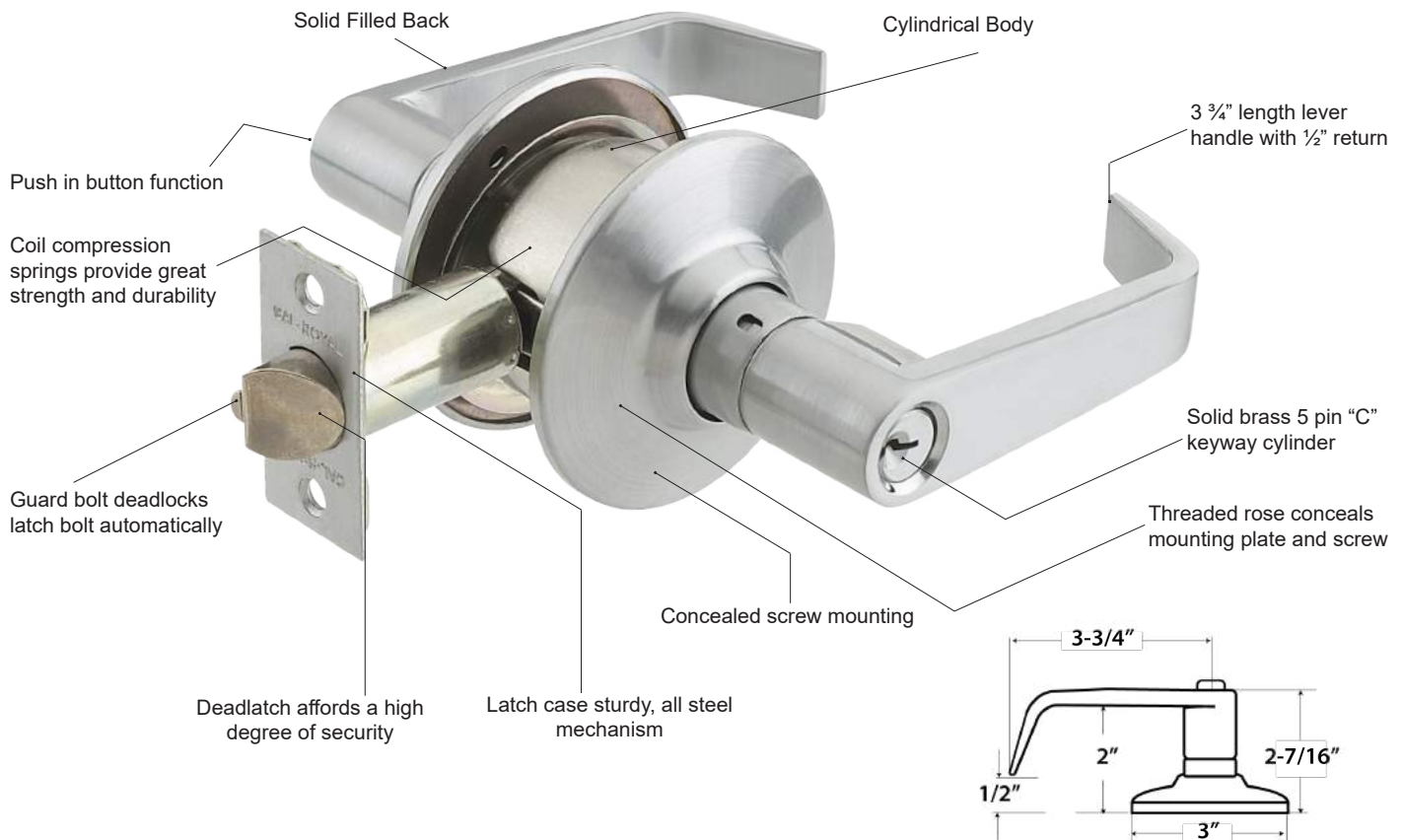
Single dummy trim for one side of door. Pull only.

**OTHER FUNCTIONS NOT LISTED ARE AVAILABLE UPON REQUEST**

# EPIC

FOR LIGHT COMMERCIAL AND RESIDENTIAL APPLICATIONS  
CYLINDRICAL LEVERSET  
MEETS ANSI STANDARD A156.2, GRADE 3

 Meets ADA requirements  
Specially designed for  
Barrier Free Application  
Conforms with ANSI / BHMA A156.2,  
Series 4000, Grade 3 Requirements  
Exceeds 200,000 Cycles



## SPECIFICATIONS

### APPLICATIONS

For residential or light commercial applications.

### DOOR RANGES

1 3/8" to 2" thickness doors.

### BACKSET

2 3/8" or 2 3/4" backset.

### LATCH BOLT

Diecast Zinc, Brass, Chrome or Brass plated 7/16" (11mm) Throw Latch Bolt.

### LATCH FACEPLATE

2 1/4" x 1 1/8" for 2 3/4" backset.  
2 1/4" x 1" for 2 3/8" backset.

### CYLINDER & KEYWAYS

5 pin solid brass Schlage "C" keyway standard.

### EXPOSED TRIM

Wrought brass, bronze or stainless steel, levers are zinc casting, plated to match trim finish.

### STRIKES

ASA Strike Standard for Entrance function (**Commercial**);  
T-Strike Standard for Privacy and Passage functions (**Commercial**).

Full Lip Strike Round Corner Standard for Privacy and Passage functions (**Residential**).

### ANSI STANDARDS

Meets or exceeds requirements of ANSI / BHMA A156.2  
Series 4000, Grade 3.

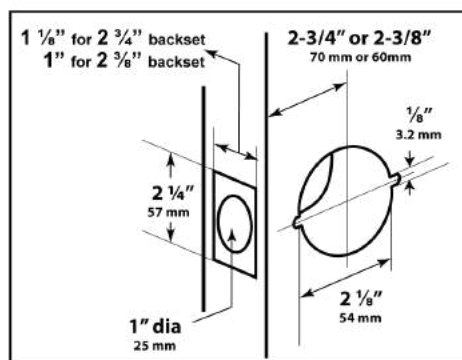
### LATCH & STRIKE SCREWS

8-32 x 1" FPH Dual Purpose.

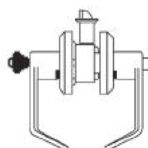
FINISHES AVAILABLE		
BHMA SYMBOL	US CODE	DESCRIPTION
605	US3	Polished Brass
606	US4	Satin Brass
609	US5	Antique Brass
612	US10	Satin Bronze
613	US10B	Oil Rubbed Bronze
619	US15	Satin Nickel
625	US26	Polished Chrome
626	US26D	Satin Chrome

Refer to price list for stock finishes and functions

## DOOR PREPARATION



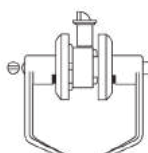
### 800 ANSI: F82



#### ENTRANCE / OFFICE LOCK

Turn / Push button locking. Pushing and turning button locks outside lever requiring use of key until button is manually unlocked. Pushing button locks outside lever until unlocked with key or inside lever is turned.

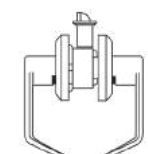
### 802 ANSI: F76



#### PRIVACY LOCK

Latch bolt operated by lever from either side. Outside lever is locked by push button inside and unlocked by emergency release outside. Turning inside lever or closing door releases push button.

### 803 ANSI: F75



#### PASSAGE SET

Latch bolt operated by lever from either side at all times.

### 805



#### DUMMY LEVER

Single dummy trim for one side of door. Pull only.

OTHER FUNCTIONS NOT LISTED ARE AVAILABLE UPON REQUEST

**Entrance function (Commercial leverset) packaging includes:**

- **ASA Strike**
- 2 3/4" backset; 2 1/4" x 1 1/8" square corner faceplate

**Privacy and Passage functions (Commercial leverset) packaging includes:**

- **T-Strike**
- 2 3/4" backset; 2 1/4" x 1 1/8" square corner faceplate

**\*RES802 and RES803 (Residential leverset) packaging includes:**

- **Full lip strike**, round corner
- 2 3/8" backset;
- 2 1/4" x 1" round corner faceplate

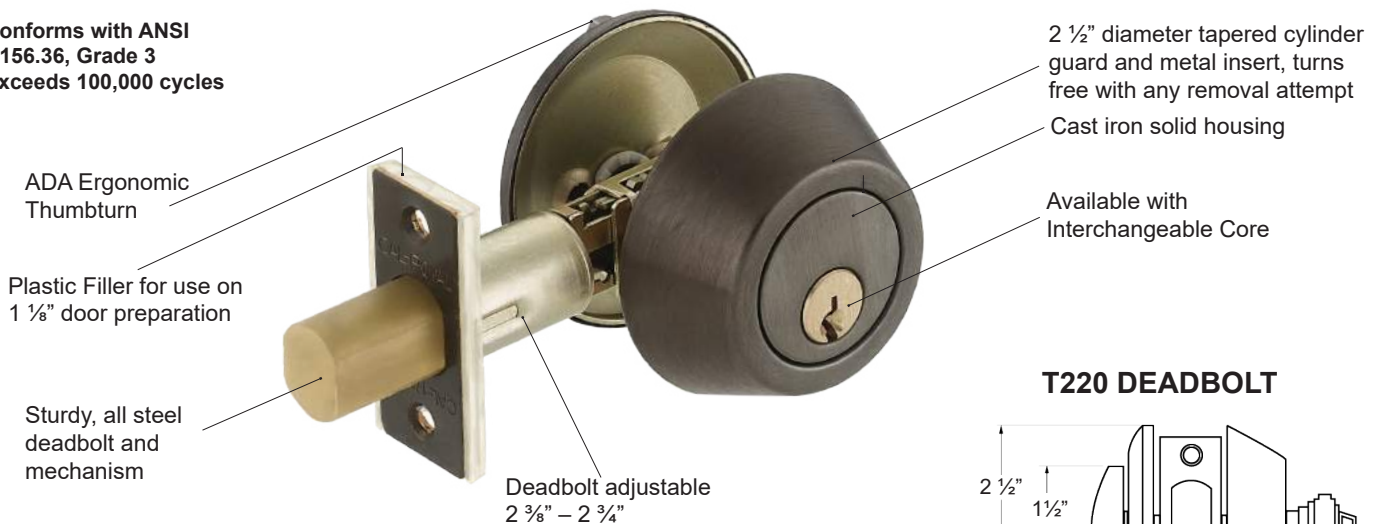


- Available with Interchangeable Core for Best, Falcon & Arrow
- Available with Interchangeable Core for Schlage Full Size Format OEM Cylinders

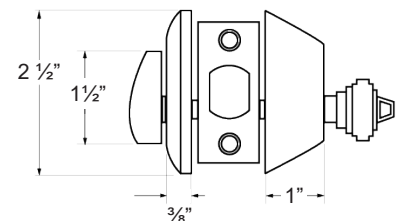
## T220 STANDARD DUTY DEADBOLTS GL220 STANDARD DUTY GATE LATCHES FOR LIGHT COMMERCIAL AND RESIDENTIAL APPLICATIONS

**MEETS**  
*The Buy American Act*

Conforms with ANSI  
A156.36, Grade 3  
Exceeds 100,000 cycles



### T220 DEADBOLT



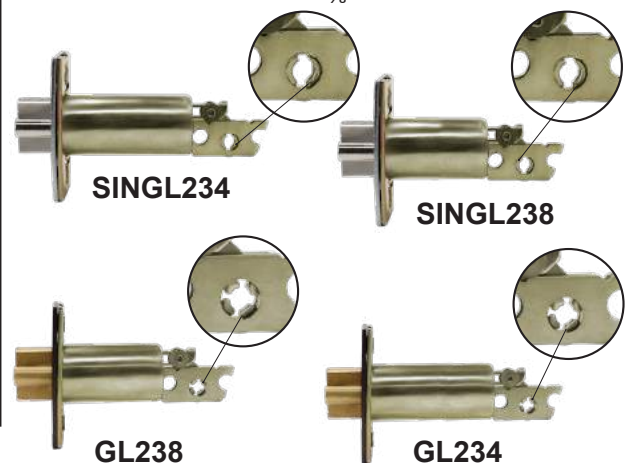
### GL330 GATE LATCH DOUBLE CYLINDER



### GL220 GATE LATCH SINGLE CYLINDER



**SINGL238** - 2 3/8" backset gate latch and for single cylinder deadbolt  
**SINGL234** - 2 3/4" backset gate latch and for single cylinder deadbolt  
**GL238** - 2 3/8" backset gate latch and for double cylinder deadbolt  
**GL234** - 2 3/4" backset gate latch and for double cylinder deadbolt



## SPECIFICATIONS

### TRIM

Wrought Brass or Stainless Steel.

### DOOR RANGES

Adjustable 1 3/8" (35mm) to 1 3/4" (45mm) door thickness.

### BACKSET

Adjustable 2 3/8" or 2 3/4" for T220 and T330.  
For GL220 and GL330 specify backset.

### DEADBOLT FACEPLATE

Latch bolt: Standard 2 1/4" x 1" packed with 1 1/8" plastic filler to convert 1" face plate to 1 1/8" wide door preparations.

### BORE DIAMETER

1" for latch, 1 1/2" or 2 1/8" for lock housing.

### STRIKE

1 1/8" X 2 3/4" square corner.

### ● INTERCHANGEABLE CORE

Interchangeable Core locks will accept compatible 6 or 7 pin cores with BEST, FALCON and ARROW.



Interchangeable Core locks will also accept SCHLAGE full size format OEM interchangeable core cylinders and compatible Schlage 6-pin Interchangeable Core. Interchangeable Core offered by Cal-Royal Products, Inc.

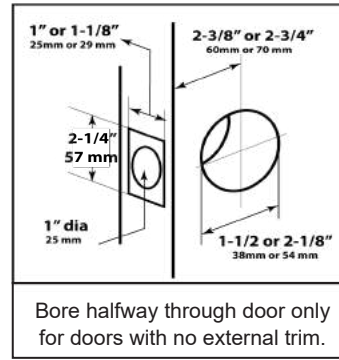
# T220 / GL220 SERIES FINISHES AND FUNCTIONS



FINISHES AVAILABLE		
BHMA SYMBOL	US CODE	DESCRIPTION
622	US1	Flat Black Coated
605	US3	Polished Brass
606	US4	Satin Brass
609	US5	Antique Brass
613E	US10BE	Dark Oxidized Satin Bronze, Equivalent
619	US15	Satin Nickel
625	US26	Polished Chrome
626	US26D	Satin Chrome

Refer to price list for stock finishes and functions

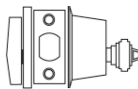
## DOOR PREPARATION



**MEETS**  
The Buy American Act

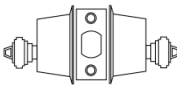
Bore halfway through door only for doors with no external trim.

**T220**  
ICT220  
SCICT220  
ANSI E0153



**Single Cylinder Deadbolt**  
Dead locking latch bolt retracted by key from outside or by thumb turn on inside. Adjustable 2 3/8" or 2 3/4" backset.

**T330**  
ICT330  
SCICT330  
ANSI E0143



**Double Cylinder Deadbolt**  
Dead locking deadbolt retracted by key from either side. Adjustable 2 3/8" or 2 3/4" backset.

**ID58**



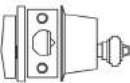
**One Sided Deadbolt**  
Deadbolt thrown or retracted by turn unit only. No outside trim. Bore halfway through door for installation visible from one side of door only.

**ID60**



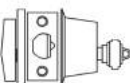
**One Sided Deadbolt**  
Deadbolt thrown or retracted by turn unit only. Blank plate is on external trim to be used on bore holes 1 5/8" and 2 1/8" wide.

**GL220**  
ICGL220  
SCICGL220  
ANSI E0153



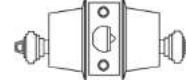
**Single Cylinder Gate Latch**  
Dead locking latch bolt retracted by key from outside or by thumb turn on inside. Otherwise always locked (2 3/8" backset)

**GL220234**  
ICGL220234  
SCICGL220234  
ANSI E0142



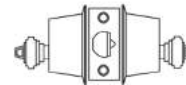
**Single Cylinder Gate Latch**  
Dead locking latch bolt retracted by key from outside or by thumb turn on inside. Otherwise always locked (2 3/4" backset)

**GL330**  
ICGL330  
SCICGL330  
ANSI E0143



**Double Cylinder Gate Latch**  
Dead locking latch bolt retracted by key from either side. Otherwise, always locked. (2 3/8" backset)

**GL330234**  
ICGL330234  
SCICGL330234  
ANSI E0142



**Double Cylinder Gate Latch**  
Dead locking latch bolt retracted by key from either side. Otherwise, always locked. (2 3/4" backset)

**GL58**



**One Sided Latch Bolt**  
Dead latch retracted by thumb turn, no outside trim. Visible from one side of door only. Otherwise always locked.

**GL60**



**One Sided Latch Bolt**  
Dead latch retracted by thumb turn unit. Blank plate on external trim to be used on bore holes 1 5/8" and 2 1/8" diameter. Otherwise, always locked.

**GL58234**

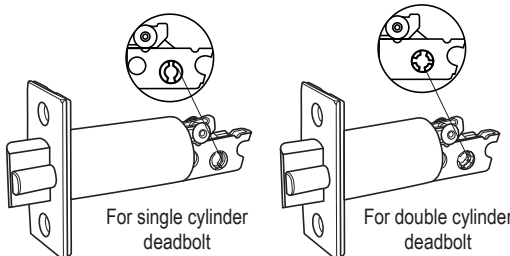


**One Sided Latch Bolt**  
Dead latch retracted by thumb turn, no outside trim. Visible from one side of door only. Otherwise always locked.

**GL60234**



**One Sided Latch Bolt**  
Dead latch retracted by turn unit. Blank plate on external trim to be used on bore holes 1 5/8" and 2 1/8" diameter. Otherwise, always locked.



## ADDITIONAL PARTS

SINGL238	2 3/8" backset gate latch (1 1/8" x 2 1/4") for single cylinder deadbolt
SINGL234	2 3/4" backset gate latch (1 1/8" x 2 1/4") for single cylinder deadbolt
GL238	2 3/8" backset gate latch (1 1/8" x 2 1/4") for double cylinder deadbolt
GL234	2 3/4" backset gate latch (1 1/8" x 2 1/4") for double cylinder deadbolt

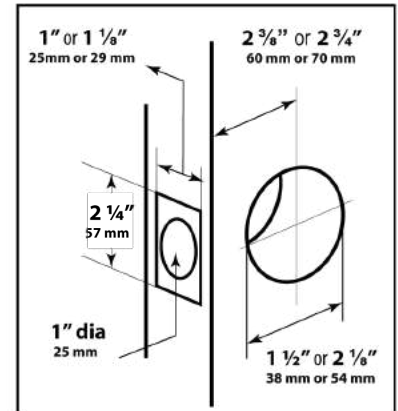
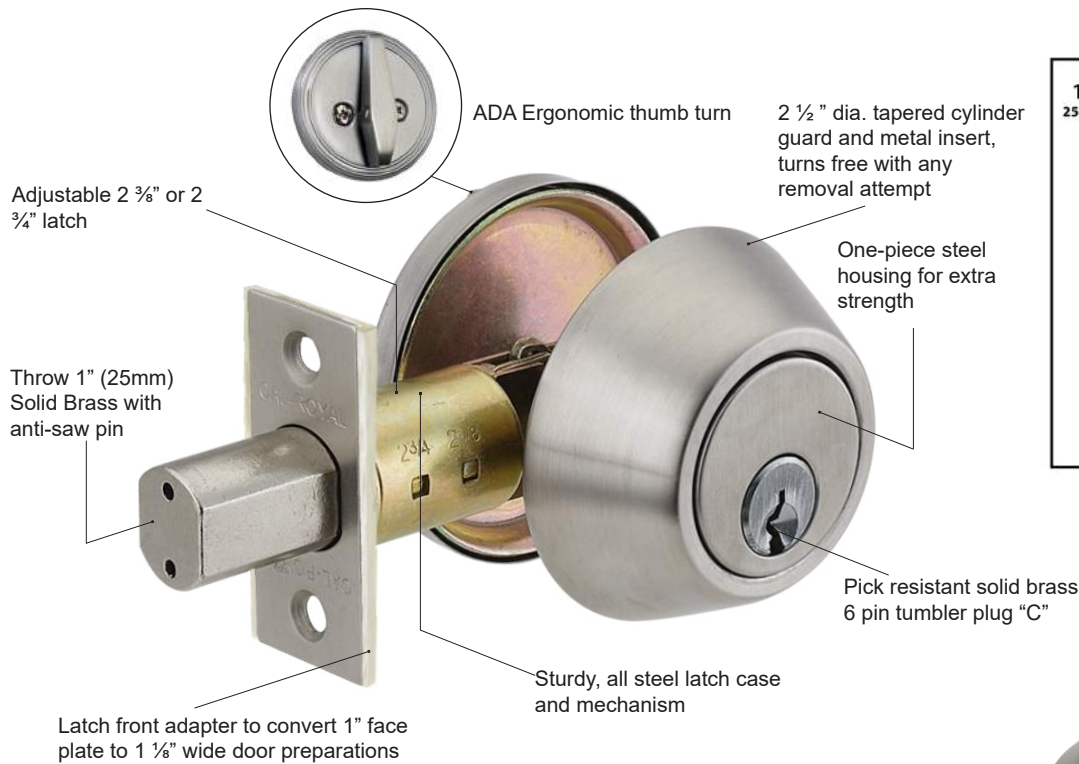
● "IC" Indicates function available with BEST, FALCON & ARROW Interchangeable Core.  
● "SCIC" Indicates function available with SCHLAGE full size format Interchangeable Core.

**OTHER FUNCTIONS NOT LISTED ARE AVAILABLE UPON REQUEST**  
**HOLD BACK FEATURE ON DEADBOLT WITH GATE LATCH NOT AVAILABLE**

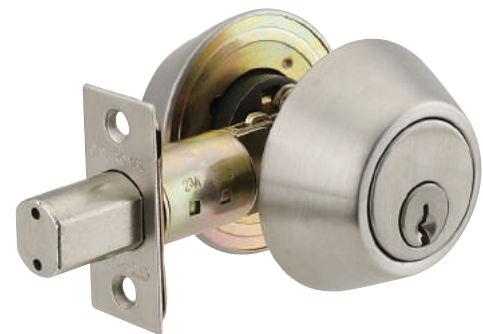
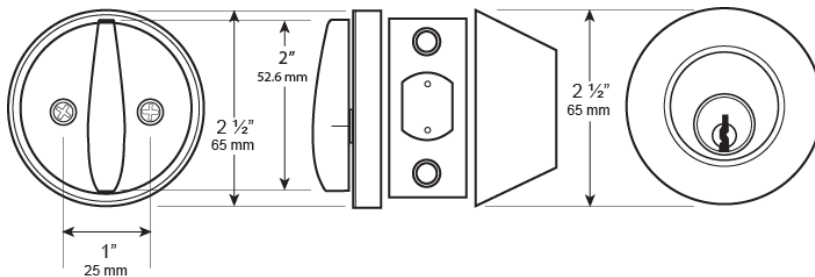
## LSD STANDARD DUTY DEADBOLTS

FOR LIGHT COMMERCIAL AND RESIDENTIAL APPLICATIONS

Conforms with ANSI A156.36  
Grade 3, Exceeds 100,000 cycles



### LSD01 SINGLE CYLINDER



### LSDD88 DOUBLE CYLINDER

## SPECIFICATIONS

### TRIM

Wrought Brass or Stainless Steel.

### BACKSET

Adjustable 2 3/8" or 2 3/4".

### DEADBOLT FACEPLATE

Standard 2 1/4" x 1". Packed with 1/8" plastic filler to convert 1" face plate to 1 1/8" wide door preparations.

### DOOR RANGES

Adjustable 1 3/8" (35mm) to 1 3/4" (45mm) door thickness.

### BORE DIAMETER

1" for latch, 1 1/2" or 2 1/8" for lock housing.

### KEYWAYS

6 pin solid brass "C" keyway standard. Optional Schlage E, Schlage C-K, Russwin D1-2-3-4, Corbin 59 / 60, Corbin-Russwin L4, Sargent LA-LB-LC, Falcon / Weiser E, Arrow A, Yale 8, Yale GA and Kwikset. Can also accept Medeco, Assa, Kaba and Cal-Royal (HSK) High Security Cylinders.

### STRIKE

1 1/8" x 2 3/4" square corner.

### FINISHES

LSD SERIES is available in stock in US32D, 26, 26D, 10B, US3 and US15 finishes. Refer to price list for other stock finishes and functions.



## IND84 INDICATOR DEADBOLTS

### FOR COMMERCIAL AND RESIDENTIAL APPLICATIONS

Conforms with ANSI  
A156.36, Grade 3  
Exceeds 100,000 cycles

ADA Ergonomic thumb turn

Latch front adapter to  
convert 1" face plate to 1 1/8"  
wide door preparations

Throw 1" (25mm)  
Solid Brass with  
anti-saw pin

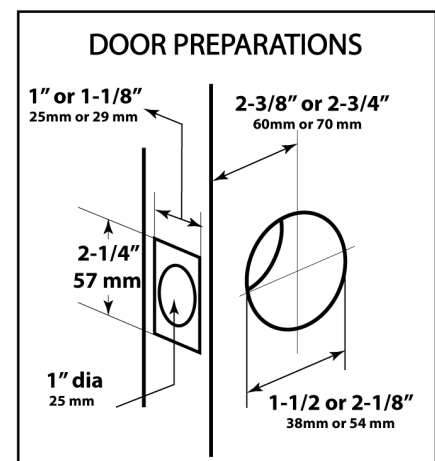
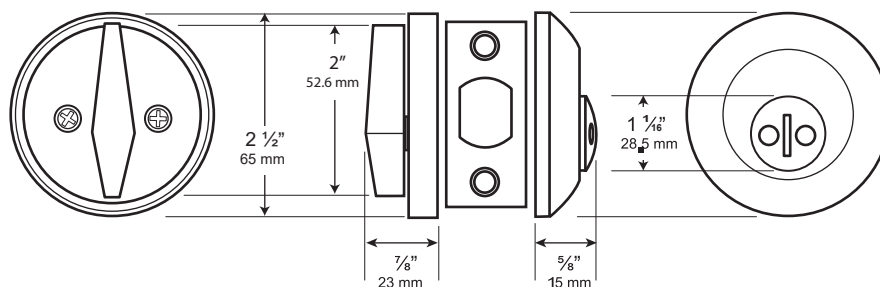
Sturdy, all steel latch case  
and mechanism

2 1/2" diameter Brass Plate

Red (Locked) and  
Green (Unlocked)  
Indicator

Coin edge slot for  
emergency opening

Deadbolt adjustable 2 3/8" - 2 3/4"



### SPECIFICATIONS

#### TRIM

Wrought Brass or Stainless Steel.

#### DOOR RANGES

Adjustable 1 3/8" (35mm) to 1 3/4" (45mm) door thickness.

#### BACKSET

Adjustable 2 3/8" or 2 3/4".

#### DEADBOLT FACEPLATE

Standard 2 1/4" x 1" packed with 1/8" plastic filler to convert 1" face plate to 1 1/8" wide door preparations.

#### BORE DIAMETER

1" for latch, 1 1/2" or 2 1/8" for lock housing.

#### STRIKE

1 1/8" x 2 3/4" square corner.

#### FINISHES

IND84 is available in stock in US26D, 3, 4 and 10B finishes. Refer to price list for other stock finishes and functions.



## INDLEV-20 SERIES COMMERCIAL GRADE PRIVACY INDICATOR LEVERSET



Red (**IN USE**) and  
Green (**VACANT**)  
Indicator

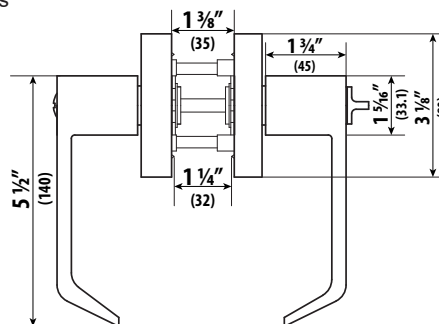


Inside  
Thumbturn

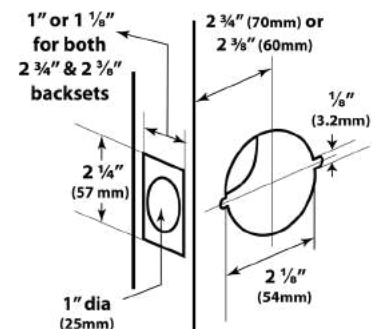
both 2  $\frac{3}{8}$ " Backset and  
2  $\frac{3}{4}$ " Backset packed standard

Packed with plastic filler for  
1  $\frac{1}{8}$ " wide door preparations

Emergency Slot available  
for emergency opening



### DOOR PREPARATIONS



### SPECIFICATIONS

#### TRIM

Stainless Steel Rose Cover and Aluminum Lever.

#### DOOR RANGES

Adjustable 1  $\frac{3}{8}$ " (35mm) to 1  $\frac{3}{4}$ " (45mm) door thickness.

#### BACKSET

Packed Standard with both 2  $\frac{3}{8}$ " and 2  $\frac{3}{4}$ " Backset

#### LATCH FACEPLATE

Standard 2  $\frac{1}{4}$ " x 1" packed with 1  $\frac{1}{8}$ " plastic filler to convert 1" face plate to 1  $\frac{1}{8}$ " wide door preparations.

#### BORE DIAMETER

1" for latch, 2  $\frac{1}{8}$ " for lock housing.

#### STRIKE

ASA478 ANSI Strike Standard.

#### FINISH

INDLEV-20 is available in stock in US26D, US26, US19, US10B, and US3 finishes.

#### EMERGENCY SLOT

It has an emergency slot on the outside trim to unlock the door in case of emergency.

#### HANDING

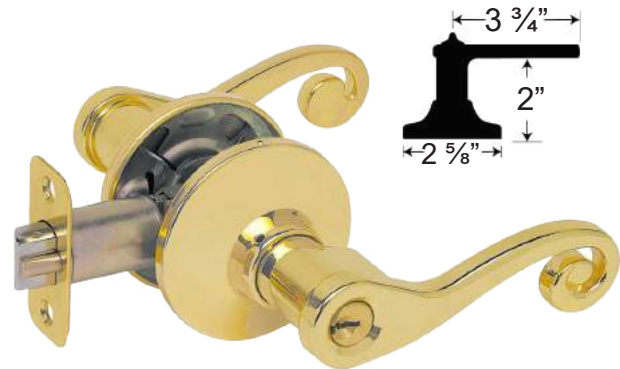
Reversible for left and right door application.

# ASHLEY SERIES TUBULAR LOCKSETS / LEVERSETS



**LEPRE00 (HANDED)  
SPECIFY**

## **PREMIER SERIES**

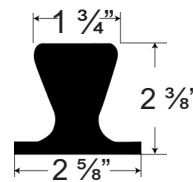


**LESIG00 (HANDED)  
SPECIFY**

## **SIGNATURE SERIES**



**RIZ00**



## **RITZ SERIES**

### **FEATURES & SPECIFICATIONS**

- ◆ Grade 3, ANSI Standard A156.2
- ◆ Brass Trim and Knob. Levers and Handles are Brass Plated
- ◆ Kwikset Keyway. Re-keyable for Master and Construction Keying
- ◆ Weiser and Keyway Available on Special Factory Order Only
- ◆ For Wood and Metal Doors, Fits 1 3/8" to 1 3/4" Thick Doors
- ◆ 2 3/8" or 2 3/4" Adjustable Backset, Size 1" x 2 1/4" Round Corner Standard
- ◆ Square Corner Option and Drive-in Adjustable Backset is also Available
- ◆ Round Corner Full Lip Strike is Standard. Other Strike Options are also Available
- ◆ Keyed Entry Comes with Lever / Lever for Exterior and Interior
- ◆ Easy Installation
- ◆ When ordering prefix Series Design to function number:  
(ex: **RIZ00 Entry**).

### **FUNCTIONS**

- 00 - Entry
- 20 - Privacy (Bed & Bath)
- 30 - Passage (Hall & Closet)
- 40 - Dummy (Active Dummy, not rigid)
- 05 - Storeroom (Vestibule)

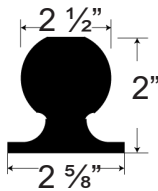
**EXCEL LIFETIME  
ANTI-TARNISH  
FINISH AVAILABLE**

### **FINISHES**

- ◆ US3 - Polished Brass
- ◆ US5 - Antique Brass
- ◆ US15 - Satin Nickel
- ◆ US15A - Antique Nickel
- ◆ US10B - Oil Rubbed Bronze
- ◆ US26D - Satin Chrome
- ◆ US26 - Polished Chrome
- ◆ Other finishes available upon request based on quantity with factory lead time.
- ◆ **Refer to pricelist for stock functions and finishes**
- ◆ For **EXCEL LIFETIME FINISH** on polished brass, prefix "**LIF**" before part #, with factory lead time

**5 Year Finish Warranty  
25 Year Mechanical Warranty**

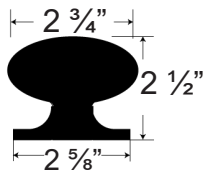
# CHELSIE SERIES TUBULAR LOCKSETS



REN-00



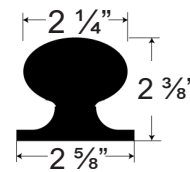
RENO DESIGN  
"REN" SERIES



ASP-00



ASPEN DESIGN  
"ASP" SERIES



BER-00



BERMUDA DESIGN  
"BER" SERIES

## FEATURES & SPECIFICATIONS

- ◆ Grade 3, ANSI Standard A156.2
- ◆ Brass Trim. Levers and Handles are Brass Plated
- ◆ Kwikset Keyway. Re-keyable for Master and Construction Keying
- ◆ Weiser and Schlage "C" Keyway Available on Special Factory Order
- ◆ Optional 3 Hour Fire Rated UL Latch on Entrance and Passage functions only (**ULENTK-4 for Entrance, and ULPASK-6 for Passage**)
- ◆ For Wood and Metal Doors
- ◆ Fits 1 3/8" to 1 3/4" Thick Doors
- ◆ Reversible for Right and Left Handed Doors
- ◆ 2 3/8" or 2 3/4" Adjustable Backset, Size 1" x 2 1/4" Round Corner Standard
- ◆ Square Corner Option is also Available
- ◆ Drive-in Adjustable Backset is also Available
- ◆ Round Corner Full Lip Strike is Standard
- ◆ Other Strike Options are also Available
- ◆ Easy Installation
- ◆ When ordering prefix Series Design to function number:  
(ex: **REN-00 Entry**).

## FUNCTIONS

- 00 - Entry
- 20 - Privacy (Bed & Bath)
- 30 - Passage (Hall & Closet)
- 40 - Dummy (Active Dummy, not rigid)
- 05 - Storeroom (Vestibule)



## FINISHES

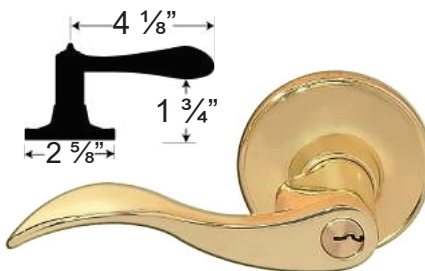
- ◆ US3 - Polished Brass
- ◆ US5 - Antique Brass
- ◆ US15 - Satin Nickel
- ◆ US15A - Antique Nickel
- ◆ US10B - Oil Rubbed Bronze
- ◆ US26D - Satin Chrome
- ◆ US26 - Polished Chrome
- ◆ Other finishes available upon request based on quantity with factory lead time.
- ◆ **Refer to pricelist for stock functions and finishes**
- ◆ For **EXCEL LIFETIME FINISH** on polished brass, prefix "**LIF**" before part #, with factory lead time

5 Year Finish Warranty  
25 Year Mechanical Warranty

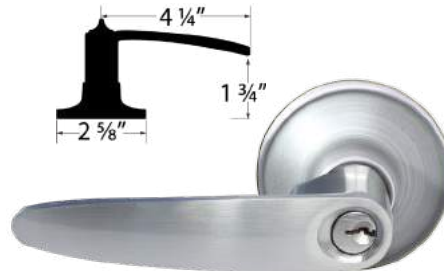
# CHELSIE SERIES LEVERSETS



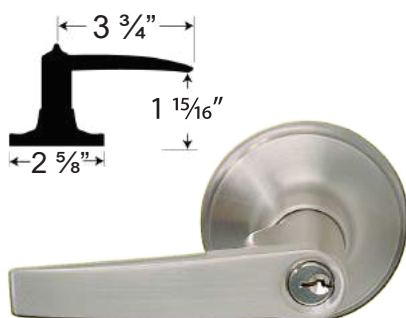
**SOPHIA "SOP" SERIES  
(NON-HANDED)**



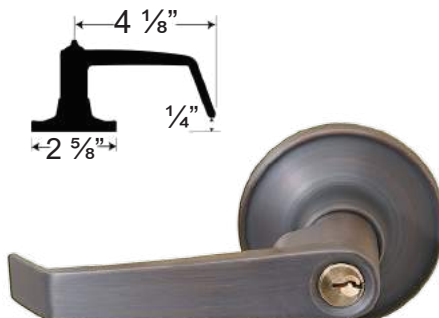
**MAYFAIR "MAY" SERIES  
(HANDED)**



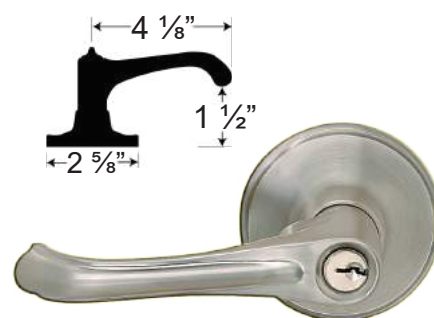
**KOB "KOB" SERIES  
(NON-HANDED)**



**LENOX "LEN" SERIES  
(NON-HANDED)**



**BRISTOL "BRI" SERIES  
(NON-HANDED)**



**AUSTIN "AUS" SERIES  
(NON-HANDED)**

## FEATURES & SPECIFICATIONS

- ◆ Grade 3, ANSI Standard A156.2
- ◆ Brass Trim. Levers are Brass Plated
- ◆ Kwikset Keyway. Re-keyable for Master and Construction Keying
- ◆ Weiser and Schlage "C" Keyway Available on Special Factory Order
- ◆ For Wood and Metal Doors, Fits 1 3/8" to 1 3/4" Thick Doors
- ◆ Optional 3 Hour Fire Rated UL Latch on Entrance and Passage functions only (**ULENTL-5 for Entrance, and ULPASL-7 for Passage**)
- ◆ 2 3/8" or 2 3/4" Adjustable Backset, Size 1" x 2 1/4" Round Corner Standard
- ◆ Square Corner Option and Drive-in Adjustable Backset is also Available
- ◆ Round Corner Full Lip Strike is Standard. Other Strike Options are also Available
- ◆ Keyed Entry Comes with Lever / Lever for Exterior and Interior
- ◆ 1" Bore Diameter for Latch, 2 1/8" Diameter for Lock Housing
- ◆ Easy Installation
- ◆ When ordering prefix Series Design to function number:  
(ex: **LEN-00 Entry**).

## FUNCTIONS

- 00 - Entry
- 20 - Privacy (Bed & Bath)
- 30 - Passage (Hall & Closet)
- 40 - Dummy (Active Dummy, not rigid)
- 05 - Storeroom (Vestibule)

**EXCEL LIFETIME  
ANTI-TARNISH  
FINISH AVAILABLE**

## FINISHES

- ◆ US3 - Polished Brass
- ◆ US5 - Antique Brass
- ◆ US15 - Satin Nickel
- ◆ US15A - Antique Nickel
- ◆ US10B - Oil Rubbed Bronze
- ◆ US26D - Satin Chrome
- ◆ US26 - Polished Chrome
- ◆ Other finishes available upon request based on quantity with factory lead time.
- ◆ **Refer to pricelist for stock finishes**
- ◆ For **EXCEL LIFETIME FINISH** on polished brass, prefix "**LIF**" before part #, with factory lead time

**5 Year Finish Warranty  
25 Year Mechanical Warranty**



# CHELSIE SERIES HANDLESETS



**MERIDIAN DESIGN  
"MER" SERIES**



**BAYBRIDGE DESIGN  
"BAB" SERIES**



**SAVANNAH DESIGN  
"SAV" SERIES**



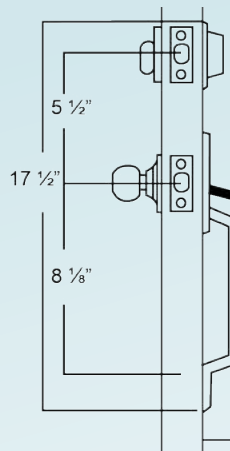
**DEERFIELD DESIGN  
"DEE" SERIES**



**CAMBRIDGE DESIGN  
"CAM" SERIES**

## FEATURES & SPECIFICATIONS

- ◆ Grade 3, ANSI Standard A156.2, Light Duty Handlesets
- ◆ 5 Year Finish Warranty., 25 Year Mechanical Warranty
- ◆ All Metal Body and Parts
- ◆ All Solid Brass Forged Body
- ◆ Solid Filled Handle Grip
- ◆ Non-Locking Knob or Lever Operates Latch from Interior
- ◆ Thumb Piece Operates Handleset Latch from Exterior
- ◆ Interior Leverset see Chelsie Series
- ◆ Strikes and Latchbolts Same as Knob & Leversets
- ◆ Reversible for Right and Left Handed Doors Except Mayfair
- ◆ "KW" 5-Pin Kwikset Keyway Standard
- ◆ Re-keyable for Master and Construction Keying
- ◆ Weiser and Schlage "C" Keyway Available on Special Factory Request
- ◆ For Wood and Metal Doors
- ◆ 2 3/8" or 2 3/4" Backset, Size 1" x 2 1/4" Round Corner Standard. Square Corner and Drive-in Adjustable Backset Option also Available on Special Factory Order
- ◆ Round Corner Full Lip Strike: 1 3/4" x 2 1/4". Optional T-strike
- ◆ Round Corner Deadbolt Strike: 1" x 2 1/4"
- ◆ 1" Bore Diameter for Latch, 2 1/8" Diameter for Lock Housing
- ◆ Architectural Finishes



## FINISHES

- ◆ US3 - Polished Brass
- ◆ US5 - Antique Brass
- ◆ US15 - Satin Nickel
- ◆ US15A - Antique Nickel
- ◆ US10B - Oil Rubbed Bronze
- ◆ US26D - Satin Chrome
- ◆ US26 - Polished Chrome
- ◆ PVD - Physical Vapor Deposition Coating

◆ Refer to pricelist for stock functions and finishes

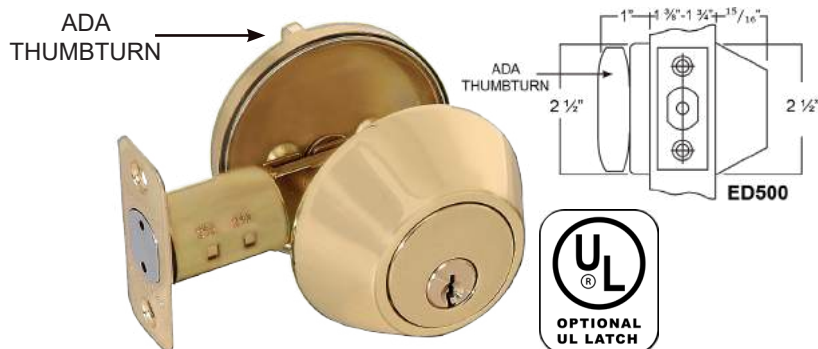
## FUNCTIONS

- 00 - Handle with Single Cylinder Deadbolt
- 40 - Complete Dummy Trim

**5 Year Finish Warranty  
25 Year Mechanical Warranty**

**EXCEL LIFETIME  
ANTI-TARNISH  
FINISH AVAILABLE**

# CHELSIE SERIES DEADBOLTS



**ED-500**  
**SINGLE CYLINDER DEADBOLT**



**EDD-400**  
**DOUBLE CYLINDER DEADBOLT**



**ID-701**  
**ONE SIDED BOLT**



**ID-801**  
**ONE SIDED BOLT WITH COVER**

## FEATURES & SPECIFICATIONS

- ◆ Grade 3, ANSI Standard A156.36
- ◆ Kwikset Keyway. Re-keyable for Master and Construction Keying
- ◆ Weiser and Schlage "C" Keyway Available on Special Factory Order Only
- ◆ Optional 3 Hour Fire Rated UL Deadbolt Latch on Part # **ED-500** only (**ULDB-8**)
- ◆ For Wood and Metal Doors, Fits 1  $\frac{3}{8}$ " to 1  $\frac{3}{4}$ " Thick Doors
- ◆ Reversible for Right and Left Handed Doors
- ◆ 2  $\frac{3}{8}$ " or 2  $\frac{3}{4}$ " Adjustable Backset, Size 1" x 2  $\frac{1}{4}$ " Round Corner Standard Square Corner and Drive-in Adjustable Backset is also Available
- ◆ All Metal Body and Cylinder Construction
- ◆ All Exterior Parts are Brass
- ◆ Full 1" Throw Deadbolt and Hardened Steel Pin to Prevent Saw Cutting
- ◆ 1" x 2  $\frac{1}{4}$ " Strike, Round Corner and Full Lip Strike Round Corner Standard. Square Corner Option also Available. Optional 1  $\frac{1}{4}$ " x 3  $\frac{5}{8}$ " Security Strike with 3" Screws also Available.
- ◆ Easy Installation

## FUNCTIONS

- ED-500 - Single Cylinder Deadbolt
- EDD-400 - Double Cylinder Deadbolt
- ID-701 - One Sided Deadbolt
- ID-801 - One Sided Deadbolt with Cover Plate

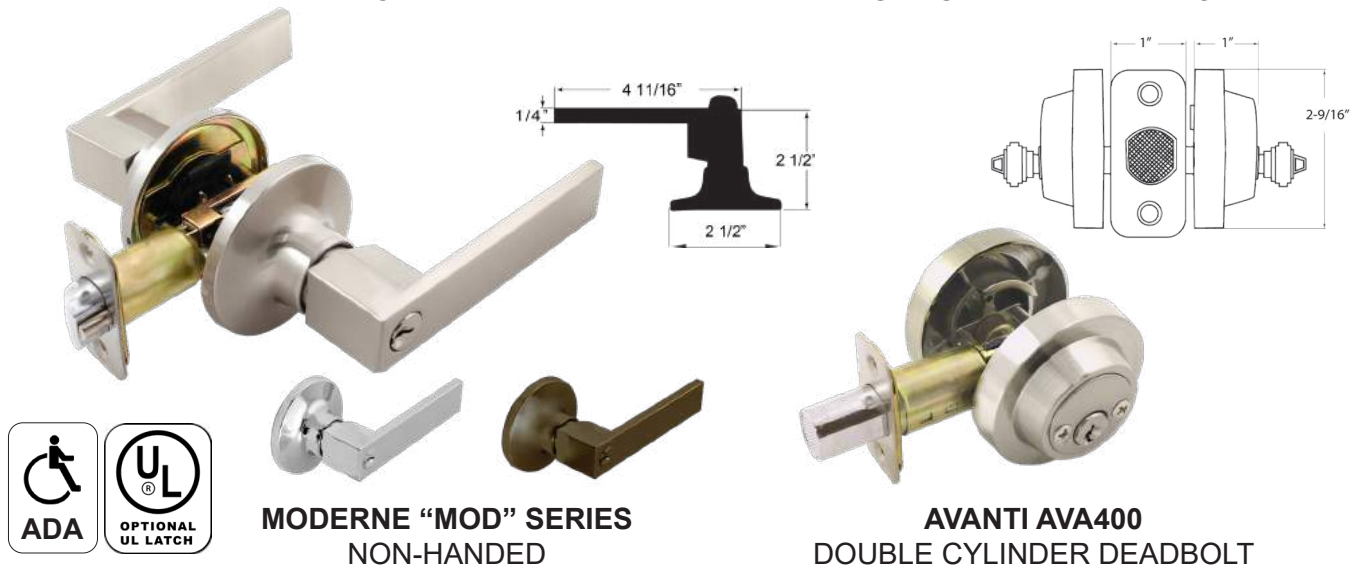
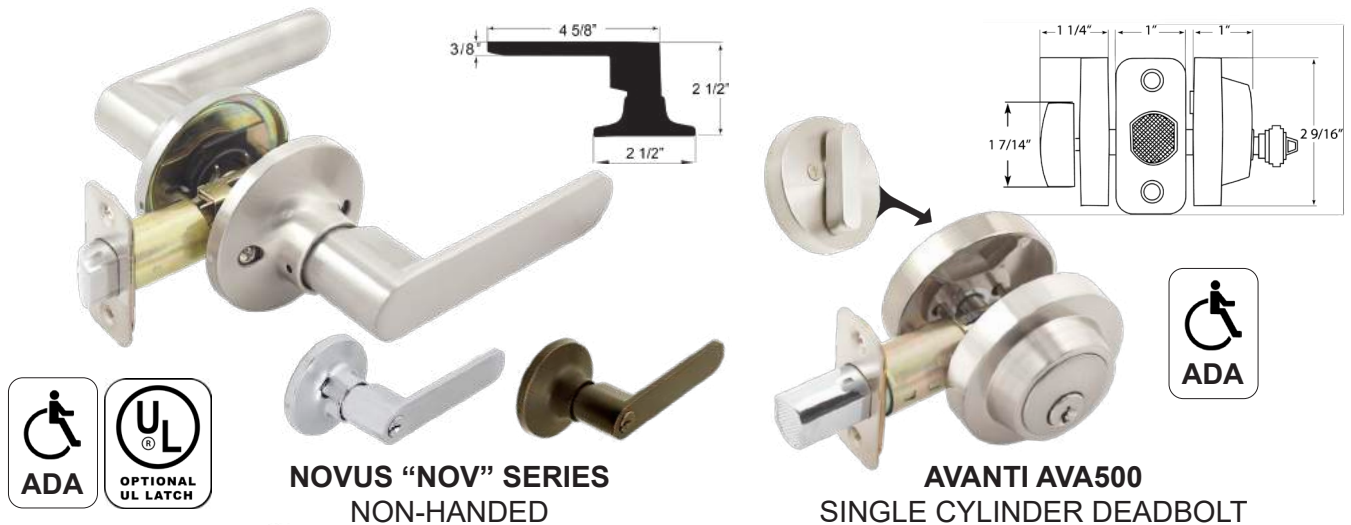
**EXCEL LIFETIME  
ANTI-TARNISH  
FINISH AVAILABLE**

## FINISHES

- ◆ US3 - Polished Brass
- ◆ US5 - Antique Brass
- ◆ US15 - Satin Nickel
- ◆ US15A - Antique Nickel
- ◆ US10B - Oil Rubbed Bronze
- ◆ US26D - Satin Chrome
- ◆ US26 - Polished Chrome
- ◆ Other finishes available upon request based on quantity with factory lead time.
- ◆ **Refer to pricelist for stock functions and finishes**
- ◆ For **EXCEL LIFETIME FINISH** on polished brass, prefix "**LIF**" before part #, with factory lead time

**5 Year Finish Warranty  
25 Year Mechanical Warranty**

# VANGUARD SERIES LEVERSETS & DEADBOLTS



## FEATURES & SPECIFICATIONS

- ◆ ANSI Standard A156.2 Leversets and A156.36 Deadbolts, Grade 3
- ◆ Kwikset Keyway. Re-keyable for Master and Construction Keying
- ◆ Optional Weiser and Schlage "C" Keyway Available
- ◆ Optional 3 Hour Fire Rated UL Latch on Entrance and Passage functions only (**ULENTL-5 for Entrance, and ULPASL-7 for Passage**)
- ◆ Fits 1 3/8" to 1 3/4" Wood or Metal doors
- ◆ Reversible for Right and Left Handed Doors
- ◆ All Metal Body & Cylinder Construction
- ◆ Full 1" Throw Deadbolt with Hardened Steel Pin to Prevent Saw Cutting
- ◆ Deadbolt Comes with 2 3/8" or 2 3/4" Adjustable Backset, Size 1" x 2 1/4" Round Corner Standard; Square Corner Option and Drive-in Latch bolt Also Available on Special Factory Order
- ◆ Optional 1 1/4" x 3 5/8" Security Strike with 3" Screws Also Available
- ◆ Lever Comes with Round Corner Full Lip Strike
- ◆ Lever Comes with **6-way** 2 3/8" or 2 3/4" Adjustable Backset Convertible to Drive-In, Size 1" x 2 1/4" Round Corner Standard
- ◆ Square Corner Option also Available on Special Factory Order
- ◆ Easy Installation

## FINISHES

- ◆ US15 - Satin Nickel
- ◆ US11P - Venetian Bronze
- ◆ US3 - Polished Brass
- ◆ US5 - Antique Brass
- ◆ US26D - Satin Chrome
- ◆ US26 - Polished Chrome
- ◆ US15A - Antique Nickel
- ◆ **Refer to price list for stock finishes**
- ◆ Other finishes available upon request based on quantity with factory lead time

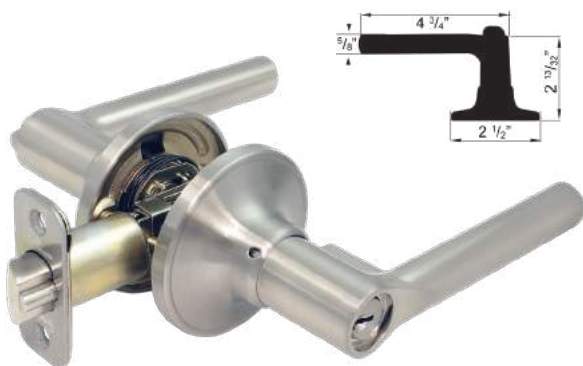
## FUNCTIONS

- 00 - Entry (turn button)
- 05 - Storeroom (vestibule)
- 20 - Privacy (bed & bath, turn button)
- 30 - Passage (hall & closet)
- 40 - Active Dummy

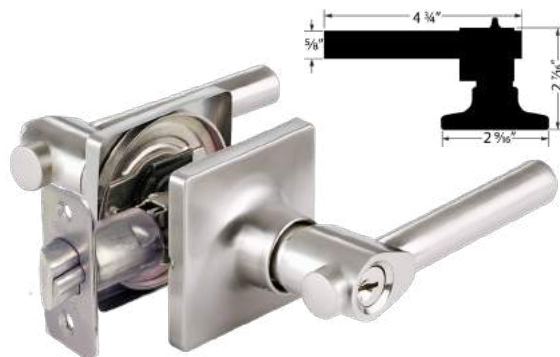
**5 Year Finish Warranty  
25 Year Mechanical Warranty**



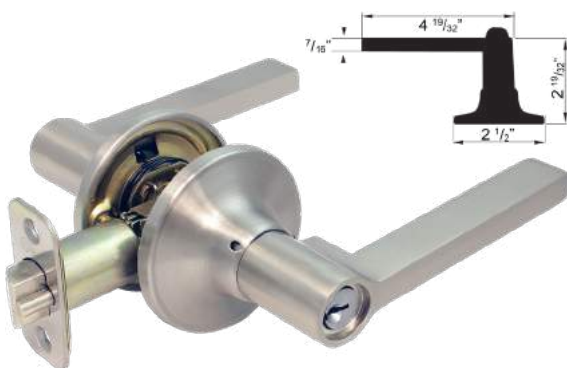
# HERITAGE SERIES LEVERSETS



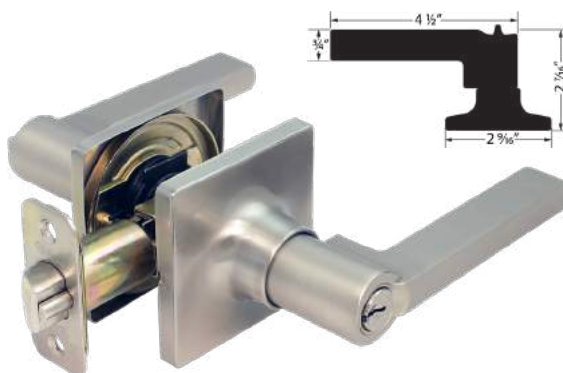
**AZURE "AZU" SERIES  
(NON-HANDED)**



**DELAWARE "DEL" SERIES  
(NON-HANDED)**



**ALLURE "ALL" SERIES  
(NON-HANDED)**



**MEMPHIS "MEM" SERIES  
(NON-HANDED)**

## FEATURES & SPECIFICATIONS

- ◆ ANSI Standard A156.2 Grade 3
- ◆ Keyed Entry with Lever / Lever for Exterior & interior
- ◆ Kwikset Keyway; Re-keyable for Master and Construction Keying
- ◆ Optional Weiser and Schlage "C" Keyway Available
- ◆ Brass and Stainless Steel Trims; Levers are Plated
- ◆ 2 3/8" or 2 3/4" Adjustable Backset, Size 1" x 2 1/4" Round Corner Standard; Square Corner Option and Drive-In Latch bolt also Available on Special Factory Order.
- ◆ Optional 3 Hour Fire Rated UL Latch on Entrance and Passage functions only (**ULENTL-5 for Entrance, and ULPASL-7 for Passage**)
- ◆ Reversible for Right and Left Handed Doors
- ◆ Round Corner Full Lip Strike is Standard
- ◆ Fits 1 3/8" to 1 3/4" Wood or Metal Doors

**5 Year Finish Warranty  
25 Year Mechanical Warranty**

## FINISHES

- ◆ US1 - Flat Black
- ◆ US3 - Bright Brass
- ◆ US5 - Antique Brass
- ◆ US15 - Satin Nickel
- ◆ US15A - Antique Nickel
- ◆ US11P - Venetian Bronze
- ◆ US26D - Satin Chrome
- ◆ US26 - Polished Chrome
- ◆ **Refer to pricelist for stock finishes**

## FUNCTIONS

- 00 - Entry (Turn Button)
- 05 - Storeroom (Vestibule)
- 20 - Privacy (Bed & Bath, Turn Button)
- 30 - Passage (Hall & Closet)
- 40 - Active Dummy



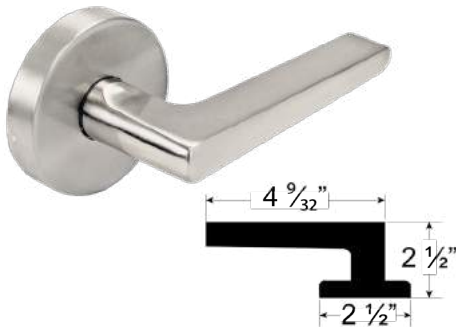
# CONTEMPORARY SERIES LEVERSETS & DEADBOLTS



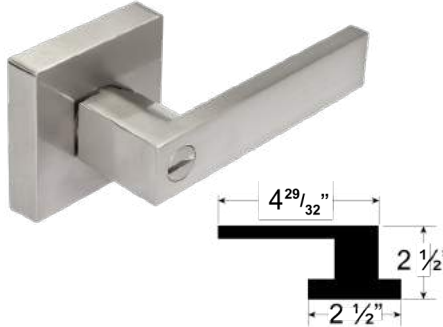
## Grade 3

ANSI Standard A156.2 Leversets, ANSI Standard A156.36 Deadbolt

5 Year Finish Warranty  
25 Year Mechanical Warranty



**\*ATLAS DESIGN**  
**"ATL" SERIES**



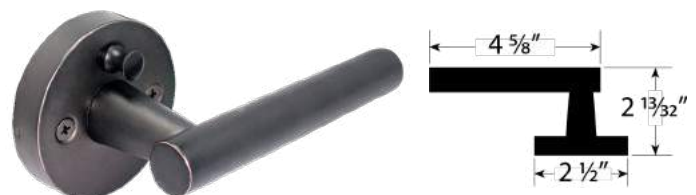
**HOLLAND DESIGN**  
**"HOL" SERIES**



**JUPITER DESIGN**  
**"JUP" SERIES**



**\*PHOENIX DESIGN**  
**"PHO" SERIES**



**\*VANITY DESIGN**  
**"VAN" SERIES**

	00-ENTRANCE (Turn Button)	20-PRIVACY (Push Button)	30-PASSAGE	40-DUMMY
*ATL		●	●	●
HOL	●	●	●	●
JUP	●	●	●	●
*PHO	●	●	●	●
*VAN		●	●	●

**\*Auto-Release for immediate egress on privacy functions.**

- Kwikset 5-Pin Keyway.  
Re-keyable for Master and construction keying
- Fits 1 3/8" to 1 3/4" Thick Doors ( wood and metal doors )
- Adjustable steel 2 3/8" or 2 3/4" backset,  
Size 1" x 2 1/4" Round Corner ( Standard )

- Square Corner Option and Drive-In Latch bolt  
also Available on Special Factory Order
- Round Corner Full Lip Strike: 1 3/4" x 2 1/4", Optional T-Strike
- 1" Bore Diameter for Latch, 2 1/8" Diameter for Lock Housing
- Keyed Entry Comes with Lever / Lever for Exterior and Interior
- Easy Installation
- Available in architectural finishes  
**US3** ( Bright Brass ), **US5** ( Antique Brass ), **US15** ( Satin Nickel ),  
**US15A** ( Antique Nickel ), **US10B** ( Oil Rubbed Bronze ),  
**US26D** ( Satin Chrome ), **US26** ( Polished Chrome ).  
**Refer to price list for stock finishes.**



**ESQUIRE DESIGN**  
**"ESQ" SERIES**  
( Non-Handed )

- Single Cylinder Deadbolt ( **ESQ-101** )  
Double Cylinder Deadbolt ( **ESQ-102** )
- Kwikset 5-Pin Keyway. Re-keyable for Master and construction keying
- Adjustable latch bolt 2 3/8" or 2 3/4"
- 1" x 1 1/4", face plate round corner
- Security Strike: 1 3/4" x 2 1/4", 1/4" Radius
- Available in architectural finishes **US3**, **US5**, **US15**, **US15A**,  
**US10B**, **US26D**, **US26**. **Refer to price list for stock finishes.**

# SUMMIT SERIES LEVERSETS



## Grade 3

**ANSI Standard A156.2 Leversets**  
with Push Button Locking Mechanism and Auto Release Feature  
on Privacy Function

**5 Year Finish Warranty**  
**25 Year Mechanical Warranty**

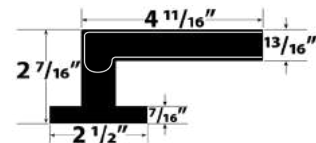
- Fits 1  $\frac{3}{8}$ " to 1  $\frac{3}{4}$ " Thick Doors ( wood and metal doors )
- Adjustable steel 2  $\frac{3}{8}$ " or 2  $\frac{3}{4}$ " backset, Size 1" x 2  $\frac{1}{4}$ " Round Corner Standard
- Square Corner Option and Drive-In Latch bolt (**4DRIVP2-2**) also available on Special Factory Order
- Round Corner Full Lip Strike: 1  $\frac{3}{4}$ " x 2  $\frac{1}{4}$ ", Optional T-Strike
- 1" Bore Diameter for Latch, 2  $\frac{1}{8}$ " Diameter for Lock Housing
- Easy Installation
- Available in architectural finishes  
**US1** ( Black ), **US3** ( Bright Brass ), **US5** ( Antique Brass ),  
**US15** ( Satin Nickel ), **US15A** ( Antique Nickel ),  
**US10B** ( Oil Rubbed Bronze ), **US26D** ( Satin Chrome ),  
**US26** ( Polished Chrome ). **Refer to price list for stock finishes.**



AMB DESIGN



AMB-R DESIGN



### AMBER "AMB" SERIES ( Non-Handed )

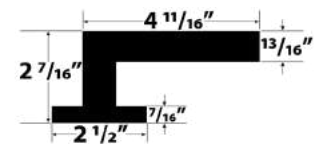
- Functions:**  
00 - Entrance ( **Turn Button** ), 20 - Privacy ( Push Button ),  
30 - Passage ( Hall and Closet ), 40 - Dummy
- Tubular body, **Concealed screws**
- Kwikset 5-Pin Keyway.  
Re-keyable for Master and construction keying
- Square Rose is Standard. Round Rose option in Privacy, Passage, and Dummy functions only.



APX DESIGN

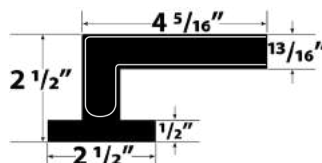


APX-R DESIGN



### APEX "APX" SERIES ( Non-Handed )

- Functions:**  
20 - Privacy ( Push Button ),  
30 - Passage ( Hall and Closet ), 40 - Dummy
- Tubular body, **Concealed screws**
- Square Rose is Standard. Round Rose option in Privacy, Passage, and Dummy functions only.



### ARGO "ARG" SERIES ( Non-Handed )

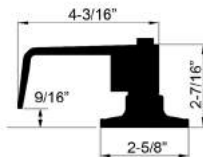
- Functions:**  
20 - Privacy ( Push Button ),  
30 - Passage ( Hall and Closet ),  
40 - Dummy
- Tubular body, **Exposed screws**
- Square Rose is Standard

# LEGACY SERIES LEVERSETS WITH PUSH BUTTON LOCKING MECHANISM

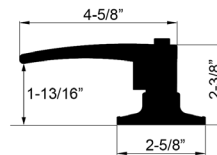
**MEETS**  
The Buy American Act



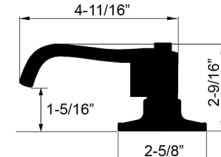
**CABERNET "CAB" SERIES**



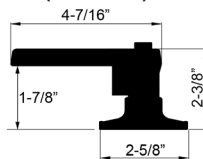
**ZULATTI "ZUL" SERIES**



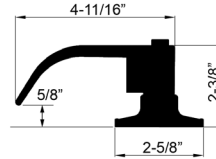
**DUCATI "DUC" SERIES**



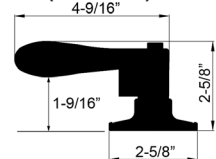
**VIARGENTO "VIA" SERIES  
(HANDED)**



**DENMARK "DEN" SERIES**



**NAPA "NAP" SERIES  
(HANDED)**



## FEATURES & SPECIFICATIONS

- ◆ Meets ADA requirements. Specially designed for Barrier Free Applications
- ◆ Keyed entry with lever / lever for exterior & interior
- ◆ Kwikset keyway. Re-keyable for master and construction keying
- ◆ Weiser and Schlage "C" keyway available
- ◆ Brass and stainless steel trims. Levers are plated
- ◆ **Handed, Reversible levers for Napa & Viargento Series Only**
- ◆ **Screw Guiding Posts for easy screw alignment and tightening making installation fast and easy**
- ◆ **Push button release on entrance & privacy from inside by turning lever**
- ◆ **2 3/8" or 2 1/4" 4-way adjustable backset, size 1" x 2 1/4" round corner standard, convertible to drive in latch.**
- ◆ **Square corner face plate and 5" round corner backsets optional**
- ◆ Optional 3 Hour Fire Rated UL Listed Latch (ULLGEN Series)
- ◆ ANSI Standard A156.2 Grade 3
- ◆ Fits 1 3/8" to 1 3/4" wood or metal doors
- ◆ Round corner full lip strike is standard

## FUNCTIONS

- 00 - Entry (Push Button)
- 20 - Privacy (Bed & Bath, Push Button)
- 30 - Passage (Hall & Closet)
- 40 - Dummy
- 05 - Storeroom (Vestibule)

## FINISHES

- ◆ US15 - Satin Nickel
- ◆ US11P - Venetian Bronze
- ◆ US3 - Polished Brass
- ◆ US5 - Antique Brass
- ◆ US26D - Satin Chrome
- ◆ US26 - Polished Chrome
- ◆ US15A - Antique Nickel
- ◆ **Refer to price list for stock finishes**
- ◆ Other finishes available upon request based on quantity with factory lead time

## SPECIAL FEATURES





# CLIPPER SERIES DEADBOLTS

## TO BE USED WITH LEGACY SERIES LEVERSETS

**MEETS**  
The Buy American Act



**CLP500**  
SINGLE CYLINDER DEADBOLT



**CLP400**  
DOUBLE CYLINDER DEADBOLT



**CLP801**  
ONE-SIDED DEADBOLT WITH PLATE



**CLP701**  
ONE-SIDED DEADBOLT

### FEATURES & SPECIFICATIONS

- ◆ ANSI Standard A156.36, Grade 3
- ◆ Meets ADA Requirements. Specially Designed for Barrier Free Applications
- ◆ Kwikset Keyway. Re-keyable for Master and Construction Keying
- ◆ Weiser and Schlage "C" Keyway Available
- ◆ Optional 3 Hour Fire Rated UL Listed Latch (**ULLGEN Series**)
- ◆ Reversible for Right and Left Handed Doors
- ◆ Full 1" Throw Deadbolt with Hardened Steel Pin to Prevent Saw Cutting
- ◆ **2 3/8" or 2 3/4" 4-way Adjustable Backset, Size 1" x 2 1/4" Round Corner Standard, Convertible to Drive-In latch. Square Corner Face Plate and 5" Round Corner Backsets Optional**
- ◆ All Metal Body & Cylinder Construction
- ◆ Fits 1 3/8" to 1 3/4" wood or metal doors
- ◆ 1" x 2 1/4" Square Corner Strike Standard, Optional Round Corner Full Lip Strike. Optional 1 1/4" x 3 5/8" Security Strike with 3" Screws also Available
- ◆ Easy installation

### FINISHES

- ◆ US15 - Satin Nickel
- ◆ US11P - Venetian Bronze
- ◆ US3 - Polished Brass
- ◆ US5 - Antique Brass
- ◆ US26D - Satin Chrome
- ◆ US26 - Polished Chrome
- ◆ US15A - Antique Nickel
- ◆ **Refer to price list for stock finishes**
- ◆ Other finishes available upon request based on quantity with factory lead time

### SPECIAL FEATURE





# ITALIA SERIES

STAINLESS STEEL LEVERSETS, KNOBSETS, ESCUTCHEON, DEADBOLTS

ANSI STANDARD A156.2, GRADE 3 (Optional Grade 2)

LEVERS / KNOBS COMPATIBLE WITH NM SERIES GRADE 1 MORTISE LOCKS



ESCUTCHEON



MORTISE LOCK



LEVERSETS



DEADBOLTS



KNOBSETS

# ITALIA SERIES

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# ITALIA SERIES

DESIGN YOUR OWN

## DESIGN YOUR OWN

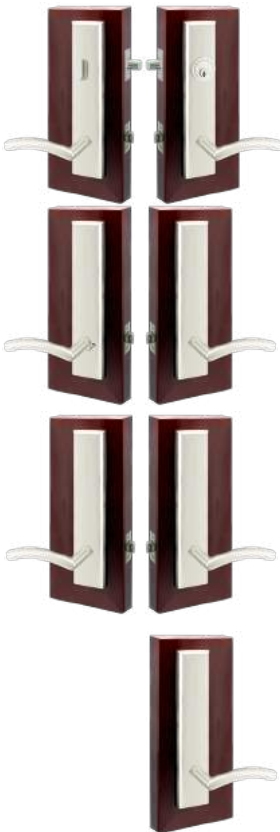
1. CHOOSE A ROSE TYPE
2. SELECT LEVER OR KNOB
3. SPECIFY A FUNCTION
4. SPECIFY LATCH

### ROSE Designs

#### ESCUTCHEON



#### FUNCTIONS



ENTRANCE

PRIVACY

PASSAGE

DUMMY

ROUND

SQUARE

LEVERS

LEVERS

KNOBS

KNOBS

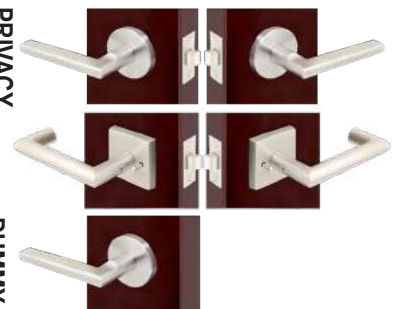
### DEADBOLTS

SINGLE / DOUBLE CYLINDERS



#### FUNCTIONS

PRIVACY  
PASSAGE  
DUMMY



### LATCHES

#### BACKSETS

2 3/4 (70)



GRADE 2  
ADJUSTABLE

2 3/8 (60)



### MORTISE



# LEVER DESIGNS



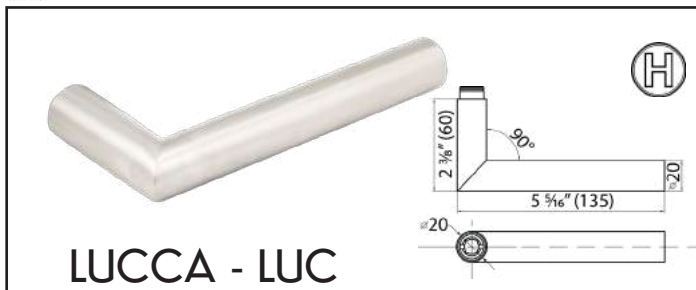
- HANDED



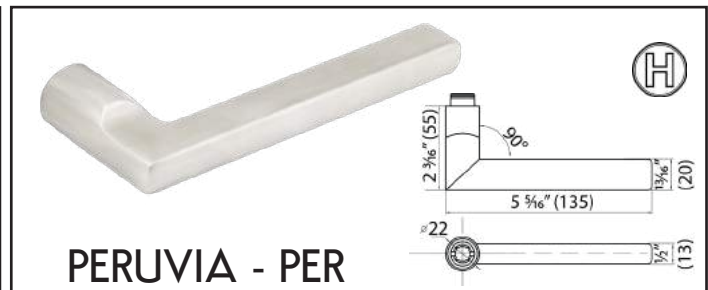
- HOLLOW



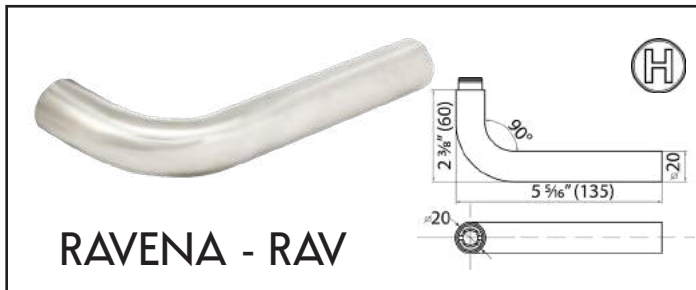
- SOLID



LUCCA - LUC



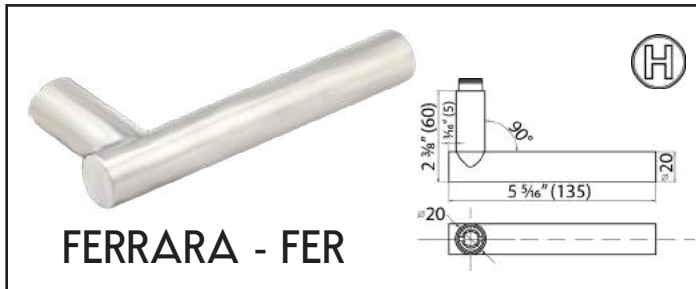
PERUVIA - PER



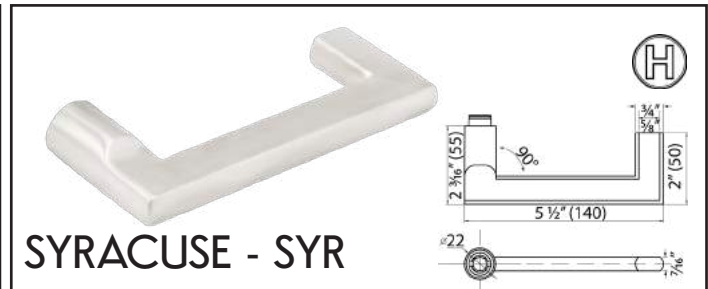
RAVENA - RAV



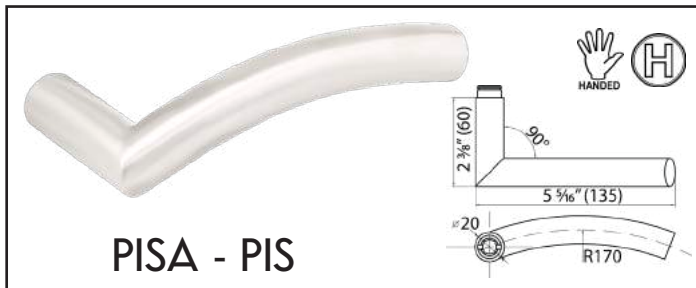
SALERNO - SAL



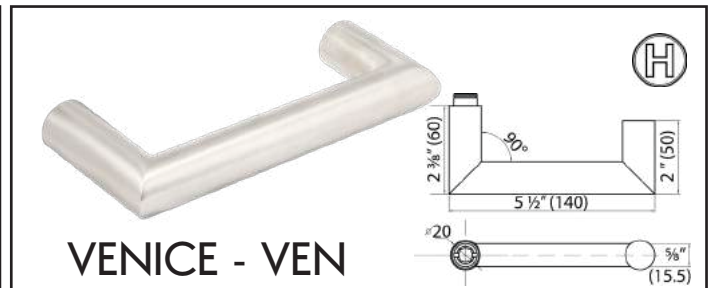
FERRARA - FER



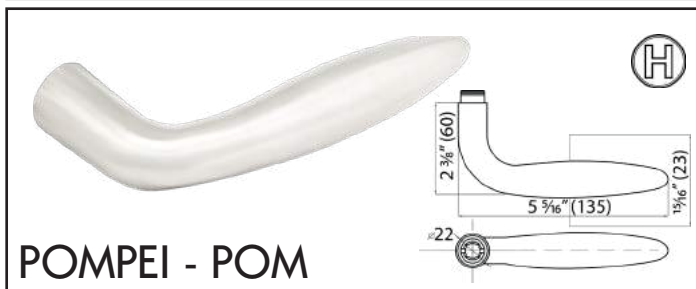
SYRACUSE - SYR



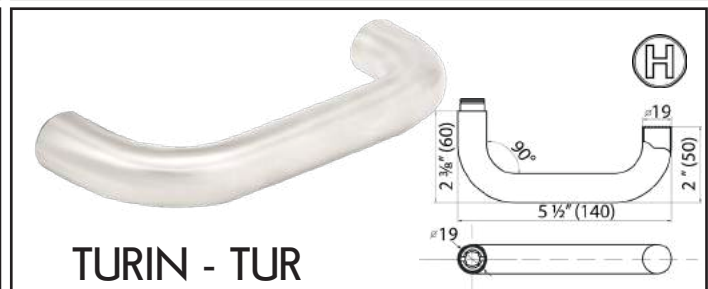
PISA - PIS



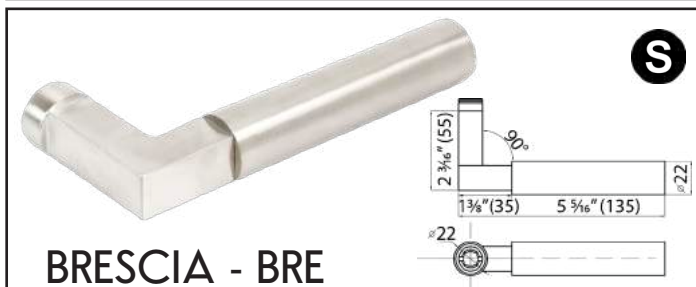
VENICE - VEN



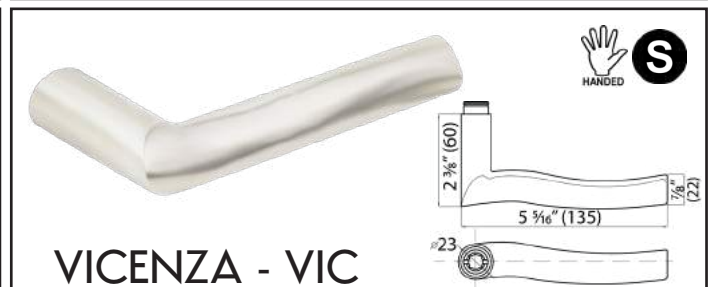
POMPEI - POM



TURIN - TUR



BRESCIA - BRE



VICENZA - VIC



## LEVER / KNOB DESIGNS



- HANDED



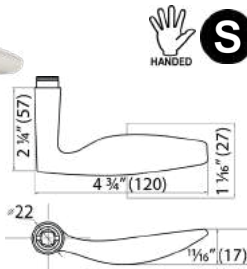
- HOLLOW



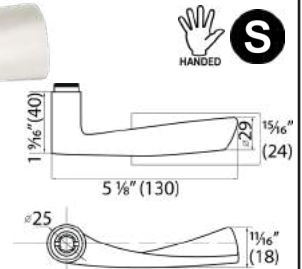
- SOLID



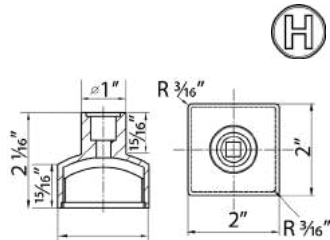
**SIENA - SIE**



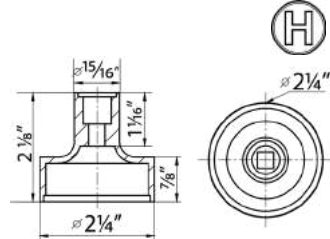
**LIVORNO - LIV**



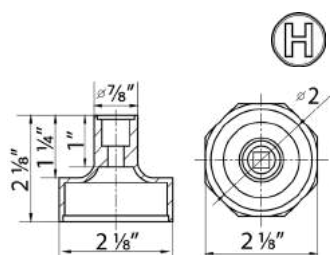
**PADERNO - PAD**



**PALERMO - PAL**



**PAVIA - PAV**

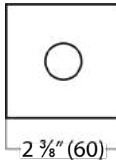


**GIRO - G**



2 1/2" (64)

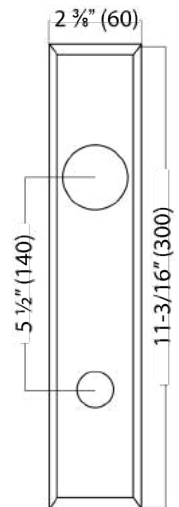
**QUADRO - Q**



2 3/8" (60)



**SCUDO - S**



## HOW TO ORDER

**NOTE:**  
Standard Backset  
is 2 3/8"

**Entrance Function**  
is only available for  
SCUDO rose design  
(escutcheon).

**Privacy Function**  
for SCUDO rose  
specify handing.

### HOW TO ORDER

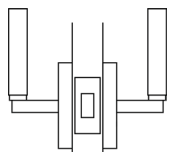
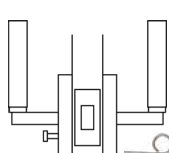
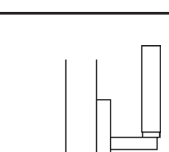
**DDD-FFB-R[H] US32[X]**

DESIGN (ddd)	FUNCTION (FF)	BACKSET (b)	ROSE (R)	HANDING (H)	FINISH (US32X)
See Lever / Knob Designs	00 - Entrance 20 - Privacy 30 - Passage 40 - Single Dummy	8 - 2 3/8" 4 - 2 3/4" 2 - Grade 2 (4-way) 2H - Gr 2 (L/R) 2V - Gr 2 (LHR/RHR)	G - Giro Q - Quadro S - Scudo	L - Left Hand R - Right Hand	US32D - Satin SS US32 - Polished SS US1 - Black

For Example: To order Privacy function Left Handed, SIENA lever design  
with QUADRO style rose and Grade 2 4-way backset in US32D finish:

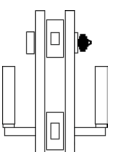
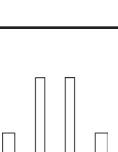
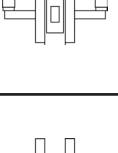
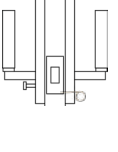
**ORDER PART# : SIE-202-QL US32D**

## TUBULAR LATCH SET

APPLICATION	FUNCTION: NON-KEYED
For residential and commercial interior doors with privacy, passage and dummy function	
MATERIAL	
Stainless Steel Levers, Knobs and Rose	
SPECIFICATIONS	
<ul style="list-style-type: none"> <li>Door thickness: 1 <math>\frac{3}{8}</math>" (35) to 1 <math>\frac{3}{4}</math>" (44)</li> <li>Latch Backset: 2 <math>\frac{3}{8}</math>" (60) standard, 2 <math>\frac{3}{4}</math>" (70) optional</li> <li>Grade 2 Latch: CTG2 Adjustable 2 <math>\frac{3}{8}</math>" (60) and 2 <math>\frac{3}{4}</math>" (70) (optional)</li> <li>Handing: Most lever designs are non-handed, Handed designs are marked accordingly. Specify handing upon ordering</li> <li>Latch Faceplate: 1" x 2 <math>\frac{1}{4}</math>" (25 x 57) square corner</li> <li>Emergency Pin: Available as standard for privacy function</li> <li>Strike: <b>FLS</b> Full Lip Strike 1" x 2 <math>\frac{1}{4}</math>", <math>\frac{1}{4}</math>" round corner (standard)  <b>TS</b> T-Strike 1 <math>\frac{1}{8}</math>" x 2" square corner (standard)  <b>ASA478 US32D</b> ANSI Strike 4 <math>\frac{7}{8}</math>" x 1 <math>\frac{1}{4}</math>" (optional)</li> </ul>	<div>  <p><b>Passage</b> Inside and Outside levers always unlocked</p> </div> <div>  <p><b>Privacy</b> Privacy pin from inside, locks the lever. Turning inside lever releases pin or by emergency release pin</p> </div> <div>  <p><b>Dummy</b> Left or right lever are always inactive</p> </div>



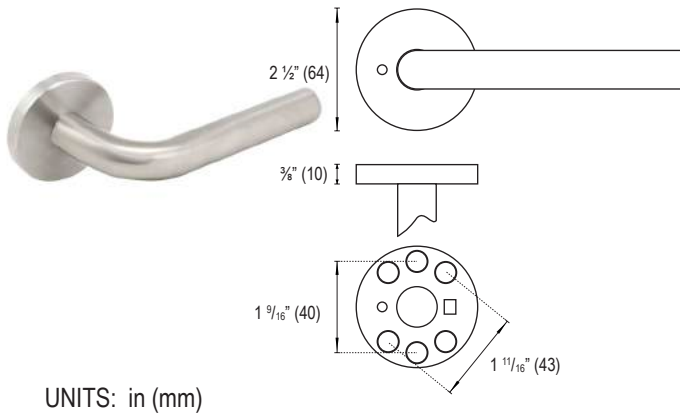
## TUBULAR ENTRY SET

APPLICATION	FUNCTION: KEYED AND NON-KEYED
For residential and commercial exterior and interior doors with entrance, privacy, passage and dummy function	
MATERIAL	
Stainless Steel Levers, Knobs and Escutcheons	
SPECIFICATIONS	
<ul style="list-style-type: none"> <li>Door thickness: 1 <math>\frac{1}{16}</math>" (40) - 2 (50)</li> <li>Latch Backset: 2 <math>\frac{3}{8}</math>" (60) standard 2 <math>\frac{3}{4}</math>" (70) optional</li> <li>Handing: Field reversible for passage and privacy function</li> <li>Latch Faceplate: 1" x 2 <math>\frac{1}{4}</math>" (25 x 57) square corner</li> <li>Strike: <b>FLS</b> Full Lip Strike 1" x 2 <math>\frac{1}{4}</math>", <math>\frac{1}{4}</math>" round corner (standard)  <b>TS</b> T-Strike 1 <math>\frac{1}{8}</math>" x 2" square corner (standard)  <b>ASA478 US32D</b> ANSI Strike 4 <math>\frac{7}{8}</math>" x 1 <math>\frac{1}{4}</math>" (optional)</li> </ul>	<div>  <p><b>Entrance</b> Key outside and thumb-turn inside locks or unlocks cylinder. Inside and outside levers always unlocked</p> </div> <div>  <p><b>Passage</b> Inside and Outside levers always unlocked</p> </div> <div>  <p><b>Privacy</b> Privacy pin from inside, locks the lever. Turning inside lever releases pin or by emergency release pin outside. <b><u>Specify Handing</u></b> when ordering.</p> </div> <div>  <p><b>Dummy</b> Left or right lever are always inactive</p> </div>
<p><b>Entrance Function</b></p> <ul style="list-style-type: none"> <li>Cylinder and Keys: Schlage C Keyway Cylinder 5-pin with 2 keys Keying service available</li> <li>Deadbolt: Latch Bolt: Grade 1, 4-way Drive-In, Brass bolt Adjustable 2 <math>\frac{3}{8}</math>" (60) and 2 <math>\frac{3}{4}</math>" (70) Deadbolt Strike: 1 <math>\frac{1}{8}</math>" x 2 <math>\frac{3}{4}</math>" (29 x 70) square corner standard</li> </ul> <p><b>Privacy Function</b></p> <ul style="list-style-type: none"> <li>Emergency Pin: Available as standard for privacy function</li> </ul> <p><b>Grade 2 Latch Upgrade</b></p> <ul style="list-style-type: none"> <li>Available for Entrance, Privacy and Passage functions of lever / knob</li> </ul>	



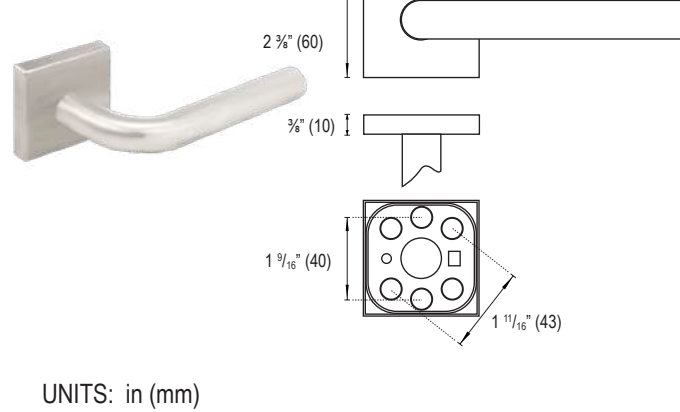
## GIRO ROSE

Material: Stainless Steel



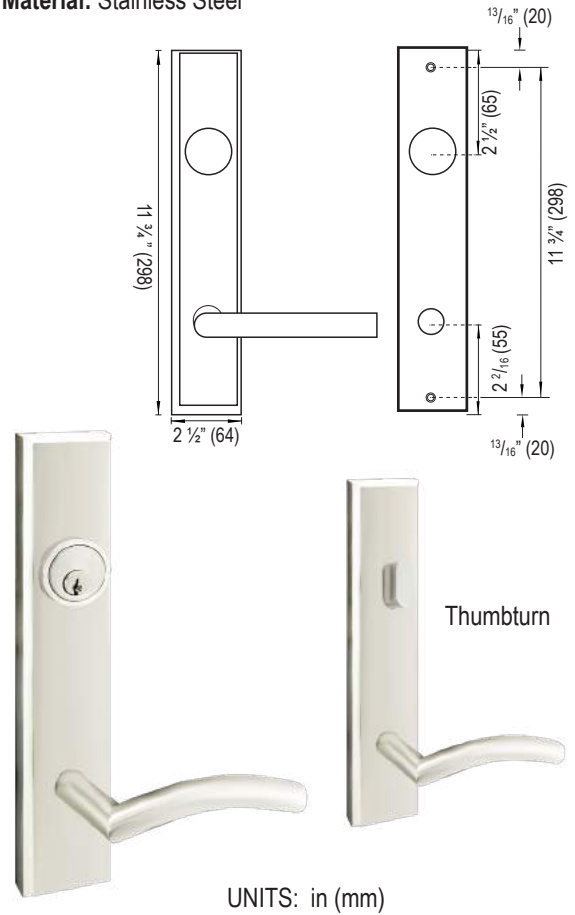
## QUADRO ROSE

Material: Stainless Steel

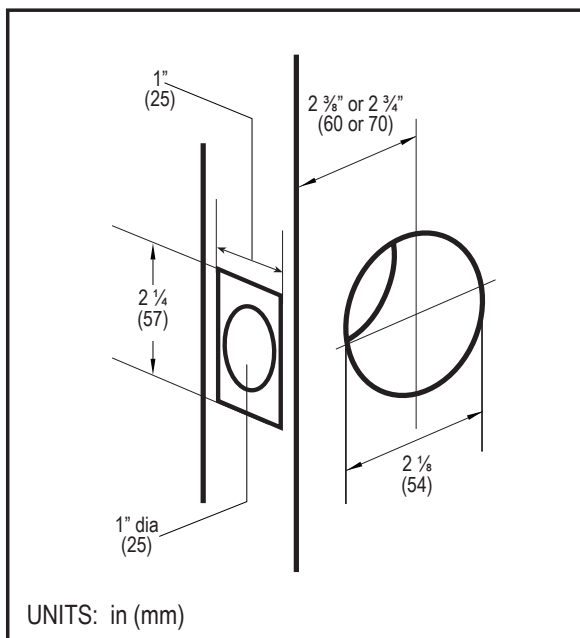


## SCUDO ESCUTCHEON

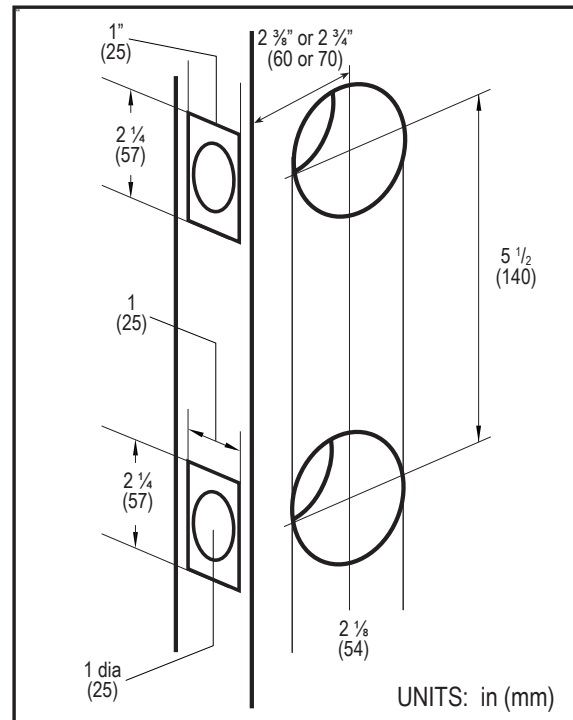
Material: Stainless Steel



## DOOR PREPARATION



ROSE



ESCUTCHEON

# NM SERIES MORTISE LOCK

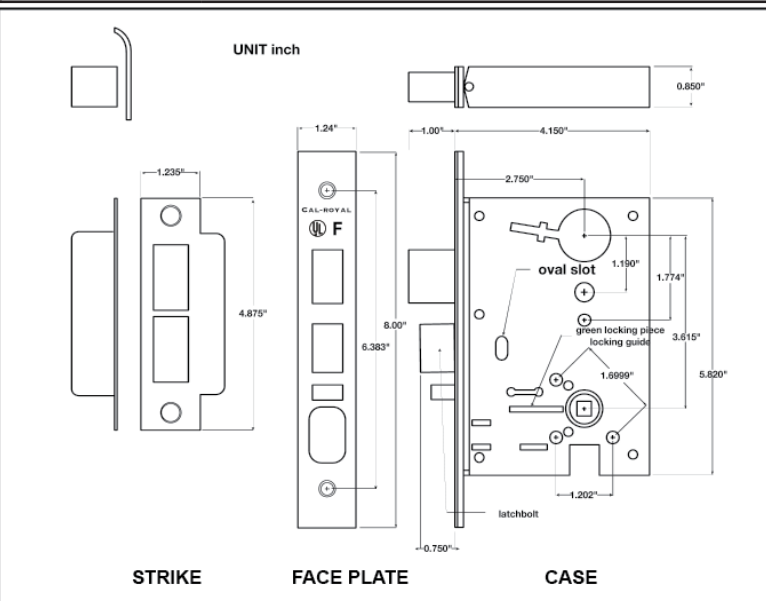


## NM SERIES GRADE 1 MORTISE LOCK

### FEATURES & SPECIFICATIONS

For Doors.....	1 ¼"
Backset.....	2 ¾"
Lockcase.....	Heavy gauge zinc chromate steel
Front.....	Heavy gauge steel 8" x 1 ¼" x 3/32". Accommodates flat doors and doors beveled 1/8" in 2"
Armored Front.....	Wrought brass attached by machine screws to lock case front
Deadbolt.....	1" throw, brass chrome-plated with hardened steel rollers
Guard-bolt.....	Extruded brass, chrome plated
Stop-works.....	Rocker type, brass, chrome-plated
Strikes.....	Brass, non-handed curve strike 4 7/8" x 1/4". Curved-up strike available upon request
Handing.....	Handed. Easily field-reversible
Trim.....	See Lever / Knob Designs, Giro / Quadro rose pages
Cylinder.....	As specified
Keyway.....	As specified
Finishes.....	As specified
UL Listing.....	UL Listed "A" Label (3 hours), for use on fire doors, single or pair of doors. "F" mark stamped on strike
ANSI.....	Lock body conforms to Federal specification Type 86; and to all dimensional and operational performances of ANSI A156.13, Series 1000 Grade 1, exceeds 1,000,000 cycles

	MODEL	ANSI	AVAILABLE FUNCTIONS
	NM8050	F04	Office / Entrance
	NM8070	F05	Classroom
	NM8080	F07	Storeroom
	NM8453	F20	Entrance
	NM8010	F01	Passage
	NM8440	F19	Privacy with Deadbolt
	NM8456	F13	Corridor / Exit
	NM8465	---	Closet / Storeroom with Deadbolt
	NM8473	F21	Dormitory / Bedroom



### HOW TO ORDER:

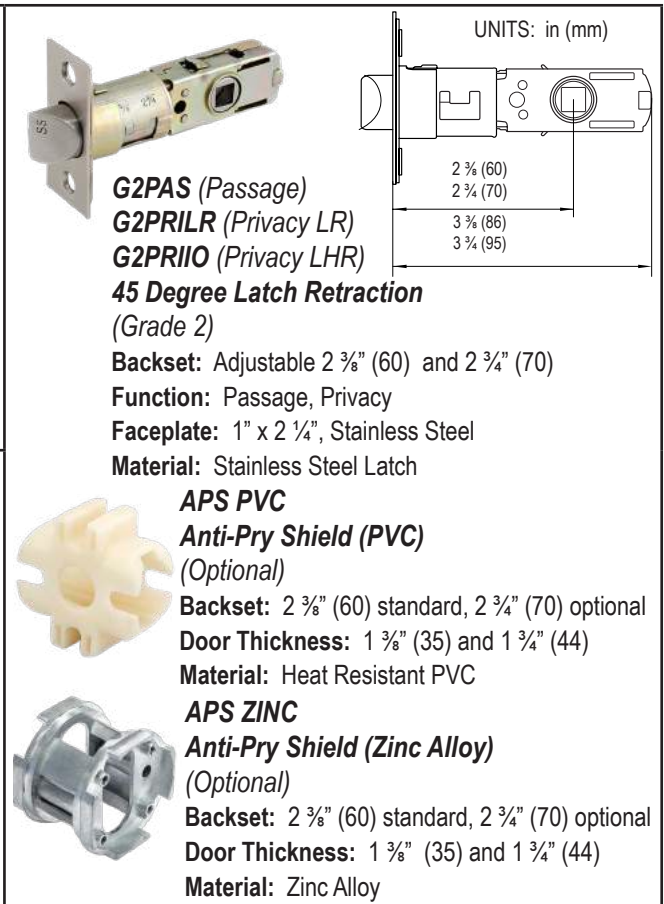
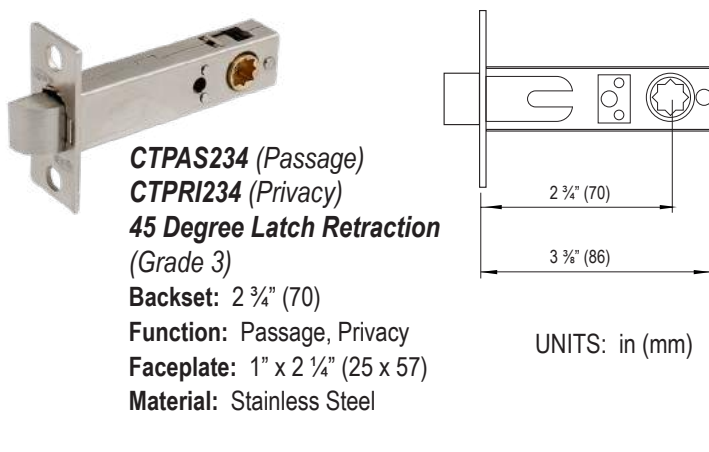
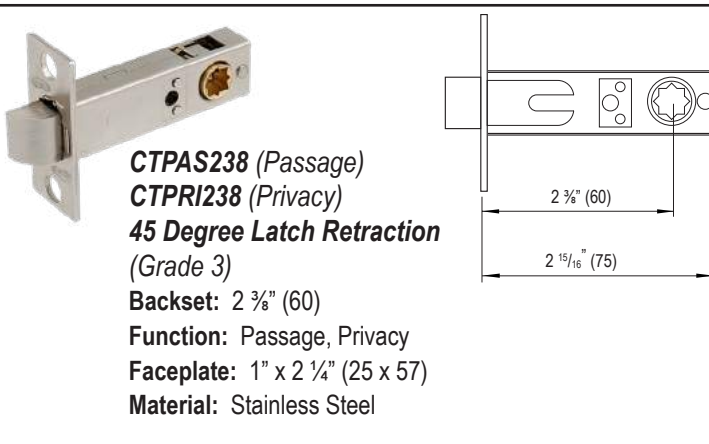
MODEL NUMBER + HANDING + LEVER DESIGN + ROSE DESIGN + FINISH

REFER TO PAGES 96-97 FOR ROSE AND LEVER DESIGNS

Other functions available with factory lead time and subject to minimum order

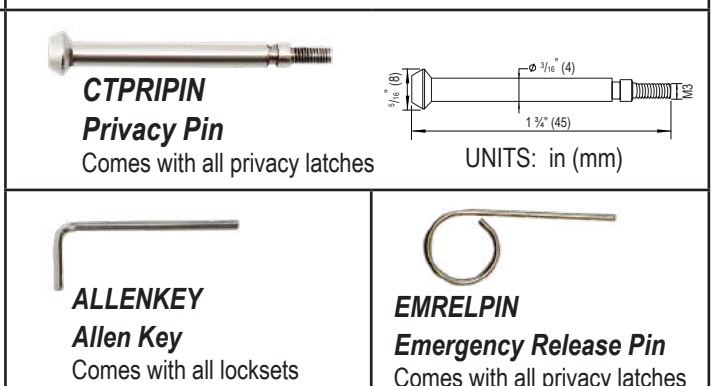
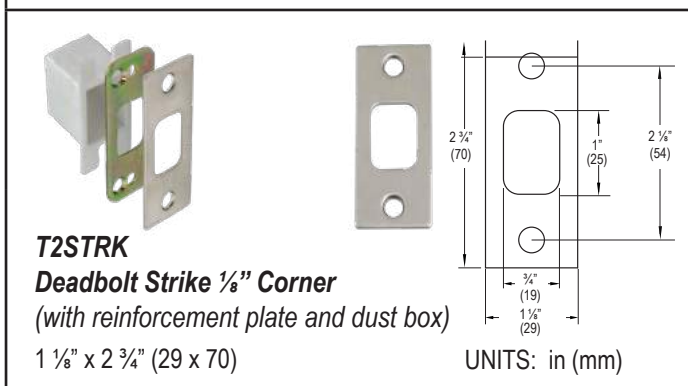
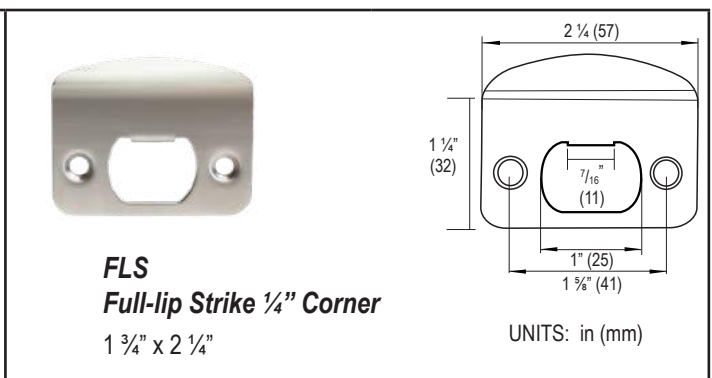
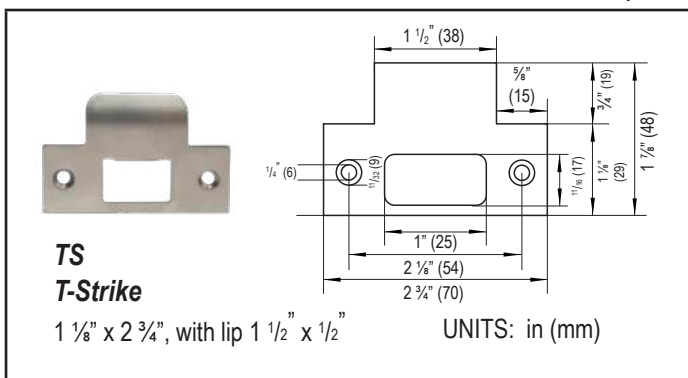


## LATCHES

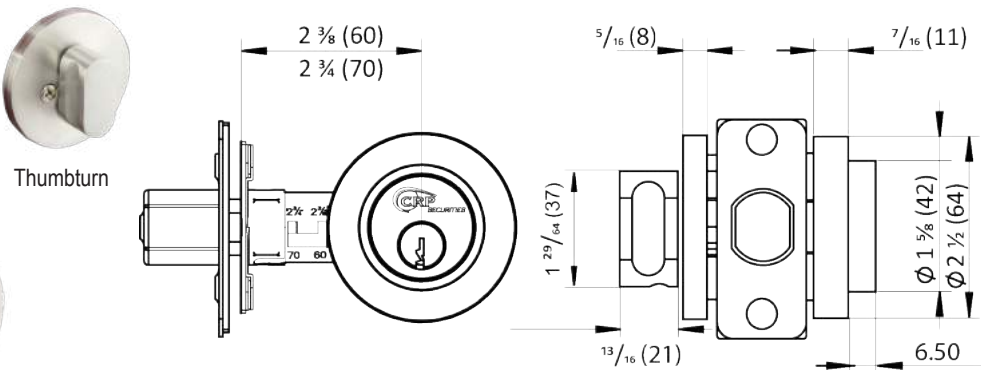


## STRIKES

All latches come with both T-Strike and Full-lip Strike standard

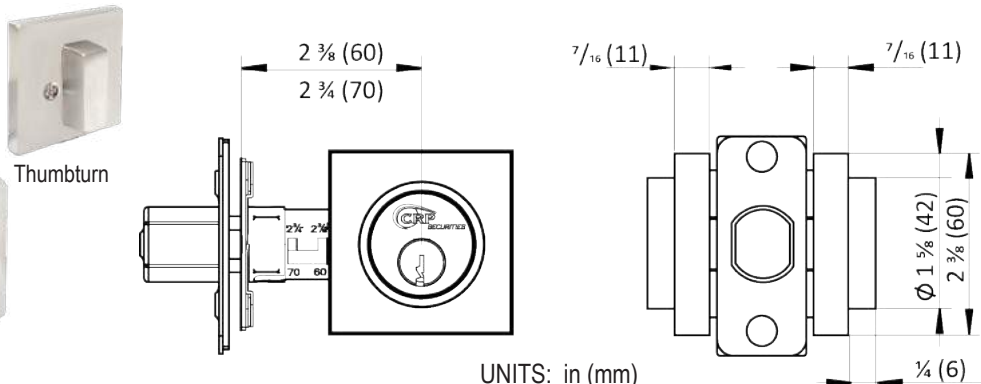


**RND-500** (round rose)  
**SQR-500** (square rose)  
**Single Cylinder Deadbolt**



UNITS: in (mm)

**RND-400** (round rose)  
**SQR-400** (square rose)  
**Double Cylinder Deadbolt**



UNITS: in (mm)

## APPLICATION

For residential and commercial exterior and interior doors

## MATERIAL

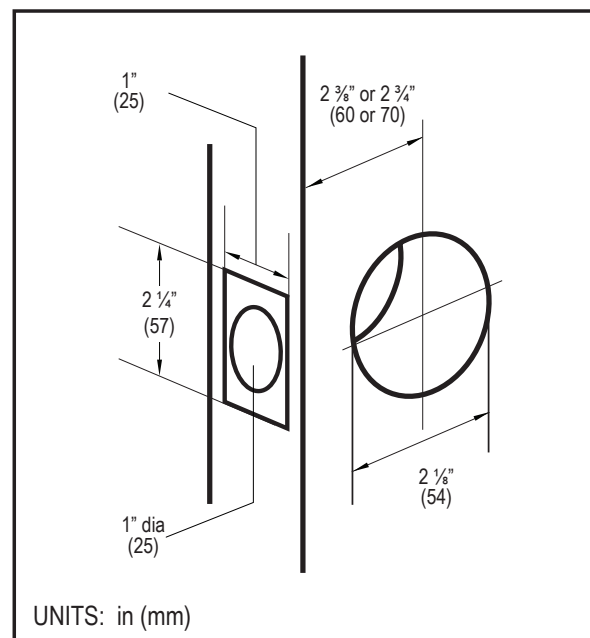
Stainless Steel

## SPECIFICATIONS

- Latch Bolt: Grade 1, 4-way Drive-In, Brass, Satin Nickel bolt
- Latch Backset: Adjustable 2 3/8 (60) and 2 3/4 (70)
- Handing: Non-Handed
- Latch Faceplate: 1" x 2 1/4" (25 x 57)
- Deadbolt Strike: 1 1/8" x 2 3/4" (29 x 70) square corner (standard)
- Security Strike: 1 1/8" x 2 3/4" x 3/32" (29 x 70 x 2) (standard)
- Cylinder and Keys: Schlage C Keyway, Cylinder 5-pin with 2 keys  
Keying service available

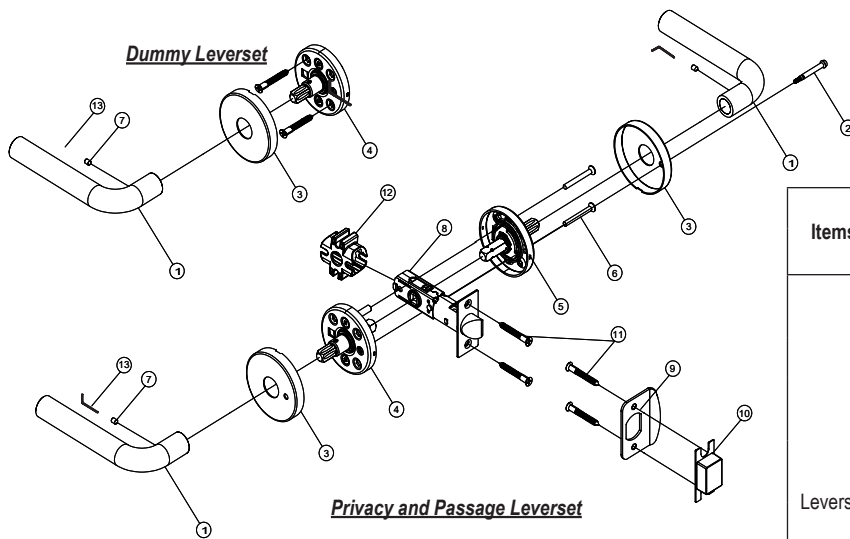
MODEL	DESCRIPTION	DOOR THICKNESS
RND-508	SINGLE CYLINDER ROUND ROSE	1 3/8" (35) - 1 3/4" (45)
RND-504		1 3/4" (45) - 2" (50)
SQR-508	SINGLE CYLINDER SQUARE ROSE	1 3/8" (35) - 1 3/4" (45)
SQR-504		1 3/4" (45) - 2" (50)
RND-404	DOUBLE CYLINDER ROUND ROSE	1 3/4" (45) - 2" (50)
SQR-404	DOUBLE CYLINDER SQUARE ROSE	1 3/4" (45) - 2" (50)

## DOOR PREPARATION



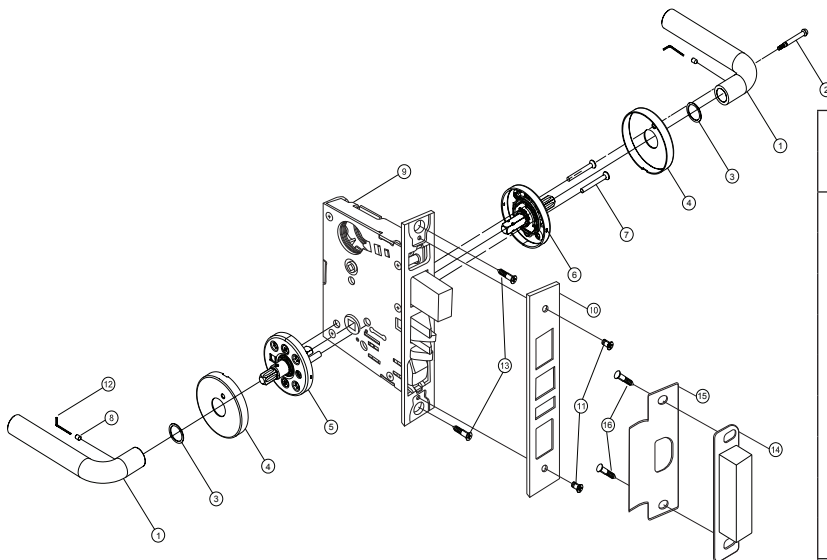
UNITS: in (mm)

## EXPLODED DIAGRAM ROSE WITH TUBULAR LATCH



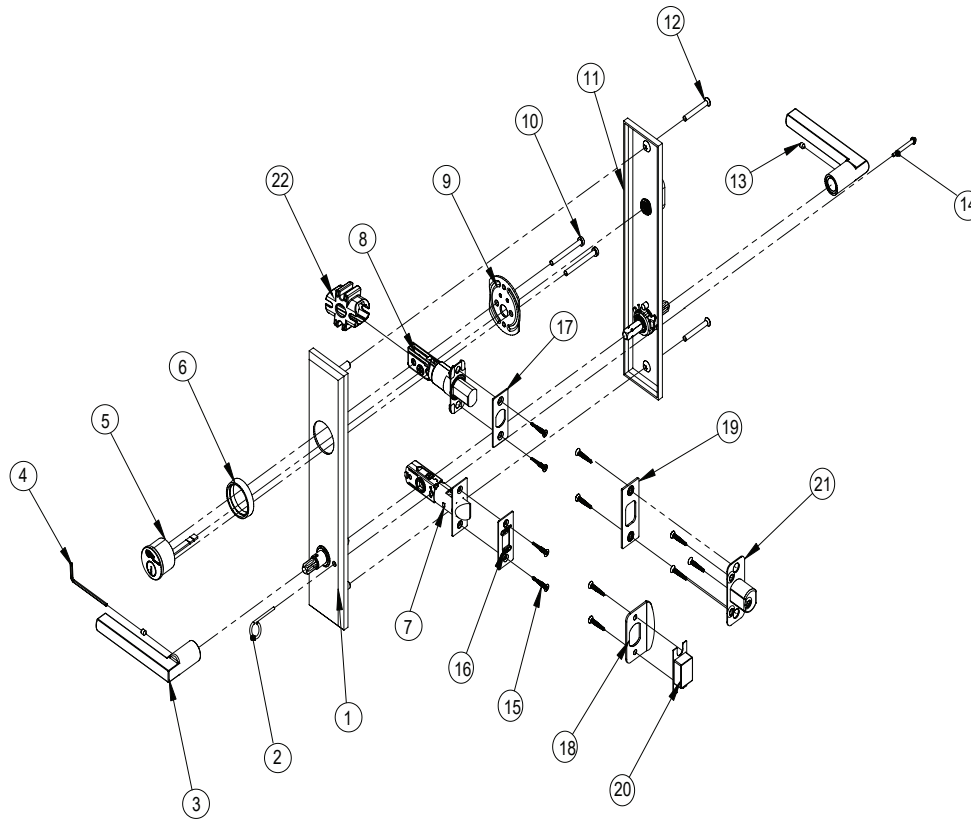
Items	No.	Parts Description	Function		
			Privacy	Passage	Dummy
Leverset	1	Outside / Inside Lever / Knob	2 ea	2 ea	1 ea
	2	Privacy Pin	1 ea	—	—
	3	Giro / Quadro Outside / Inside Rose Cover	2 ea	2 ea	1 ea
	4	Giro / Quadro Outside Inner Rose	1 ea	1 ea	—
	5	Giro / Quadro Inside Inner Rose	1 ea	1 ea	1 ea
	6	8U32*40 Screw	2 ea	2 ea	—
	7	M5x6 Set Screws	2 ea	2 ea	1 ea
	-	4*25 Wood Screw	—	—	4 ea
	13	Hex Key	1 ea	1 ea	1 ea
Locks	8	Tubular Latch	1 ea	1 ea	—
	9	Tubular Latch Striking Plate	1 ea	1 ea	—
	10	Tubular Latch Dust Box	1 ea	1 ea	—
	11	8U32x25 Combination Screws / 3.5x20 Wood Screws	4 ea	4 ea	—
	12	Anti-Pry Shield	1 ea	1 ea	—

## EXPLODED DIAGRAM ROSE WITH NM SERIES MORTISE LOCKS



Items	No.	Parts Description	Function
			Mortise
Leverset	1	Outside / Inside Lever / Knob	2 ea
	2	Privacy Pin	1 ea
	3	Giro / Quadro Outside / Inside Rose Cover	2 ea
	4	Giro / Quadro Outside Inner Rose	1 ea
	5	Giro / Quadro Inside Inner Rose	1 ea
	6	8U32*40 Screw	2 ea
	7	M5x6 Set Screws	2 ea
	-	4*25 Wood Screw	—
	12	Hex Key	1 ea
	9	Mortise Lock body	1 ea
	10	Mortise Lock Face Plate	1 ea
	11	Face Plate screws with Mortise Lock	2 ea
	13	Mortise Lock Body screws	2 ea

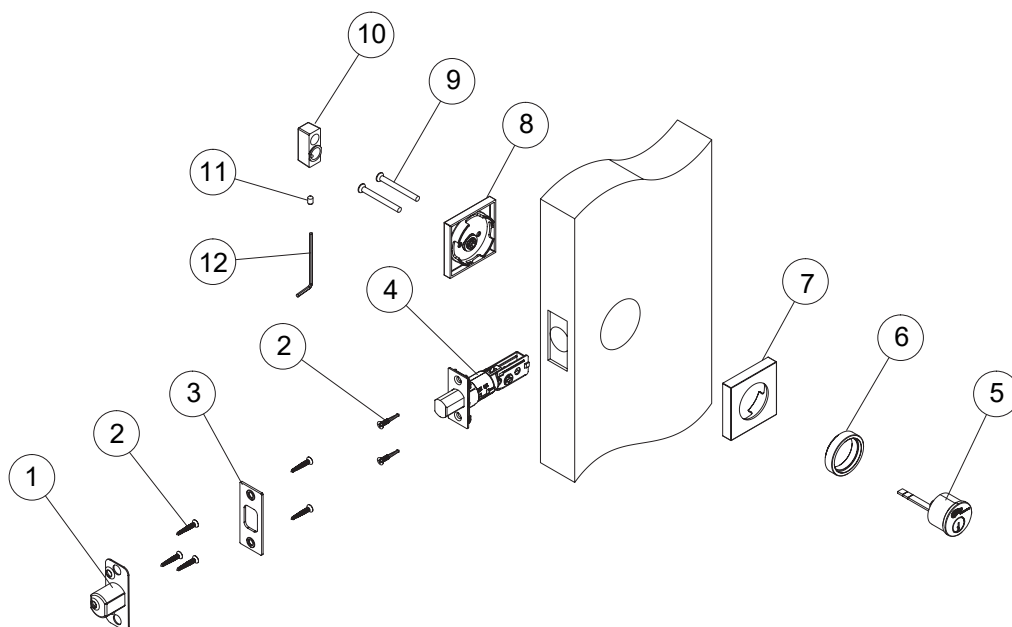
# EXPLODED DIAGRAM ESCUTCHEON WITH TUBULAR LATCH



Items	No.	Parts Description	Function			
			Entrance	Privacy	Passage	Dummy
Escutcheon Parts	1	Front Plate	1 ea	1 ea	1 ea	—
	2	Privacy Push Pin Release	—	1 ea	—	—
	3	Lever	2 ea	2 ea	2 ea	1 ea
	4	Hex Key	1 ea	1 ea	1 ea	1 ea
	5	Cylinder	1 ea	—	—	—
	6	Cylinder Ring	1 ea	—	—	—
	9	Cylinder Protective Plate	1 ea	—	—	—
	10	M5 x 50 Screws	2 ea	—	—	—
	11	Back Plate	1 ea	1 ea	1 ea	1 ea
	12	M6 x 40 Screws / 5*38 Wood Screws	2 ea	2 ea	2 ea	2 ea
	13	M5x6 Set Screws	2 ea	2 ea	2 ea	1 ea
	14	Privacy Pin	—	1 ea	—	—
Locks	7	Tubular Latch	1 ea	1 ea	1 ea	—
	8	Deadbolt	1 ea	—	—	—
	15	8U32x25 Combination Screws / 3.5x20 Wood Screws	8 ea	4 ea	4 ea	—
	16	Tubular Latch Striking Plate	1 ea	1 ea	1 ea	—
	17	Deadbolt Face Plate	1 ea	1 ea	1 ea	1 ea
	18	Tabular Latch Striking Plate	1 ea	1 ea	1 ea	—
	19	Deadbolt Striking Plate	1 ea	—	—	—
	20	Tubular Latch Dust Box	1 ea	1 ea	1 ea	—
	21	Deadbolt Dust Box	1 ea	—	—	—
	22	Anti-Pry Shield	1 ea	1 ea	1 ea	—

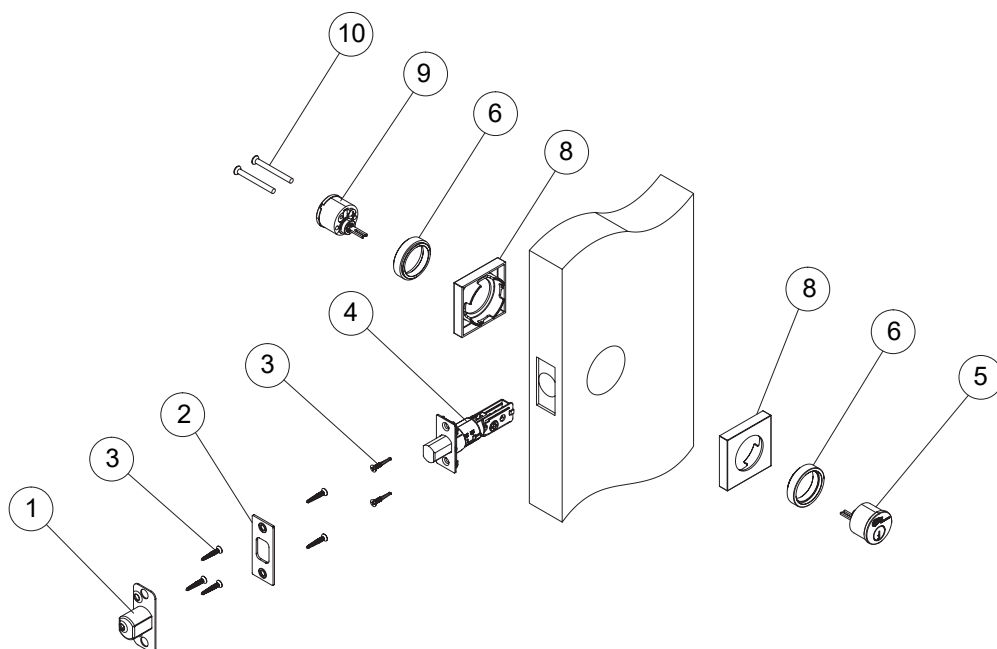


## EXPLODED DIAGRAM SINGLE CYLINDER WITH DEADBOLT



<b>Part List</b>	
1.	Deadbolt Dust Box
2.	5 x 76 Screws (2 ea)
3.	Deadbolt Striking Plate
4.	Deadbolt
5.	Outside Cylinder w/ Tailpiece
6.	Cylinder Ring
7.	Outside Cylinder Escutcheon
8.	Inside Deadbolt Escutcheon
9.	M5 x 65 Screw (2 ea)
10.	Thumbturn
11.	M5 x 6 Set Screw
12.	Hex Key

## EXPLODED DIAGRAM DOUBLE CYLINDER WITH DEADBOLT



<b>Part List</b>	
1.	Deadbolt Dust Box
2.	5 x 76 Screws (2 ea)
3.	Deadbolt Striking Plate
4.	Deadbolt
5.	Outside Cylinder w/ Tailpiece
6.	Cylinder Ring
7.	Outside Cylinder Escutcheon
8.	Inside Deadbolt Escutcheon
9.	Inside Cylinder w/ Tailpiece
10.	M5 x 6 Set Screw

## CARE AND MAINTENANCE



### MAINTENANCE

All Cal-Royal Locksets were designed and manufactured to be maintenance-free under normal operating conditions and environments. Exposure to extremely heavy traffic and / or particularly dusty and dirty environmental conditions, however, may eventually cause unsatisfactory operation due to slow-moving parts or sticking cylinders. In this case, it may be necessary to clean and re-lubricate the lockset to maintain optimum performance.

#### Locksets

- To clean the lockset mechanism, use a non-corrosive substance or a penetrating or solvent type lubricant to loosen sticking components, then lubricate with lithium grease, silicone or teflon based lubricant
- Do not use lubricant in cylinder (oil or aerosol type)

#### Cylinders

- When a key becomes “sticky” in a cylinder, you may sprinkle a small amount of graphite onto the key and then insert the key inside the cylinder
- To free up sticking cylinders, lubricate with graphite or a non-oily lubricant (such as Lock-EZE)
- Do not use petroleum-based lubricants in the cylinder keyway. WD-40 or oil will collect dirt over time, and a liquid might even freeze in the lock if weather is cold enough. Graphite is the good choice, the powdered version of molybdenum disulfide would work as well
- Do not use lubricant in cylinder (oil or aerosol type)

### STAINLESS STEEL - CARE & MAINTENANCE GUIDE

Stainless steel is a durable material which improves longevity and minimal wear. Exterior use, coastal areas and other corrosive environments may result in pitting, surface rust, and tarnishing.

The main difference between a stainless steel and carbon steel is the amount of chromium present. Carbon steel rusts immediately when exposed to air and moisture. It may take longer for stainless steel to corrode, but it will definitely do if not properly maintained.

We recommend cleaning with available commercial cleansing agents. Avoid using steel wool, steel brushes or similar accessories when cleaning as these harm the protective surface and rust may arise from the abrasion.

Some commercial products are also available that provides a non-stick protective coating that seals the surface, allowing for easier cleaning and maintenance like:

- EnduroShield Stainless Steel Coating
- Sprayon Stainless Steel Protective Coating
- ProtectaClear, by Everbrite

**NOTE:** Cal-Royal does not sell these products.

## PRODUCT WARRANTY

### MERCHANDISE WARRANTY

Goods are warranted against defects in manufacture for one year. The company makes no other warranty, and all implied warranties including any warranty of merchantability or fitness for a particular purpose are limited to the duration of the expressed warranty period as set forth above.

The company's maximum liability hereunder is limited to the purchase price of the products, in no event shall the company be liable for any consequential, indirect, incidental or special damages of any nature arising from the sale or use of this product, whether in contract, tort, strict liability or otherwise.


Products will not be accepted for repair or replacement under this warranty unless we have given prior authorization for their return. Upon receipt of products returned for repair or replacement we will determine whether products qualify for repair or replacement under this warranty; if they do not, we will notify our customer of estimated costs of repair or replacement involved and will obtain authorization prior to proceeding. We have no liability to pay any costs of repair performed by anyone other than us, unless in each instance we have given prior written approval of such repair in which case we will pay what we consider to be the reasonable cost thereof.

### Replacement Cylinders


#### Features:

- Made to Original Manufacturers' Keying Specifications
- All Cylinders drilled for 6-Pins
- Can be keyed with original pins
- Packed with appropriate accessories


#### KEY-IN-KNOB / LEVER & DEADBOLT CYLINDER (Packed with tailpiece assortment pack)

ILLUSTRATION	ITEM#	DESCRIPTION	KEYED	FINISH
	KKARA-4	6-Pin Arrow "A"	5-Pin	US26D
	KKC59-4	6-Pin Corbin 60 Russwin 59	5-Pin	
	KKCL4-4	6-Pin Corbin L1 thru L4	6-Pin	
	KKKW5-4	6-Pin Kwikset	5-Pin	
	KKR-D1-4	6-Pin Russwin D-1 thru 4	6-Pin	
	KKSCC-4	6-Pin Schlage "C"	6-Pin	
	KKSCE-4	6-Pin Schlage "E"	6-Pin	
	KKSCF-4	6-Pin Schlage "F"	6-Pin	
	KKSCP-4	6-Pin Schlage C-K	5-Pin	
	KKSLA-4	6-Pin Sargent "LA" thru "LC"	6-Pin	
	KKSRA-4	6-Pin Sargent "RA"	6-Pin	
	KKWFE-4	6-Pin Weiser / Falcon "E"	5-Pin	
	KKYA8-4	6-Pin Yale 8 (E1R)	5-Pin	
	KKYGA-4	6-Pin Yale "GA"	6-Pin	


#### 1-1/4" MORTISE CYLINDERS (Packed with Adams Rite and Yale Cams)

	KMARA-4	6-Pin Arrow "A"	5-Pin	US26D
	KMC59-4	6-Pin Corbin 60 Russwin 59	5-Pin	
	KMCL4-4	6-Pin Corbin L1 thru L4	6-Pin	
	KMKW5-4	6-Pin Kwikset	5-Pin	
	KMRD1-4	6-Pin Russwin D-1 thru 4	6-Pin	
	KMSCC-4	6-Pin Schlage "C"	6-Pin	
	KMSCE-4	6-Pin Schlage "E"	6-Pin	
	KMSCF-4	6-Pin Schlage "F"	6-Pin	
	KMSCP-4	6-Pin Schlage C-K	5-Pin	
	KMSLA-4	6-Pin Sargent "LA" thru "LC"	6-Pin	
	KMSRA-4	6-Pin Sargent "RA"	6-Pin	
	KMWFE-4	6-Pin Weiser / Falcon "E"	5-Pin	
	KMYA8-4	6-Pin Yale 8 (E1R)	5-Pin	
	KMYGA-4	6-Pin Yale "GA"	6-Pin	

#### RIM CYLINDERS

	KR-AR-A	Arrow "A"	5-Pin	US26D
	KR-C-59	Corbin 60 Russwin 59	5-Pin	
	KR-C-L4	Corbin L1 thru L4	6-Pin	
	KR-KW-5	Kwikset	5-Pin	
	KR-R-D1	Russwin D-1 thru 4	6-Pin	
	KR-SC-C	Schlage "C"	6-Pin	
	KR-SC-E	Schlage "E"	6-Pin	
	KR-SC-F	Schlage "F"	6-Pin	
	KR-SC-P	Schlage C-K	5-Pin	
	KR-S-LA	Sargent "LA" thru "LC"	6-Pin	
	KR-S-RA	Sargent "RA"	6-Pin	
	KR-WF-E	Weiser / Falcon "E"	5-Pin	
	KR-YA-8	Yale 8 (E1R)	5-Pin	
	KR-Y-GA	Yale "GA"	6-Pin	


#### 6 PIN SCHLAGE "C" KEYWAY MORTISE AND RIM CYLINDERS

ILLUSTRATION	ITEM NO	DESCRIPTION	FINISH
 MCCR1814      MCCR3812	<b>CX96RIM</b>	6-Pin SCHLAGE "C" keyway 1 1/8" Rim Cylinder with mounting plate & screws	US26D, US10B, 3
	<b>AMORTCYL118</b>	6-Pin SCHLAGE "C" Keyway Mortise Cylinder 1 1/8" length, with Adams Rite Cam	
	<b>AMORTCYL114</b>	6-Pin SCHLAGE "C" Keyway Mortise Cylinder 1 1/4" length, with Adams Rite Cam	
	<b>CMORTCYL118</b>	6-Pin SCHLAGE "C" Keyway Mortise Cylinder 1 1/8" length, with CLOVER LEAF cam	
	<b>CMORTCYL114</b>	6-Pin SCHLAGE "C" Keyway Mortise Cylinder 1 1/4" length, with CLOVER LEAF cam	
	<b>THMBMORT100</b>	1" Mortise Cylinder with Thumbturn	
	<b>BLNKMORT100</b>	1" Blank Mortise Cylinder	

#### 6 PIN SCHLAGE "C" KEYWAY EUROPEAN PROFILE MORTISE CYLINDERS

 SINGLE CYLINDER DOUBLE CYLINDER SINGLE CYLINDER WITH TURN BATHROOM CYLINDER	<b>KE-SCC-S-A</b>	Single Cylinder 45mm Schlage "C", 6-pin rekeyable	US15
	<b>KE-SCC-D-C</b>	Double Cylinder 60mm Schlage "C", 6-pin rekeyable	
	<b>KE-SCC-D-D</b>	Double Cylinder 70mm Schlage "C", 6-pin rekeyable	
	<b>KE-SCC-C-C</b>	Single Cylinder with turn 60mm Schlage "C", 6-pin rekeyable	
	<b>KE-SCC-C-D</b>	Single Cylinder with turn 70mm Schlage "C", 6-pin rekeyable	
	<b>KE-P-C</b>	Bathroom Cylinder 60mm	
	<b>KE-P-D</b>	Bathroom Cylinder 70mm	

#### MORTISE CYLINDER ACCESSORIES

 CGR175      MCRC-250	<b>MCCR1814</b>	Mortise Cylinder Compression Ring 1/8" to 1/4"	US26D, US10B, 3
	<b>MCCR3812</b>	Mortise Cylinder Compression Ring 3/8" to 1/2"	
	<b>CGR175</b>	Cylinder Guard Ring 1 3/4" base and 1/2" projection with Wave Washer and Spacing Collar	US26D, US10B, US3, 4
	<b>MCRC-250</b>	Free-Spinning Cylinder Guard Ring 1/4"	US3, 15, US26D, US10B

#### STANDARD MORTISE CAMS

												
<b>KC-C1</b> ADAMS RITE	<b>KC-C3</b> YALE	<b>KC-C4</b> RUSSWIN	<b>KC-C5</b> NM SERIES	<b>KC-C8</b> SCHLAGE L	<b>KC-C9</b> SARGENT	<b>KC-S1</b> ADAMS RITE	<b>KC-S3</b> YALE MORTISE	<b>KC-S4</b> RUSSWIN	<b>KC-S5</b> FALCON	<b>KC-S6</b> CRP PANIC TRIM	<b>KC-S7</b> SC SERIES	<b>KC-S9</b> SARGENT



### Best / Falcon 6 & 7 Pin Small Format Interchangeable Cores and Key Blanks (SFIC) Key Sections (A, B, C, D, E, F, G, H, J, K, L, M, Q, TB)

\*All above Keyways in stock for immediate shipment

#### Features:

- Operates on **Best / Falcon small format interchangeable cores** locksets, deadbolts, rim and mortise cylinders
- Operates on all of Cal-Royal's keyed locksets prepared for small format



**Best/ Falcon A, B, C, D, E, F, G, H, J, K, L, M, Q, TB Keyways**

BEST / FALCON 6 & 7 PIN SMALL FORMAT INTERCHANGEABLE CORES & KEY BLANK					
ILLUSTRATION	KEY SECTIONS	UNCOMBINATIONED	MASTER KEYED	KEY BLANKS	FINISH
 6 PIN MASTER KEYED   6 PIN UNCOMBINATIONED   7 PIN MASTER KEYED   7 PIN UNCOMBINATIONED  	 A      B	*6PUC A (6-Pins)	6PCCA-MK (6-Pins)	KBSF-A	US26D, US4
		*7PUC A (7-Pins)	7PCC A-MK (7-Pins)	KBSF-A	
		7PUC B (7-Pins)	7PCC B-MK (7-Pins)	KBSF-B	
	 C      D	7PUC C (7-Pins)	7PCC C-MK (7-Pins)	KBSF-C	
		7PUC D (7-Pins)	7PCC D-MK (7-Pins)	KBSF-D	
	 E      F	7PUC E (7-Pins)	7PCC E-MK (7-Pins)	KBSF-E	
		7PUC F (7-Pins)	7PCC F-MK (7-Pins)	KBSF-F	
	 G      H	7PUC G (7-Pins)	7PCC G-MK (7-Pins)	KBSF-G	
		7PUC H (7-Pins)	7PCC H-MK (7-Pins)	KBSF-H	
	 J      K      L	7PUC J (7-Pins)	7PCC J-MK (7-Pins)	KBSF-J	
		7PUC K (7-Pins)	7PCC K-MK (7-Pins)	KBSF-K	
		7PUC L (7-Pins)	7PCC L-MK (7-Pins)	KBSF-L	
	 M      Q      TB	7PUC M (7-Pins)	7PCC M-MK (7-Pins)	KBSF-M	
		7PUC Q (7-Pins)	7PCC Q-MK (7-Pins)	KBSF-Q	
		7PUC TB (7-Pins)	7PCC TB-MK (7-Pins)	KBSF-TB	
 ICPTT	6PCC-KD	Best, Falcon and Arrow Small Format. 6-Pin Interchangeable Core, Rim and Mortise Cylinder.			US26D, US4
	7PCC-KD	Best, Falcon and Arrow Small Format. 7-Pin Interchangeable Core, Rim and Mortise Cylinder.			
	ICCC	Temporary 6-Pin construction cores			
	ICCC7	Temporary 7-Pin construction cores			
	ICPTT	Plastic thumbturns available for non-secured areas			YELLOW
BEST, FALCON AND ARROW 6 / 7 PIN SMALL FORMAT INTERCHANGEABLE CORE MORTISE AND RIM CYLINDER					
       	308-602	Best, Falcon and Arrow 6 / 7-Pin Small Format Interchangeable Core Rim Cylinder with mounting plate & screws			US26D, US10B, US3
	307-601	Best, Falcon and Arrow 6 / 7-Pin Small Format Interchangeable Core Mortise Cylinder with Adams Rite Cam, 1 ¼" length			
	ICH961387	Best, Falcon and Arrow 6 / 7-Pin Small Format Interchangeable Core Mortise Cylinder, Cloverleaf Cam 1 ¼" length, To be used with Cal-Royal NM Series Mortise locks			

## Large Format 6 Pin Interchangeable Core and Housing (LFIC)

### Features:

- Operates on all Schlage, Sargent LA-LB-LC, Russwin D1-D2-D3-D4, Yale GA large format interchangeable cores locksets, deadbolts, rim and mortise cylinders.

LARGE FORMAT 6 PIN INTERCHANGEABLE CORE CYLINDERS			
ILLUSTRATION	ITEM#	DESCRIPTION	FINISH
 KL-LAD-SA KL-RD1-CR KL-YGA-YA	3000 ICC	6-Pin "C" keyway combined <b>SCHLAGE</b> large format IC core cylinder KA# 111111 with "C" key blanks	US26D, 4
	4000ICCK	6-Pin "C-K" keyway combined <b>SCHLAGE</b> large format IC core cylinder KA# 111111 with "E" key blanks	
	5000ICE	6-Pin "E" keyway combined <b>SCHLAGE</b> large format IC core cylinder KA# 111111 with "E" key blanks	
	1000ICC	6-Pin "C" keyway combined <b>SCHLAGE</b> large format IC core cylinder KD and MK	
	2000 ICC	Temporary 6-Pin Construction Cores (Keyed Alike) will be charged on a separate memo billing for 6 months. On return to the factory credit will be issued.	
	KL-LAD-SA	<b>SARGENT</b> LA-LB-LC LFIC 6-Pin Uncombined	
	KL-RD1-CR	<b>RUSSWIN / CORBIN</b> D1-D2-D3-D4 LFIC 6-Pin Uncombined	
	KL-YGA-YA	<b>YALE</b> GA LFIC 6-Pin Uncombined	
LARGE FORMAT 6 PIN INTERCHANGEABLE CORE MORTISE AND RIM CYLINDER HOUSING			
	6000ICMA	<b>SCHLAGE</b> Large format Interchangeable Core Mortise cylinder housing with Adams Rite Cam 1 ½" long	US26D, US10B, 3
	7000ICMC	<b>SCHLAGE</b> Large format Interchangeable Core Mortise cylinder housing with Cloverleaf Cam 1½" long. To be used with Cal-Royal NM Series Mortise locks. Can also be used with Cal-Royal SC Series Mortise locks (with CAMSCHL-7 Schlage Cam).	
	8000 ICRIM	<b>SCHLAGE</b> Large format Interchangeable Core rim cylinder housing with mounting plate and screw	
	KM-LFH-SA	<b>SARGENT</b> Large format Interchangeable Core Mortise cylinder housing with Adams Rite Cam 1 ½" long. Optional rim pack, <b>26D only (See Price Book page L122)</b>	
	KM-LFH-CR	<b>CORBIN/RUSSWIN</b> Large format Interchangeable Core Mortise cylinder housing with Adams Rite Cam 1 ½" long. Optional rim pack, <b>26D only (See Price Book page L122)</b>	
	KM-LFH-YA	<b>YALE</b> Large format Interchangeable Core Mortise cylinder housing with Adams Rite Cam 1 ½" long. Optional rim pack, <b>26D only (See Price Book page L122)</b>	

### RESTRICTED KEY CONTROL USING CONVENTIONAL REPLACEMENT CYLINDERS (TIER 3)

#### Tier 3 Conventional Replacement Cylinders

Provide restricted key control by utilizing the HSK **Patented** key system, without the cost of anti pick drill and bump features. Tier 3 cylinders can be incorporated into HSK Tier 1 & 2 Master Key and Key systems. HSK Tier 1 & 2 keys will work in Tier 3 cylinders however Tier 3 keys will not work in Tier 1 & 2 HSK Cylinders. Tier 3 keys are covered under our patented key system.

#### Tier 2 High Security Cylinders

Have anti-pick, anti-drill and anti-bump features without the UL 437 Certification. See HSK Section.

#### Tier 1 (UL 437) High Security Cylinders

Have anti pick, anti drill and anti bump features incorporated and have the UL 437 Certification. See HSK Section.

RESTRICTED KEY CONTROL REPLACEMENT CYLINDERS		
KEY-IN-KNOB-LEVER CYLINDERS	SMALL FORMAT IC CYLINDERS	MORTISE CYLINDERS
		
<b>KKCRL-6</b> Key-In-Knob / Lever Replacement Cylinder 6-Pin "0 Bitted" Includes: <ul style="list-style-type: none"> <li>Standard Key / Lever Tailpiece (other tailpieces available)</li> <li>2 keys (See Note B)</li> </ul>	<b>7PUCCRS</b> Uncombined Small Format Interchangeable Core Conventional SFIC, 7-Pin <ul style="list-style-type: none"> <li>Does not include keys See Note C</li> </ul>	<b>KMCRL-4</b> 1 1/4" 6-Pin "0 Bitted" Mortise Cylinder. <ul style="list-style-type: none"> <li>Cylinder comes with Adams Rite Cam - other cams are available as HSK.</li> <li>2 keys</li> <li>Optional Rim Conversion Package Available See Note B &amp; Note E</li> </ul>
SINGLE CYLINDER DEADBOLT KITS	DOUBLE CYLINDER DEADBOLT KITS	MORTISE / RIM COMBO CYLINDER KITS
		
<b>KKCRLSD-6</b> Single Cylinder Deadbolt Replacement Cylinder 6-Pin "0 Bitted" Includes: <ul style="list-style-type: none"> <li>2 keys (See Note B)</li> </ul>	<b>KKCRLDD-6</b> Double Cylinder Deadbolt Replacement Cylinder (2 required) 6-Pin "0 Bitted" Includes: <ul style="list-style-type: none"> <li>2 keys (See Note B)</li> </ul>	<b>KRCRL-6</b> 1 1/4", 6-Pin "0 Bitted" Mortise Cylinder w/ Rim Conversion Package Cylinder comes with Adams Rite Cam Includes: <ul style="list-style-type: none"> <li>2 keys (See Note B)</li> </ul>
KEY BLANKS	NOTES	
 <b>KBCRL-6</b> Key blanks for use with Full Size replacement cylinders  <b>KBCRS-7</b> Key blanks for use with 7PUCCRS Small Format Interchangeable Cores.	<b>Notes</b> <ol style="list-style-type: none"> <li>HSK Tier 1 and 2 Keys will operate with Tier 3 Replacement Cylinders, however the Tier 3 keys will not operate in the Tier 1 and Tier 2 High Security Cylinders.</li> <li>Pinning on Full Size Cylinders (CRL) is the same as Schlage, Pins, Depths &amp; Spacing. No special pinning kits required. For pin spacing, use Scorpion HPC CX5 Card. <b>See page 112 for Scorpion Card.</b></li> <li>Pinning on SFIC Cores (7PUC) is the same as Best, Falcon, Pins and Depth. No special pinning kits required.</li> <li>Cutting keys will have to be done on code machines or duplicators. These keys cannot be cut on punches.</li> <li>Tier 1, 2 &amp; 3 Mortise Cylinders use the same Cams. To order other cams see HSK Cam Sheet.</li> <li>Optional Rim Pack is also sold separately. Part # is "Rim Pack." (Converts Mortise Cylinder to Rim Cylinder)</li> </ol>	

The CRP Securities High Security Key (HSK) **Patented** System utilizes the innovative Sidebar technology to bring superior and manageable Key Control. Together with distinct keyways and controlled means of key blank distribution, the Sidebar offers a superior level of Key Control Management. Keys can be cut on any standard duplicating and code cutting machines. All cylinders can be master keyed (MK), keyed-alike (KA) and keyed-different (KD). Schlage pins and depths for spacing use HPC CX5 Scorpion Card. On SFIC Cards use Best, Falcon, Pins, Depths and Spacing.

The HSK **Patented** System is designed for use in institutions, schools, hospitals, banks and all commercial and residential applications. The Sidebar series keyway is a proprietary design that is distributed in a controlled manner. Card control is implemented which requires authorized signature for valid duplication. We offer a cost-effective level of security comparable to other expensive high security control systems.

Maximum pick resistance is assured in HSK Systems with the utilization of anti-picking side pins and random mushroom top pins secured by cap screws. Standard cylinders are equipped with 2 hardened steel pins (up to 10 for UL-Listed) in the cylinder plug face for the ultimate in drill resistance. This protects the top and bottom pins and the sidebar from drilling attack.

**MEETS**  
The Buy American Act

EXCLUSIVE SIDE BAR TECHNOLOGY			
Unique floating side bar pins Exclusive Keyways Patented Cylinder and Key		Pick-Resistant Spool Pins Anti-Drill Hardened Steel Pins Hardened Silver Nickel Side Bar	
KEY-IN-KNOB-LEVER CYLINDERS	SMALL FORMAT IC CYLINDERS	LARGE FORMAT IC CYLINDERS	MORTISE / RIM COMBO CYLINDERS
			
<b>KIKL5 / KIKL6</b> Deadbolt/Knob/Lever, 5-Pin and 6-Pin, Universal tailpieces for locksets and deadbolts  <b>ULKIKL</b> ANSI/BHMA A156.30 Certified UL 437- Listed for 6-Pin, Universal tailpieces for locksets and deadbolts	<b>SFIC7</b> Small Format, 7-Pin  <b>ANSFIC7</b> ANSI/BHMA A156.30 Certified Small Format, 7-Pin	<b>LFIC6</b> Schlage Large Format 6-Pin  <b>ULLFIC6</b> ANSI/BHMA A156.30 Certified UL 437- Listed Schlage Large Format 6-Pin	<b>MRC118</b> - 1 1/8", 6-Pin  <b>ULMRC118</b> ANSI/BHMA A156.30 Certified UL 437- Listed, 1 1/8", 6-Pin  <b>MRC114</b> - 1 1/4", 6-Pin  <b>ULMRC114</b> ANSI/BHMA A156.30 Certified UL 437- Listed, 1 1/4", 6-Pin
Optional Keyed Different (KD), Keyed Alike (KA), Master Keyed (MK) and 0-bitted (0B)			
KEY BLANKS AND CONTROL KEYS		SFIC HOUSING	LFIC HOUSING
			
<b>KBL6</b> - 6-Pin Key Blank, Standard & Large Format <b>KBLSF7</b> - 7-Pin Small Format Key Blank (SFIC) <b>KCK6</b> - 6-Pin Large Format IC control key (LFIC)	<b>HPC CX5</b> <b>Scorpion Card</b>	<b>MRCSFIC-1-H</b> ANSI/BHMA A156.30 Certified Small Format IC Housing for SFIC7 and ULSFIC7	<b>MRCFLIC-2-H</b> Large Format IC Housing For Schlage Large Format IC LFIC6 and ULLFIC6



## KEY-IN-KNOB / LEVER (KIKL)

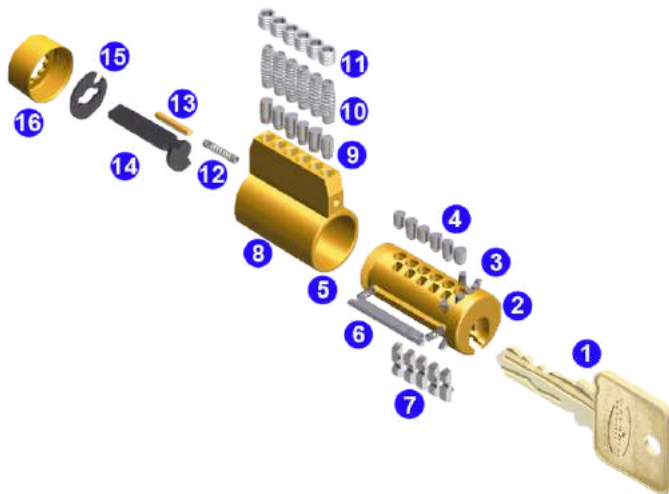
**MEETS**  
*The Buy American Act*

- ANSI / BHMA A156.30 Certified
- UL 437 – Listed
- Retrofits all CRP-Securities cylindrical locksets and deadbolts including other popular brand names
- Unique floating sidebar pins

- Patented Cylinder plug and Key
- Exclusive Keyways
- Pick-Resistant Spool Pins
- Hardened Silver Nickel Side Bar

- 0-Bitted or Keyed Different
- Anti-Drill Hardened Steel Pins (2 – Standard, 9 – UL)
- Comes standard with different tailpieces for universal application and 2 keys

ITEM CODE	DESCRIPTION
<b>KIKL5</b>	Universal 5-Pin Grade 3 Key-In-Knob-Lever Cylinder
<b>KIKL6</b>	Universal 6-Pin Key-In-Knob-Lever Cylinder
<b>ULKIKL6</b>	UL 437- Listed Universal 6-Pin Key-In-Knob-Lever Cylinder



PART NO	PARTS DESCRIPTION	QTY		PART NO	PARTS DESCRIPTION	QTY
		KIKL	MRCC			
1	Key	2	2	17	Cylinder Cover	-
2	Plug	1	1	18	Sleeve	-
3	Anti-Drill Pin	*	*	19	Snap Ring	-
4	Bottom Pin	6	6	20	Plug Control Pin	-
5	Sidebar Pin	2	2	21	Pin Cover	-
6	Sidebar	1	1	22	Operation Hang Pin	-
7	Side Pin	5***	5	23	Cylinder Control Pin	-
8	Cylinder Housing	1	1	24	Operation Pin Spring	-
9	Top Pin	6**	6	25	Operation Spring	-
10	Top Pin Spring	6**	6	26	Cam	1
11	Cap Set Screw	6**	6	27	Cam Screw	1
12	Screw Cap Spring	1	-	28	Plate	1
13	Screw Cap Pin	1	-	29	Steel Ball	2
14	Tail Piece	9	1	30	Bolt	2
15	Washer	1	1	31	Screw	2
16	Screw Cap	2				

\* Number of Anti-Drill Pins dependent on cylinder type (2 for Standard, 9 for UL)

\*\* 5 for KIKL5

\*\*\* 4 for KIKL5

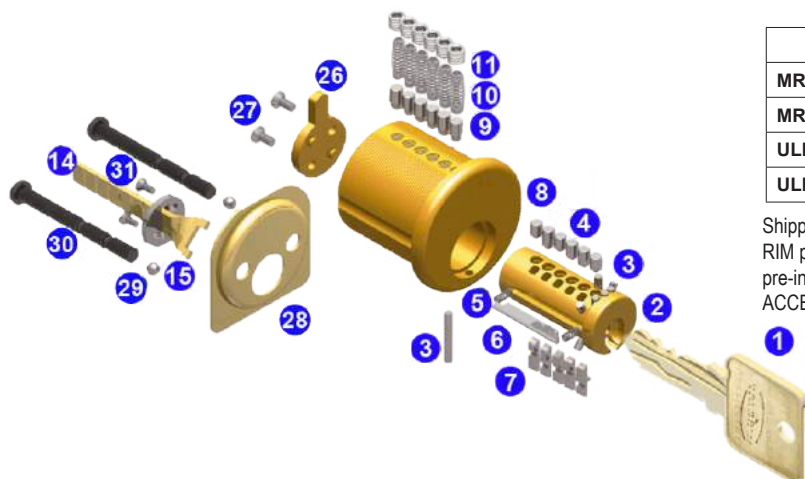
## MORTISE-RIM COMBO CYLINDER (MRCC)

**MEETS**  
*The Buy American Act*

- ANSI / BHMA A156.30 Certified
- UL 437 – Listed
- 1 1/8" and 1 1/4" Mortise and Rim combination saves stocking space and inventory
- Hardened Silver Nickel Side Bar
- Pick-Resistant Spool Pins

- Cylinder rings available for 1" cylinder requirements using MRCC114 or MRC118
- Unique floating sidebar pins
- Exclusive Keyways

- 0-Bitted or Keyed Different
- Anti-Drill Hardened Steel Pins (3 – Standard, 10 – UL)
- Comes standard with 2 keys
- Patented Cylinder and Key



ITEM CODE	DESCRIPTION
<b>MRC114</b>	6-Pin 1 1/4" Mortise-Rim Combination Cylinder
<b>MRC118</b>	6-Pin 1 1/8" Mortise-Rim Combination Cylinder
<b>ULMRC114</b>	UL 437 - Listed 6-Pin 1 1/4" Mortise-Rim Combination Cylinder
<b>ULMRC118</b>	UL 437 - Listed 6-Pin 1 1/8" Mortise-Rim Combination Cylinder

Shipped as a mortise cylinder this is convertible to a RIM cylinder with the standard RIM pack included with the 1 1/4" and 1 1/8" mortise cylinder. An "Adams Rite" cam is pre-installed on all mortise cylinders. Other cam options are available in the KITS & ACCESSORIES section.

## SMALL FORMAT INTERCHANGEABLE CORE (SFIC) CYLINDERS

**MEETS**  
*The Buy American Act*

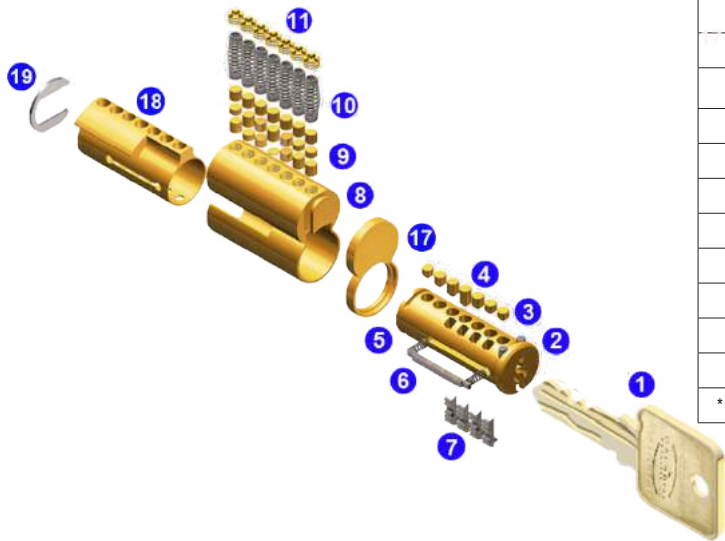
The Small Format Interchangeable Core (SFIC) cylinders are comparable to other popular SFIC in the market such as "BEST" when it comes to functionality, but with the added security of the sidebar mechanism. The location of the sidebar mechanism is inside the plug of the core, so there is no need to dismantle it to combine or pin the cylinder.

- ANSI / BHMA A156.30 Certified
- Retrofits all CRP-Securities cylindrical locksets and deadbolts including other popular brand names
- Unique floating sidebar pins
- Patented Cylinder and Key
- Exclusive Keyways
- Pick-Resistant Spool Pins
- Hardened Silver Nickel Side Bar
- 0-Bitted or Keyed Different
- Anti-Drill Hardened Steel Pins
- (2 – Standard, 4 – UL)
- Comes standard with 2 keys

ITEM CODE	DESCRIPTION
<b>SFIC7</b>	7-Pin Small Format Interchangeable Core Cylinder
<b>ANSFIC7</b>	ANSI / BHMA A156.30 Certified 7-Pin Small Format Interchangeable Core Cylinder

PART NO	PARTS DESCRIPTION	QTY		PART NO	PARTS DESCRIPTION	QTY	
		SFIC	LFIC			SFIC	LFIC
1	Key	2	2	17	Cylinder Cover	1	1
2	Plug	1	1	18	Sleeve	1	-
3	Anti-Drill Pin	*	*	19	Snap Ring	1	-
4	Bottom Pin	7	6	20	Plug Control Pin	-	1
5	Side Bar Pin	2	2	21	Pin Cover	-	1
6	Side Bar	1	1	22	Operation Hang Pin	-	1
7	Side Pin	4	5	23	Cylinder Control Pin	-	1
8	Cylinder Housing	1	1	24	Operation Pin Spring	-	1
9	Top Pin	21	6	25	Operation Spring	-	1
10	Top Pin Spring	7	6	26	Cam	-	-
11	Cap Set Screw	7	-	27	Cam Screw	-	-
12	Screw Cap Spring	-	1	28	Plate	-	-
13	Screw Cap Pin	-	1	29	Steel Ball	-	-
14	Tail Piece	-	-	30	Bolt	-	-
15	Washer	-	-	31	Screw	-	-
16	Screw Cap	-	1				

\* Number of Anti-Drill Pins dependent on cylinder type (2 for Standard, 4 for UL)

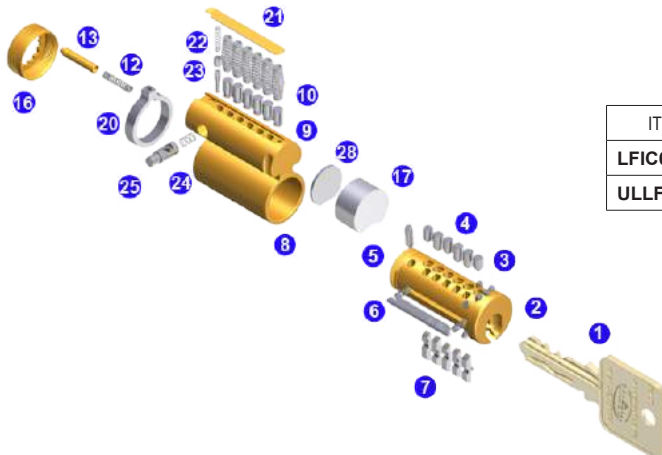


## LARGE FORMAT INTERCHANGEABLE CORE (LFIC) CYLINDERS

**MEETS**  
*The Buy American Act*

The Large Format Interchangeable Core (LFIC) cylinders are configured as "Schlage" format. It comes in a 6-Pin configuration.

- UL 437 – Listed
- Retrofits all CRP-Securities cylindrical locksets and deadbolts including other popular brand names
- Hardened Silver Nickel Side Bar
- Exclusive Keyways
- Pick-Resistant Spool Pins
- Patented Cylinder and Key
- Unique floating side bar pins
- 0-Bitted or Keyed Different
- Anti-Drill Hardened Steel Pins
- (2 – Standard, 9 – UL)
- Comes standard with 2 keys



ITEM CODE	DESCRIPTION
<b>LFIC6</b>	6-Pin Schlage Large Format Interchangeable Core Cylinder
<b>ULLFIC6</b>	UL 437 - Listed 6-Pin Schlage Large Format Interchangeable Core Cylinder

## SMALL FORMAT AND LARGE FORMAT INTERCHANGEABLE CORE CYLINDER HOUSING

**MEETS**  
*The Buy American Act*



**MRCSFIC-1-H**  
ANSI/BHMA A156.30 Certified  
Small Format IC Housing  
for SFIC7 and ULSFIC7



**MRCLFIC-2-H**  
Large Format IC Housing  
for Schlage LFIC6 and ULSFIC7

## HSCRB800 AND HSCRB700 SERIES GRADE 1 HEAVY DUTY HIGH SECURITY DEADBOLT

**MEETS**  
*The Buy American Act*

- Commercial and Residential Application
- Meets ADA requirements specially designed for Barrier Free Application
- Exceeds BHMA / ANSI A156.36, Grade 1 requirements
- ADA Ergonomic Thumbturn
- Available as Single or Double Cylinder
- Free turning, wrench-resistant tapered cylinder ring
- 1" (25mm) throw high-strength steel alloy deadbolt with anti-saw
- Steel mounting plate
- TRIM: Wrought Brass or Stainless Steel
- FACE PLATE: Standard 2 1/4" X 1 1/8"
- DOOR RANGES: Adjustable 1 3/8" (40mm) to 2" (51mm) door thickness
- BORE DIAMETER: 1" for latch, 2 1/8" for lock housing
- STRIKE: 1/8" X 2 3/4" square corner
- Extra security 1" throw bolt with 1/4" free spinning anti-cut through pin
- 2 pcs x 3" screws with wood frame reinforcer greatly strengthens door frames



**HSCRB800**  
SINGLE CYLINDER DEADBOLT



**HSCRB700**  
DOUBLE CYLINDER DEADBOLT

## ALSO AVAILABLE FOR GRADE 2 DEADBOLT CYLINDERS



**HSULT360**



**HSULT362**



**HSCB160**



**HSCB162**

## KEY BLANKS AND CONTROL KEYS

ITEM CODE	DESCRIPTION
KBL5	5-Pin key blank
KBL6	6-Pin key blank
KBLSF7	7-Pin Small Format IC key blank
KCK6	6-Pin Large Format IC control key



**MEETS**  
*The Buy American Act*



**SHTOOL**  
SFIC Housing Shear Tool

## ACCESSORIES

### MORTISE AND KIKL COMPONENTS (UL - LISTED)

	ULCAMADAM-1	ULCAMYALE-2	ULCAMYALE-2A	ULCAMRUSS-3	ULCAMFLCN-4	ULCAMSCHL-7	ULCAMSGNT-8	ULMSHRMTPIN	ALLNSCRW-SS
SSBPIN0	SSBPIN1	SSBPIN2	SSBPIN3	SSBPIN4	SSBPIN5	SSBPIN6	SSBPIN7	SSBPIN8	SSBPIN9

### MORTISE AND KIKL COMPONENTS (NON-UL)

SPIN1	SPIN2	SPIN3	SPIN4	SIDEBAR-1	SIDEBARSPRING	LZTPSD-01	LZTPDD-01	LZTPDD-02
KIKLZTP-01	KIKLZTP-02	KIKLZTP-03	KIKLZTP-04	KIKLZTP-05	KIKLZTP-06	TPWASHER	MSHRMTPIN	
KIKLCAP-01	KIKLCAP-02	KIKPIN	KIKPINSRING	RIMPACK	ALLNSCRW-BLK	KIKSPRING	MRTSPINSRING	
CAMADAM-1	CAMYALE-2	CAMYALE-2A	CAMRUSS-3	CAMFLCN-4	CAMSCHL-7	CAMSGNT-8	CAMSCREW	

### LFIC COMPONENTS

LFCAMADAM-1	LFCAMYALE-2	LFCAMYALE-2A	LFCAMRUSS-3	LFCAMFLCN-4	LFCAMSCHL-7	LFCAMSCRW

### SFIC COMPONENTS



SFICSPIN1	SFICSPIN2	SFICSPIN3	SFICSIDEBAR	SFICBSPR	SFICCLIP	SFICALLNSCRW	SFICSPR

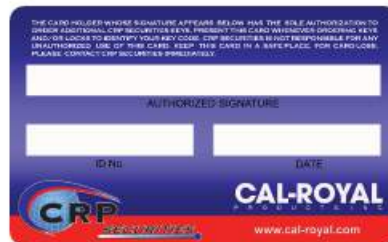


## CONTROLLED KEY DUPLICATION AND DISTRIBUTION

High Security key control is a must. Each cylinder comes with duplicate keys, registration card and authorization card. Dealers agree to keep accurate and responsible keying records in accordance with CRP Securities' recording procedures and agree to maintain a key cutting log in which Dealers will enter for each key that it cuts: the date of the key duplication, the name of the person operating the machine, the number of duplicate keys cut, the name of the person to whom the duplicate key is delivered or, if mis-cut, the fact will be recorded and the mis-cut blank will be stored in inventory until it can be counted by CRP Securities personnel and the remaining number of CRP High Security key blanks in Dealer's inventory.

These are just some of the procedures that are enforced to ensure and maintain the high level of security provided by CRP High Security Key System.

 <b>CAL-ROYAL</b> PRODUCTS, INC.	 <b>CRP</b> SECURITIES	<div style="border: 1px solid black; height: 40px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; padding: 5px; text-align: center;"> <b>FILE NUMBER</b> </div>
<h2 style="margin: 0;">AUTHORIZATION CARD</h2>		
<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px; text-align: center;"> <i>Authorized Signatures</i> </div> <div style="border: 1px solid black; padding: 5px;"> <p>1. _____ NAME</p> <p>1. _____ SIGNATURE</p> <p>2. _____ NAME</p> <p>2. _____ SIGNATURE</p> <p style="text-align: center; margin-top: 20px;">DATE</p> </div>	<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px; text-align: center;"> <i>Customer</i> </div> <div style="border: 1px solid black; padding: 5px;"> <p>_____ COMPANY NAME</p> <p>_____ STREET ADDRESS</p> <p>_____ CITY</p> <p>_____ STATE</p> <p>_____ ZIP</p> </div>	
<p>This card serves as an authorization to purchase additional CRP Securities keys and/or locks based on assigned codes. Locksmith must be notified if there are any changes in the signatures on a company letterhead bearing one of the original signatures.</p>		



The specified Locksmith hereby authorizes its officers, employees, and agents to accept the authorized signatures appearing on the reverse side of this card to avail of services and products from CRP Securities of sensitive character such as Master Keys, Restricted Keys, Locks, etc. It is the Locksmith's responsibility to extend only under an admissible decision that an authenticated signature on any order in such events has been made by the individual whose signature is the above-mentioned authorized signature.

## KEY CUTTING LOG SHEET

[illegible]

#### CRP COMBINATION "COMBI" KEY CONTROL CYLINDER PROGRAM

COMBI is a new key system developed by Cal-Royal Products, Inc. and CRP Securities to resolve key systems using different lock manufacturers' products to work together. Using patented keyway design, it allows for existing keying systems of different lock manufacturers to be integrated into one keyway, while maintaining existing hierarchy of key control and key combinations.

CRP COMBI CYLINDER PROGRAM			
KEY-IN-KNOB-LEVER CYLINDERS	SMALL FORMAT IC CYLINDERS	MORTISE CYLINDERS	
			
<b>KK-COS-NS</b> Key-In-Knob / Lever Replacement Cylinder 6-Pin "0-bitted" Includes: <ul style="list-style-type: none"><li>Standard Key / Lever Tailpiece (other tailpieces available)</li><li>2 keys</li><li>See Note A below for pinning info</li></ul>	<b>6PUC0-COS</b> Uncombined Small Format Interchangeable Core Conventional SFIC, 6-Pin <ul style="list-style-type: none"><li>Does not include keys See Note B below for pinning info</li></ul>	<b>KM-COS-4</b> 1 1/4" 6-Pin "0-bitted" Mortise Cylinder. <ul style="list-style-type: none"><li>Cylinder comes with Adams Rite Cam - other cams are available as HSK.</li><li>2 keys</li><li>Optional Rim Conversion Package Available</li><li>See Note A below for pinning info</li></ul>	
LARGE FORMAT INTERCHANGEABLE CORES			
SCHLAGE	YALE	SARGENT	CORBIN/RUSSWIN
			
<b>KL-COS-SC</b> Schlage Large Format 6-Pin "0-bitted" Includes: <ul style="list-style-type: none"><li>2 keys</li><li>See Note A below for pinning info</li></ul>	<b>KL-COS-YA</b> Yale Large Format 6-Pin "0-bitted" Includes: <ul style="list-style-type: none"><li>2 keys</li><li>See Note A below for pinning info</li></ul>	<b>KL-COS-SA</b> Sargent Large Format 6-Pin "0-bitted" Includes: <ul style="list-style-type: none"><li>2 keys</li><li>See Note A below for pinning info</li></ul>	<b>KL-COS-CR</b> Corbin / Russwin Large Format 6-Pin "0-bitted" Includes: <ul style="list-style-type: none"><li>2 keys</li><li>See Note A below for pinning info</li></ul>
EUROPEAN PROFILE CYLINDERS			
HALF CYLINDER	DOUBLE CYLINDER	CYLINDER X THUMBTURN	
			
<b>KE-COS-S</b> <ul style="list-style-type: none"><li>1 3/4" (45mm ) length, 6-Pin standard</li><li>Base material: Brass</li></ul> Includes: <ul style="list-style-type: none"><li>2 keys</li><li>See Note A below for pinning info</li></ul>	<b>KE-COS-D</b> <ul style="list-style-type: none"><li>2 3/4" (70mm ) length, 6-Pin standard</li><li>Base material: Brass</li></ul> Includes: <ul style="list-style-type: none"><li>2 keys</li><li>See Note A below for pinning info</li></ul>	<b>KE-COS-C</b> <ul style="list-style-type: none"><li>2 3/4" (70mm ) length, 6-Pin standard</li><li>Base material: Brass</li></ul> Includes: <ul style="list-style-type: none"><li>2 keys</li><li>See Note A below for pinning info</li></ul>	

#### NOTES

A. Use Combi C2 or C4 full size pins for all COMBI Cylinders **except** SFIC. See page 119.









B. Keys must be cut on code machine with Best, Falcon, Depths and Spacing. Keys cannot be punched.



## CRP COMBI PINNING KITS

**COMBI C2 / C4 Full Size Pinning Kit**  
**DUAL COMBI A2 / A4 / C2 / C4**  
**Small Format & Full Size Pinning Kit**

### ACCESSORIES

A2 SFIC PINS	A4 SFIC PINS	C2 FULL SIZE PINS	C4 FULL SIZE PINS
(2-19) Master Pins 	(1-11) Master Pins 	(2-9) Master Pins 	(1-5) Master Pins 
<ul style="list-style-type: none"> <li>• KP-I-2M • KP-I-8M • KP-I-14M</li> <li>• KP-I-3M • KP-I-9M • KP-I-15M</li> <li>• KP-I-4M • KP-I-10M • KP-I-16M</li> <li>• KP-I-5M • KP-I-11M • KP-I-17M</li> <li>• KP-I-6M • KP-I-12M • KP-I-18M</li> <li>• KP-I-7M • KP-I-13M • KP-I-19M</li> </ul>	<ul style="list-style-type: none"> <li>• KP-I4-1M • KP-I4-6M</li> <li>• KP-I4-2M • KP-I4-8M</li> <li>• KP-I4-3M • KP-I4-9M</li> <li>• KP-I4-4M • KP-I4-10M</li> <li>• KP-I4-5M • KP-I4-11M</li> </ul>	<ul style="list-style-type: none"> <li>• KP-C2-2M • KP-C2-6M</li> <li>• KP-C2-3M • KP-C2-7M</li> <li>• KP-C2-4M • KP-C2-8M</li> <li>• KP-C2-5M • KP-C2-9M</li> </ul>	<ul style="list-style-type: none"> <li>• KP-C4-1M • KP-C4-4M</li> <li>• KP-C4-2M • KP-C4-5M</li> <li>• KP-C4-3M</li> </ul>
(0-9) Bottom Pins 	(0-5) Bottom Pins 	(0-9) Bottom Pins 	(0-5) Bottom Pins 
<ul style="list-style-type: none"> <li>• KP-I-0B • KP-I-5B</li> <li>• KP-I-1B • KP-I-6B</li> <li>• KP-I-2B • KP-I-7B</li> <li>• KP-I-3B • KP-I-8B</li> <li>• KP-I-4B • KP-I-9B</li> </ul>	<ul style="list-style-type: none"> <li>• KP-I4-0B • KP-I4-3B</li> <li>• KP-I4-1B • KP-I4-4B</li> <li>• KP-I4-2B • KP-I4-5B</li> </ul>	<ul style="list-style-type: none"> <li>• KP-C2-0B • KP-C2-5B</li> <li>• KP-C2-1B • KP-C2-6B</li> <li>• KP-C2-2B • KP-C2-7B</li> <li>• KP-C2-3B • KP-C2-8B</li> <li>• KP-C2-4B • KP-C2-9B</li> </ul>	<ul style="list-style-type: none"> <li>• KP-C4-0B • KP-C4-3B</li> <li>• KP-C4-1B • KP-C4-4B</li> <li>• KP-C4-2B • KP-C4-5B</li> </ul>
<b>KP-I</b> • SFIC pins for keying (same as BEST A2)	<b>KP-I4</b> • SFIC pins for keying (same as BEST A4)	<b>KP-C2</b> • Full size pins C2 large diameter cylinders	<b>KP-C4</b> • Full size pins C4 large format diameter cylinders

### PARTS KIT FOR KK-COS-NS

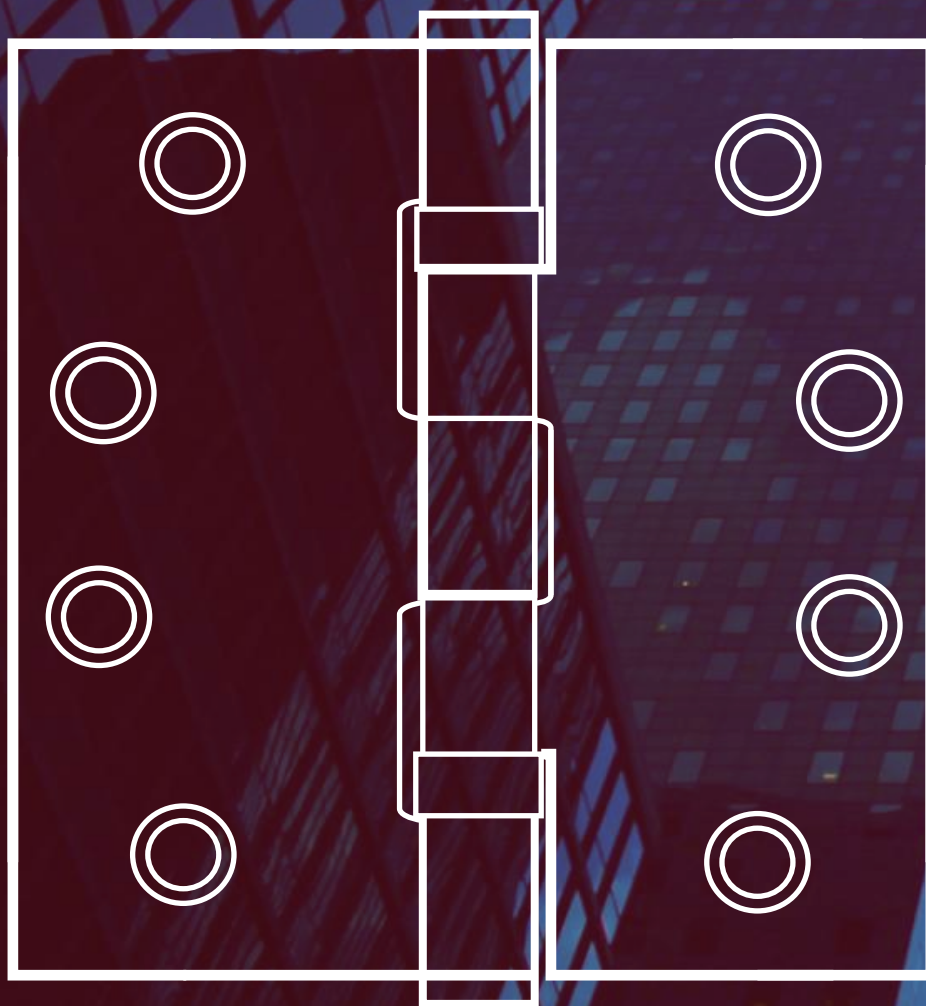
 <p>KIKLCAP-01 KIKLCAP-02 LZTPSD-01 LZTPDD-01 LZTPDD-02 TPWASHER</p> <p>KIKLZTP-01 KIKLZTP-02 KIKLZTP-03 KIKLZTP-04 KIKLZTP-05 KIKLZTP-06</p>						<b>KEYS</b>	
<b>KT-H-PK</b> <ul style="list-style-type: none"> <li>• KIKLCAP-01 • LZTPDD-01 • KIKLZTP-01 • KIKLZTP-04</li> <li>• KIKLCAP-02 • LZTPDD-02 • KIKLZTP-02 • KIKLZTP-05</li> <li>• LZTPSD-01 • TPWASHER • KIKLZTP-03 • KIKLZTP-06</li> </ul>						 <b>KBCOS6</b> COMBI 6-Pin key blank	 <b>COSCK</b> COMBI 6-Pin Large Format IC control key

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# HINGES







**LIFETIME  
WARRANTY**

**BHMA**<sup>TM</sup>  
**CERTIFIED**  
Be Safe. Be Secure. Look for the Mark.



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# CAL-ROYAL

P R O D U C T S, I N C.

## Lifetime Warranty on Commercial Grade Hinges

### BHMA CERTIFIED

CAL-ROYAL'S complete line of Commercial, Residential and Continuous Gear Hinges offer unsurpassed value, quality and service. Engineered to meet or exceed industry standards that customers have come to expect.

### GENERAL INFORMATION

#### ANSI Products Standards

CAL-ROYAL HINGES complies with ANSI A156.1 (Butts and Hinges), A156.7 (Template hinge dimensions), A156.17 (Self Closing Hinges and Pivots), A156.18 (materials and Finishes). Plain Bearing Standard Weight

For Standard weight doors receiving low frequency service.

Template hinges are furnished with all machine and wood screws.

#### Ball Bearing Standard Weight

For Standard weight doors receiving average frequency service.

Template hinges are furnished with all machine and wood screws.

#### Ball Bearing Heavy Weight

For Heavy Doors (such as entrance and corridors) or doors receiving high frequency service. Inner edges are beveled to conform the shape of barrel and to make close fitting joints. Heavy weight template hinges are equipped with all machine and one half wood screws.

#### Half Surface

One leaf is mortised in the frame and the other is surface applied to the face of the door (wood door with wood frame or metal core door with hollow metal frame).

#### Half Mortise

One leaf is mortised in the door and the other is surface applied to the frame (hollow metal door with channel iron frame).

#### Swing Clear

For use where conditions require a completely clear opening when door is opened to 90° angle. Inner edges of leaves are beveled to conform to shape of barrel and to make close fitting joints. Phillips head threaded plug permits hinge to be reversed to suit application.

#### Full Mortise

Both leaves are mortised. One leaf in the door and one leaf in the frame (wood door or hollow metal door with wood or hollow metal frame).

#### Full Surface

Both leaves are applied to the surface, one to the door and the other to the frame (metal core door or hollow metal door with channel iron frame).

#### Materials and Finishes

Wrought Steel: Satin finishes or highly polished and plated. All plated finishes have a clear baked finish.

#### Wrought Stainless Steel:

Satin finish non-ferrous, non-corrosive grade 304.

**Stock Finishes:** Refer to our price list for stock finishes.

Materials such as solid brass are available on request.

Prefix SB before part #.

#### Tips

**Button:** All hinges have flat button tip, except concealed ball bearing hinges which are flush.

**Non-removable Pins:** Removable threaded set screw in barrel prevent pin from being removed when door is closed. Available on all hinges. Use N.R.P. for ordering.

**Special Pins:** Solid brass pins, stainless steel pins and Hospital Tips are available on request. Decorative tips are also available on 4 1/2" x 4 1/2", 4" x 4", 3 1/2" x 3 1/2" commercial hinges and 4" x 4" and 3 1/2" x 3 1/2" residential hinges. Add BT (Ball Tip), ST (Steeple Tip) before part number for specification. Other Size Hinge tips also available based on factory order.



STEEPLE TIP

BALL TIP

HOSPITAL TIP

ACORN TIP

URN TIP

#### Packaging

All hinges are individually wrapped to protect the finish.

Commercial grade hinges are packed 3 pieces per inner box with all machine and all wood screws. Residential hinges are packed one pair per box, bulk assembled or unassembled. Spring hinges are packed 2 pieces per box. Refer to price list for carton quantities.



## BASIC INFORMATION

### Types of Hinges:

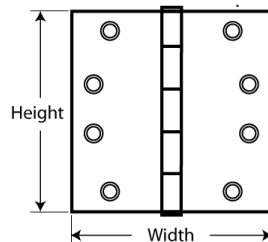
**Full Mortise** – Both leaves are mortised. One leaf on the frame and one on the door.

**Half Mortise** – One leaf is mortised in the door and the other is surface applied to the frame.

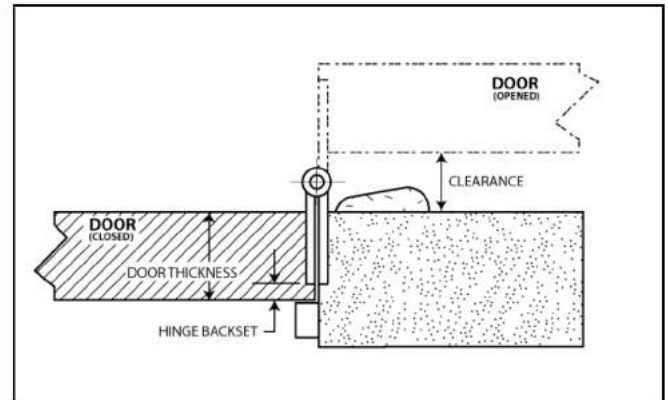
**Full Surface** – Both leaves are applied to the surface. One to the door and the other to the frame which may be a metal core door or hollow metal door with channel iron frame.

**Half Surface** – One leaf is mortised to the frame and the other is surface applied to the face of the door which may be a wood door with wood frame or a metal core door with hollow metal frame.

**Hinge Size Configuration** - Hinges are measured by its height and its width. The first dimension is the height and the second is the width. Width is measured when the hinge is in the open position as shown in the figure below



### Determining the width of hinges needed:



$$\text{WIDTH} = \text{DT} - \text{HB} \times 2 + \text{CR}$$

DT - DOOR THICKNESS

HB - HINGE BACKSET

CR - CLEARANCE REQUIRED

### Determining the number of hinges needed:

Generally there should be 1 hinge for every 30" of door height. Refer to table below for quick reference.

HEIGHT OF DOOR	NUMBER OF HINGES
60" or below	2
61" – 90"	3
91" – 120"	4

If the result of the formula above would correspond to a non standard hinge, then go to the next larger hinge width.

### RECOMMENDED HINGE BACKSET:

For doors 2 1/4" thick and below, 1/4" (6.4 mm) backset is recommended.

For doors over 2 1/4", 3/8" (9.5 mm) backset is recommended.

### Determining the height of hinges needed:

GUIDELINES FOR HINGE HEIGHT SELECTION			
DOOR WEIGHT, lbs.	DOOR WIDTH	DOOR THICKNESS	FULL MORTISE HINGE HEIGHT
75	32"	1 3/8"	3 1/2"
	36"	1 3/8"	4"
150	32"	1 3/8"	4"
	36"	1 3/8"	4"
150	32"	1 3/4"	4 1/2"
	36"	1 3/4"	4 1/2"
175	32"	1 3/8"	5"
	36"	1 3/8"	5"
175	36"	1 3/4"	5"
	48"	1 3/4"	5"
230	36"	1 3/8"	6"
	48"	1 3/8"	6"
230	36"	1 3/4"	6"
	48"	1 3/4"	6"

### Selecting the Proper weight and Bearing Type:

Standard Weight - Plain Bearing

Standard Weight - Ball Bearing, Concealed bearing

Heavy Weight - Ball Bearing, Concealed bearing

Considerations in determining Weight and Bearing type:

- 1) Weight of Door
- 2) Frequency of Use
- 3) Frame
- 4) Door Hardware

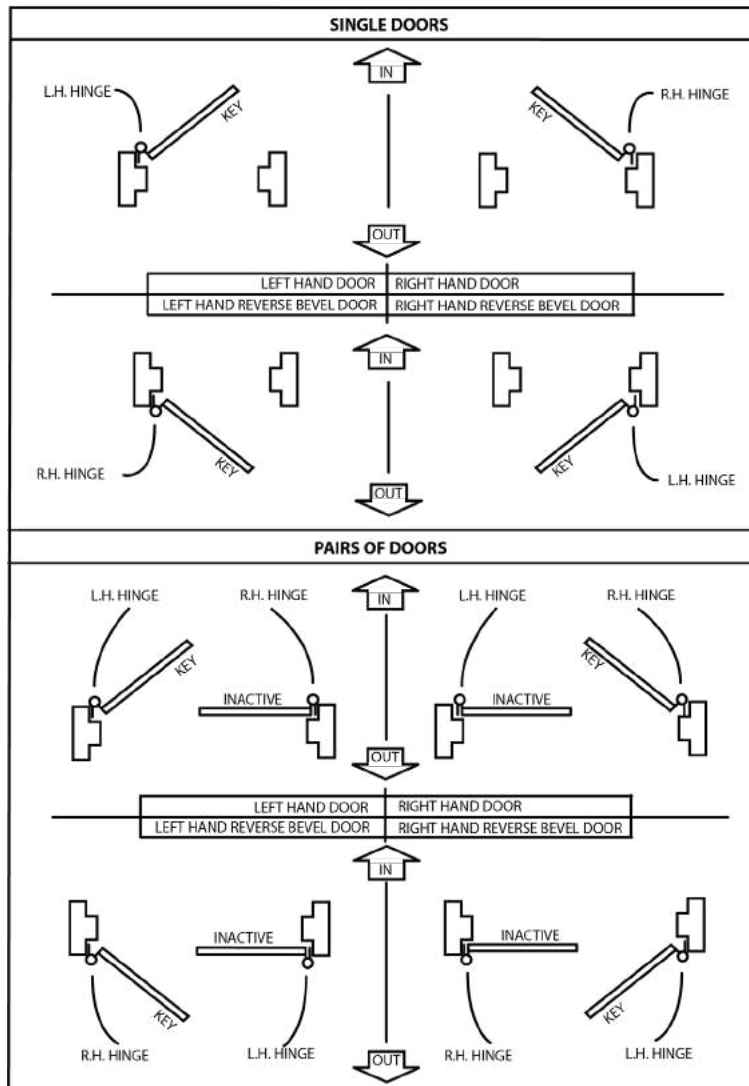
► Always use ball bearing or concealed bearing hinges for doors with door closers and in all fire rated openings. Heavy Weight doors and high frequency doors should use heavy weight ball bearing or concealed bearing hinges.

► Use ball bearing or concealed bearing hinge with spring hinges.

## BASIC INFORMATION

### Determining handing:

Some hinge applications require correct hinge handing. It is therefore necessary to distinguish what type of hinge handing a particular application may require. Shown in the illustration below, the suffix L.H. (left hand) and R.H. (right hand) would classify their handing.



The hand of a hinge is determined from the outside of the door to which it is applied. This is usually the keyed side. When standing outside, if the door opens away to the right, it requires a right-hand hinge also referred to as RH. If it opens away to the left, then it requires a left-hand hinge also termed as LH.

When standing outside, if the door opens towards the right, it requires a left-hand hinge, also referred to as right hand reverse bevel or RHRB. If it opens towards the left, it will require a right-hand hinge, also referred to as left hand reversed bevel or LHRB.

### Guidelines for Frequency of Door Usage:

BUILD TYPE	DAILY USAGE	YEARLY USAGE	HINGE TYPE
<b>High Frequency/ Heavy Weight Door</b>			<i>Heavy Weight</i>
Large Department Store Entrance	5,000	1,825,000	
Hospital Corridor and Surgical Doors	5,000	1,825,000	
Large Office Building Entrance	4,000	1,460,000	
School Entrance	1,250	356,200	
School Toilet Door	1,250	356,200	
Office Stairwell	500	182,500	
Office Building Toilet Door	400	118,000	
<b>Medium Frequency/ Medium Weight Door</b>			<i>Standard Weight</i>
School Corridor Door	100	36,500	
Hospital Consultation Rooms	100	36,500	
Office Building Corridor Door	80	15,000	
Store Toilet Door	60	15,000	
Storage Room	50	18,250	
<b>Low Frequency/ Light Weight Door</b>			<i>Plain bearing</i>
Residential Entrance	30	10,950	
Interior Residential	20	7,300	

### Minimum Architectural Hinge Requirements:

Grade 1:	2,500,000	Heavy Weight Ball and Concealed Bearing
Grade 2:	1,500,000	Standard Weight Ball & Concealed Bearing
Grade 3:	350,000	Light Weight Plain Bearing

### Type of materials:

**Steel** – Durable, has great strength but is highly corrosive. Rusting will result if the material is used in an uncontrolled environment, like places near the sea where the atmosphere is salty. Steel is best to use in a stable contained surroundings such as inside a building where the temperature and humidity are controlled. Steel hinges can be used on listed fire rated or labeled door openings.

**Stainless Steel** – This material is also durable and has great strength, but does not corrode like steel. This is best to use on highly corrosive areas. A 316 grade stainless steel or clear coat over 304L is recommended. Stainless steel can also be polished to a satin or bright finish. Stainless steel hinges can also be used on listed fire rated or labeled door openings.

**Brass** – Like stainless steel, brass is also non-corrosive and rust resistant. And although brass has less strength compared to steel and stainless steel, it is very decorative. It is often used in applications where appearance is taken into consideration over strength as it can be polished and plated in various finishes. But due to its low melting point, brass may not be used on listed fire rated door openings.

## BASIC INFORMATION

### Guidelines for Estimating Door Weight:

(Weight in Pounds per Square Foot)

DOOR THICKNESS	1 5/8"	1 3/4"	2"	2 1/4"	2 1/2"
Material					
Hollow Metal 18 gauge	4.3	4.6			
Hollow Metal 16 gauge	5.4	5.8			
Hollow Metal 15 gauge	6.2	6.5			
Hollow Metal 14 gauge	7.0	7.3			
Hollow Metal 13 gauge	8.3	8.7			
Hollow Metal 12 gauge	9.9	10.2			
Hollow Metal 11 gauge	11.2	11.6			
Hollow Metal 10 gauge	12.8	13.0			
Ash	4.5	5.3	6.0	6.8	7.5
Birch	3.8	4.3	5.0	5.6	6.3
Fir	3.0	3.5	4.0	4.5	5.0
Mahogany	4.5	5.3	6.0	6.8	7.5
Oak	6.0	7.3	8.0	9.0	10.0
White Pine	3.0	3.5	4.0	4.0	5.0
Mineral Core		4.0			

### Types of Finishes:

All steel and brass material hinges can be plated to match the available finishes that are listed in the American National Standards Institute or ANSI, standard ANSI/BHMA A156.18 Materials and Finishes.

### Anti-rust finishes:

When using steel based materials hinges, special finishing procedures can be done which will improve and add protection to the product. A nickel undercoat may be applied prior to plating. But although this will give added protection and make it rust resistant, it is still not considered rust proof. Stainless steel or brass which is a non-ferrous material may be used if a true rust-resisting hinge is needed.

### OUR SEAL OF QUALITY



**ALL HINGES ARE STAMPED WITH CRP LOGO. ALSO AVAILABLE W/O LOGO. PREFIX "UN" WHEN ORDERING. REFER TO PRICE LIST FOR STOCK ITEMS.**

### Electrified Hinges:

The Electrified Hinge made door wiring easy, safe and reliable. Power can now be transferred from the frame into the door either exposed or concealed.

With the introduction of electrified hinges, we are now able to monitor the position of the door, transfer power and incorporate both functions into a single hinge. More so, we now have the ability to electrify other hardware items such as exit devices and electrified locks.

Full mortise hinges are highly recommended for modification purposes. However, monitoring can be supplied on a half surface hinge if the need arises. It is also recommended that the Center Hinge Location be used with all electrically modified hinges.

The maximum voltage that is allowed in electrified hinges is 48 volts. Higher voltage is not allowed because of potential dangers. The current (amperes) should also be taken into consideration.



**FOR QUICK CONNECT OPTION ON 8-WIRE & 12-WIRE ELECTRIFICATION, PREFIX "ELQC" BEFORE ITEM #.**



**molex**  
MICRO-FIT 3.0" INTERCONNECT SYSTEM AVAILABLE TO RETROFIT COMMON QUICK CONNECTION SYSTEMS SUCH AS ELECTROLYNX® OR ALLEGION CONNECT®.

4-, 6- and 8-wire available on all standard weight, heavy weight and concealed ball bearing hinges in all sizes. Specify Hinge.

### ENERGY TRANSFER HINGES FOR CYLINDRICAL LOCKS, MORTISE LOCKS AND PANIC TRIMS

Prefix **ELE** + (**No. of wires**) before **ITEM #**

**ELE4: 4 Wires** - 26 gauge - 1A@24V (per pair)

**ELE6: 6 Wires** - 28 gauge - 1A@24V (per pair)

**ELE8: 8 Wires** - 28 gauge - 1A@24V (per pair) - **ELQC8:** (For QC Option)

**ELE12: 12 Wires** - 28 gauge - 1A@24V (per pair) - **ELQC12:** (For QC Option)

### ENERGY TRANSFER HINGES FOR ELECTRIFIED PANIC BAR (ELR)

Prefix **ELELR** + (**No. of wires**) before **ITEM #**

**ELELR4: 2 Wire** -18 gauge, 5A (16A in-rush for 300 ms.) + **2 Wire** -26 gauge

**ELELR6: 2 Wire** -18 gauge, 5A (16A in-rush for 300 ms.) + **4 Wire** -28 gauge

**ELELR8: 2 Wire** -18 gauge, 5A (16A in-rush for 300 ms.) + **6 Wire** -28 gauge

**ELELR12: 2 Wire** -18 gauge, 5A (16A in-rush for 300 ms.) + **10 Wire** -28 gauge

**\*\*Each 18 AWG wire is rated 24 Volts AC/DC at 5 amps max. continuous, or 16 amps max. current with 300 msec. minimum "off" time between pulses, for 10 seconds**

**NOTE: All hinges are sold with a minimum order quantity (MOQ) equal to or exactly divisible by the inner box quantity specified in the catalog or price book.**



**FULL MORTISE TYPE HINGES**

Heavy Weight • Four Ball Bearing • Template

ITEM #	SIZE	GAUGE
BB5500	5" x 5"	.190
BB5210	5 x 4 1/2"	.190
BB5254	5" x 4"	.190
BB5200	4 1/2" x 4 1/2"	.180
BB52454	4 1/2" x 4"	.180
BBRC5835	3 1/2" x 3 1/2"	.123
Size: Maximum of 8" x 8" available upon request		Material: Steel, Stainless Steel, Brass
Size of FH Screws		Pieces Per Box
Machine	Wood	
1/2" x 12 - 24	1" x 12	3
		Pieces Per Carton
		24



**FULL MORTISE TYPE HINGES**

Standard Weight • Two Ball Bearing • Template

<b>Two Ball Bearing, 1/4" Radius Round Corner</b>		
ITEM #	SIZE	GAUGE
RCBB31 N.R.P.	4 1/2" x 4 1/2"	.134
<b>Two Ball Bearing, 1/8" Radius Round Corner</b>		
RCBB454 N.R.P.	4 1/2" x 4"	.190
<b>Two Ball Bearing, Square Corner</b>		
BB55	5" x 5"	.146
BB545	5 x 4 1/2"	.146
BB54	5" x 4"	.146
BB31	4 1/2" x 4 1/2"	.134
BB454	4 1/2" x 4"	.134
BBSC56	4" x 4"	.130
BBSC77*	3 1/2" x 3 1/2"	.123
BBSC33*	3" x 3"	.123
Size: Maximum of 6" x 6" available upon request		Material: Steel, Stainless Steel, Brass
Size of FH Screws		Pieces Per Box
Machine	Wood	
1/2" x 12 - 24	1 1/4" x 12	3
		Pieces Per Carton
		48

\*Supplied with 1/2" x 10-24 machine screws and 1 x 9 wood screws, 2 pieces/inner box 100 pieces/carton



**MADE IN TAIWAN HINGES THAT MEET THE BUY AMERICAN ACT**

Full Mortise Type

<b>Two Ball Bearing • Standard Weight</b>		
ITEM #	SIZE	GAUGE
TABB31	4 1/2" x 4 1/2"	.134
TABB545	5" x 4 1/2"	.146
<b>Four Ball Bearing • Heavy Weight</b>		
TABB5200	4 1/2" x 4 1/2"	.180
Material: Steel, Stainless Steel		
Size of FH Screws		Pieces Per Box
Machine	Wood	
1/2" x 12 - 24	1 1/4" x 12	3
		Pieces Per Carton
		48



**FULL MORTISE TYPE HINGES**

Standard Weight • Plain Bearing • Template

ITEM #	SIZE	GAUGE
TBH55	5" x 5"	.146
TBH30	4 1/2" x 4 1/2"	.134
TBH454	4 1/2" x 4"	.134
TBHSC55	4" x 4"	.130
TBHSC77*	3 1/2" x 3 1/2"	.123
TBHSC33*	3" x 3"	.123
Size: Maximum of 6" x 6" available upon request		Material: Steel, Stainless Steel, Brass
Size of FH Screws		Pieces Per Box
Machine	Wood	
1/2" x 12 - 24	1 1/4" x 12	3
		Pieces Per Carton
		48

\*Supplied with 1/2" x 10-24 machine screws and 1 x 9 wood screws, 2 pieces/inner box 100 pieces/carton

NOTE: All hinges are sold with a minimum order quantity (MOQ) equal to or exactly divisible by the inner box quantity specified in the catalog or price book.





FULL MORTISE TYPE HINGES • Standard Weight • Template			
¼" Radius • Plain Bearing			
ITEM #	SIZE		GAUGE
TBHRC44	4" x 4"		.130
TBHRC66*	3 ½" x 3 ½"		.123
⅝" Radius • Plain Bearing • Non Template			
TBHRC5844	4" x 4"		.130
¼" Radius • Two Ball Bearing			
BBRC45	4" x 4"		.130
⅝" Radius • Two Ball Bearing • Non Template			
BBRC5844	4" x 4"		.130
BBRC5835	3 ½" x 3 ½"		.123
Material: Steel, Stainless Steel, Brass			
Size of FH Screws		Pieces Per Box	Pieces Per Carton
Machine	Wood	3	48
½" x 12 – 24	1" x 12		
* Supplied with ½" x 10-24 machine screws and 1" x 9 wood screws. 2 pieces/inner box 100 pieces/carton			



CONCEALED BALL BEARING HINGES • Full Mortise Type • Template			
Standard Weight Hinges			
ITEM #	SIZE	GAUGE	
BB2255	5" x 5"	.145	
BB2200	4 ½" x 4 ½"	.134	
BB22454	4 ½" x 4"	.134	
Heavy Weight Hinges			
BB7755	5" x 5"	.190	
BB3300	4 ½" x 4 ½"	.190	
BB1000	4 ½" x 4"	.190	
Special sizes available upon request		Material: Steel, Stainless Steel, Brass	
Size of FH Screws		Pieces Per Box	Pieces Per Carton
Machine	Wood	3	24
½" x 12 - 24	1 ½" x 12		







FULL SURFACE TYPE HINGES Standard Weight Ball Bearing • Template			
<b>ITEM #</b>	<b>SIZE</b>		<b>GAUGE</b>
FSHBB45 N.R.P.	4 1/2"		.134
Non-Removable Pin		Material: Steel, Stainless Steel	
Size of FH Screws		Pieces Per Box	Pieces Per Carton
Jamb	Door	3	24
1/2" x 12 - 24OH	2 x 1/4" - 20 OH		





HALF MORTISE TYPE HINGES Standard Weight • Ball Bearing • Template			
<b>ITEM #</b>	<b>SIZE</b>		<b>GAUGE</b>
HMBB4100 N.R.P.	4 1/2"		.134
Size: Available up to 5" upon request		Material: Steel, Stainless Steel Non-Removable Pin	
Size of FH Screws		Pieces Per Box	Pieces Per Carton
Jamb	Wood	3	48
1/2" x 12 - 24OH	1/2" x 12 - 24MS		
	1 1/4" x 12WS		

NOTE: All hinges are sold with a minimum order quantity (MOQ) equal to or exactly divisible by the inner box quantity specified in the catalog or price book.


	<b>HALF SURFACE TYPE • Standard Weight Hinges • Ball Bearing • Template</b>			
	<b>ITEM #</b>	<b>SIZE</b>	<b>GAUGE</b>	
	HSBB4900 N.R.P.	4 1/2"	.134	
	Size: Available up to 5" upon request		Material: Steel, Stainless Steel Non-Removable Pin	
	Size of FH Screws		Pieces Per Box	Pieces Per Carton
	Jamb 1/2" x 12 - 24 FH	Door 2" x 1/4" - 20 OS	3	48
	<b>SWING CLEAR • Full Mortise Type • Ball Bearing • Template</b>			
	<b>Two Ball Bearing, Standard Weight, 5/8" Radius Round Corner</b>			
	<b>ITEM #</b>	<b>SIZE</b>	<b>GAUGE</b>	
	BB40058	4"	.130	
	BB35058	3 1/2"	.123	
	<b>Two Ball Bearing, Standard Weight, Square Corner</b>			
	BB600	4 1/2"	.134	
	BB400	4"	.130	
	BB350	3 1/2"	.123	
	Hinge Size	Size of Screws		Pieces Per Carton
		Machine	Wood	
	3 1/2"	10-24 x 1/2	10 x 1 F.H.	50
	4"	12-24 x 1/2	12 x 1 F.H.	
	<b>Four Ball Bearing, Heavy Weight Hinges</b>			
	BB800	4 1/2"	.190	
	Size: Available up to 5" upon request		Material: Steel, Stainless Steel	
	Hinge Size	Size of FH Screws		Pieces Per Carton
		Jamb	Door	
	4 1/2"	1/2" x 12 - 24	1/2" x 12 - 24MS 1 1/4" x 12WS	24
	<b>HOSPITAL TIP Full Mortise Type • Ball Bearing • Template</b>			
	<b>Two Ball Bearing, Standard Weight</b>			
	<b>ITEM #</b>	<b>SIZE</b>	<b>GAUGE</b>	
	HOSBB31 N.R.P.	4 1/2" x 4 1/2"	.134	
	<b>Four Ball Bearing, Heavy Weight</b>			
	HOSBB5200 N.R.P.	4 1/2" x 4 1/2"	.180	
	HOSBB5210 N.R.P.	5" x 4 1/2"	.190	
	Size: Maximum of 6" x 6" available upon request		Material: Steel, Stainless Steel	
	Size of FH Screws		Pieces Per Box	Pieces Per Carton
	Machine	Wood	3	48
	1/2" x 12 - 24	1 1/4" x 12		
	<b>WIDE THROW HINGES Full Mortise Type • Standard Weight • Two Ball Bearing • Template</b>			
	<b>ITEM #</b>	<b>SIZE</b>	<b>GAUGE</b>	
	WTHBB456	4 1/2" x 6"	.134	
	Size: Maximum of 6" x 6" available upon request		Material: Steel, Stainless Steel	
	Size of FH Screws		Pieces Per Box	Pieces Per Carton
	Machine	Wood	3	48
	1/2" x 12 - 24	1 1/4" x 12		


NOTE: All hinges are sold with a minimum order quantity (MOQ) equal to or exactly divisible by the inner box quantity specified in the catalog or price book.

	SPRING HINGES (Commercial) Full Mortise Type • Template • Single Acting			
	ITEM #		SIZE	GAUGE
	NEWSH140		4 ½" x 4 ½"	.134
	NEWSH454		4 ½" x 4"	.134
	Size: 4" x 4" and 3 ½" x 3 ½", available upon request		Material: Steel, Stainless Steel	
	Size of FH Screws		Pieces Per Box	Pieces Per Carton
	Machine	Wood	2	48
	½" x 12 - 24	1 ¼" x 12		


	COMBINATION HINGES • Full Mortise Type Set of 2 pcs Spring Hinges (NEWSH140) and 1 pc 2-Ball Bearing Hinges (BB31)			
	ITEM #		SIZE	GAUGE
	BB14031  (SOLD per set)	4 ½" x 4 ½" (2 pcs) Spring Hinges		.134
		4 ½" x 4 ½" (1 pc) 2-Ball Bearing Hinge		.134
	Material: Steel, Stainless Steel			
	Size of FH Screws		Set Per Box	Sets Per Carton
	Machine	Wood	1	16
	½" x 12 - 24	1 ¼" x 12		


1 set per inner box


	SPRING HINGES (RESIDENTIAL) Full Mortise Type Template • Single Acting			
	Round Corner, ¼" Radius (Template)			
	ITEM #		SIZE	GAUGE
	NEWSH44R		4" x 4"	.110
	NEWSH35R		3 ½" x 3 ½"	.110
	Round Corner, ⅝" Radius (4"x 4" Non Template)			
	NEWSH4458R		4" x 4"	.110
	NEWSH3558R		3 ½" x 3 ½"	.110
	Square Corner, (Template)			
	NEWSCSH35		3 ½" x 3 ½"	.110
	Material: Steel, Stainless Steel, Brass			
	Size of FH Screws		Pieces Per Box	Pieces Per Carton
	Machine	Wood	2	48
	½" x 12 – 24 w/ #10 Head (4"x4")	1" x 10		
	½" x 10 – 24 w/ #10 Head (3½"x 3½")	1" x 10		


	Castlegate Combination Square-Round Corner			
	CSH4458RSRLH (Left Hand)		4" x 4"	.110
	CSH4458RSRRH (Right Hand)		4" x 4"	.110
	Size of FH Screws		Pieces Per Box	Pieces Per Carton
	Machine	Wood	2	48
	½" x 10 - 24 w/ #10 Head	1" x 10		
	Benchmark Round Corner, ⅝" Radius			
	NBENSH4458R		4" x 4"	.110
	Material: Steel, Stainless Steel			
	Size of FH Screws		Pieces Per Box	Pieces Per Carton
	Machine	Wood	2	48
	½" x 12 - 24 w/ #10 Head	1" x 10		

NOTE: All hinges are sold with a minimum order quantity (MOQ) equal to or exactly divisible by the inner box quantity specified in the catalog or price book.

	EXTRUDED SOLID BRASS HINGES Full Mortise Type • Two Ball Bearing • Template			
	LIFE TIME FINISH			
	ITEM #	SIZE	GAUGE	
	LIFSBBH45	4 1/2" x 4 1/2"	.134	
	LIFSBBH44	4" x 4"	.130	
	LIFSBBH35	3 1/2" x 3 1/2"	.123	
	STANDARD FINISH			
	SBBH45	4 1/2" x 4 1/2"	.134	
	SBBH44	4" x 4"	.130	
	SBBH35	3 1/2" x 3 1/2"	.123	
Full Mortise Type • Plain Bearing • Template				
STANDARD FINISH				
SBH45	4 1/2" x 4 1/2"	.134		
SBH44	4" x 4"	.130		
SBH35	3 1/2" x 3 1/2"	.123		
Material: Steel, Stainless Steel, Brass				
DECORATIVE TIPS FOR EXTRUDED HINGES (BRASS)				
Ball Tip (BL), Steeple Tip (ST), Acorn Tip (AC), Urn Tip (UR)			Unit Ea Per Hinge 1	
Size of Wood Screws	3 1/2" - 1" x 10	Pieces Per Box	Pieces Per Carton	
	4" - 1" x 12	2	60	
	4 1/2" - 1 1/4" x 12			





	CASTLEGATE COMBINATION SQUARE-ROUND CORNER PLAIN BEARING HINGES			
	ITEM #	SIZE	GAUGE	
	CAS44R (Right Hand)	4" x 4"	.098	
	CAS44L (Left Hand)	4" x 4"	.098	
	Material: Steel, Stainless Steel			
	Size of Screws		Pieces Per Box	Pieces Per Carton
	Machine	Wood	2	48
	1/2" x 12 - 24 w/ #10 Head	1" x 9		

	RESIDENTIAL WEIGHT HINGES Full Mortise Type • Two Ball Bearing • 5 Knuckles			
	1/4" Radius			
	ITEM #	SIZE	GAUGE	
	BBRH60	4" x 4"	.097	
	BBRH61	3 1/2" x 3 1/2"	.085	
	5/8" Radius			
	BBRH40	4" x 4"	.097	
	BBRH35	3 1/2" x 3 1/2"	.085	
	4" x 4" Non Template Type, 3 1/2" x 3 1/2" Template Type		Material: Steel, Stainless Steel, Brass	
	Size of Wood Screws		Pieces Per Box	Pieces Per Carton
	4" x 4"	1" x 9	2, Assembled	100
	3 1/2" x 3 1/2"	3/4" x 9		


	RESIDENTIAL WEIGHT HINGES Full Mortise Type • Plain Bearing • 5 Knuckles			
	1/4" Radius			
	ITEM #	SIZE	GAUGE	
	RH60	4" x 4"	.097	
	RH60-349*			
	RH61	3 1/2" x 3 1/2"	.085	
	5/8" Radius			
	RH40	4" x 4"	.097	
	RH35	3 1/2" x 3 1/2"	.085	
	10RH35*			
	Square Corner			
	RH91	4" x 4"	.097	
	RH90	3 1/2" x 3 1/2"	.085	
	RH33	3" x 3"	.085	
	4" x 4" Non Template Type, 3 1/2" x 3 1/2" Template Type		Material: Steel, Stainless Steel, Brass	
Size of Wood Screws		Pieces Per Box	Pieces Per Carton	
4" x 4", 3 1/2" x 3 1/2"*	1" x 9	2, Assembled	100	
3 1/2" x 3 1/2", 4" x 4"*	3/4" x 9	100 Unassembled		


NOTE: All hinges are sold with a minimum order quantity (MOQ) equal to or exactly divisible by the inner box quantity specified in the catalog or price book.





	<b>RESIDENTIAL WEIGHT HINGES</b> Benchmark • Hole Pattern • Bulk Assembled		
	<b>5/8" Radius</b>		
	<b>ITEM #</b>	<b>SIZE</b>	<b>GAUGE</b>
	BENRH40B	4" x 4"	.085
	Material: Steel, Stainless Steel		
	Size of FH Screws		Pieces Per Box
	Machine	Wood	Pieces Per Carton
	1/2" x 10-24 per hinge (4)	3/4" x #10 (3), #10 x 2" (1)	100
	<b>RESIDENTIAL WEIGHT HINGES</b> Full Mortise Type • Plain Bearing • 6 Knuckles • Bulk Unassembled		
	<b>5/8" Radius</b>		
	UARH356	3 1/2" x 3 1/2"	.085
	Material: Steel, Stainless Steel, Brass		
	4" x 4" Non Template Type, 3 1/2" x 3 1/2" Template Type		
	Size of Wood Screws		Pieces Per Carton
	3 1/2" x 3 1/2"	3/4" x 9	100
	<b>TIMELY, REDDI FRAME</b> <b>RESIDENTIAL WEIGHT HINGES</b> Plain Bearing • Template		
	<b>1/4" Radius</b>		
	<b>ITEM #</b>	<b>SIZE</b>	<b>GAUGE</b>
	TBHRC33	4" x 4"	.097
	<b>For use on Metal Frames and Wood Doors</b>		
	Material: Steel, Stainless Steel, Brass		
	Size of FH Screws		Pieces Per Carton
	Machine	Wood	
	1/2" x 12 - 24 with #10 Head	1" x 10	48
	<b>TIMELY, REDDI FRAME</b> <b>RESIDENTIAL WEIGHT HINGES</b> Plain Bearing • Template		
	<b>1/4" Radius</b>		
	<b>ITEM #</b>	<b>SIZE</b>	<b>GAUGE</b>
	TBHRC45	3 1/2" x 3 1/2"	.085
	<b>For use on Metal Frames and Wood Doors</b>		
	Material: Steel, Stainless Steel, Brass		
	Size of FH Screws		Pieces Per Carton
	Machine	Wood	
	1/2" x 10 - 24 with #9 Head	3/4" x 9	100


NOTE: All hinges are sold with a minimum order quantity (MOQ) equal to or exactly divisible by the inner box quantity specified in the catalog or price book.

	RESIDENTIAL STAINLESS STEEL HINGES, SQUARE CORNER Full Mortise Type • Residential Weight • Plain Bearing				
	ITEM #		SIZE		GAUGE
	LTBHSC55		4" x 4"		.080
	LTBHSC77		3 1/2" x 3 1/2"		.080
	LTBHSC33		3" x 3"		.080
	Material: Stainless Steel				
	Size of FH Screws		Pieces Per Box		Pieces Per Carton
Machine	Wood	2		100	
N/A	3/4" x 9				











	RESIDENTIAL HEAVY WEIGHT SQUARE BARREL HINGES Full Mortise Type • Plain Bearing • Template				
	ITEM #		SIZE		GAUGE
	SQH-45		4 1/2" x 4 1/2"		.180
	SQH-44		4" x 4"		.180
	SQH-35		3 1/2" x 3 1/2"		.180
	Material: Brass				
	Size of Wood Screws	4 1/2" x 4 1/2"	1 1/4" x 12	Pieces Per Box	Pieces Per Carton
4" x 4"		2		48	
3 1/2" x 3 1/2"					1" x 10

	PARLIAMENT HINGES Full Mortise Type • Plain Bearing • Template				
	ITEM #		SIZE		GAUGE
	PARH458C		4 5/8" x 2 1/2"		.093
	PARH4B		4" x 2 1/2"		.093
	PARH3A		3" x 2 1/4"		.093
	Material: Brass				
	Size of FH Screws		Pieces Per Box		Pieces Per Carton
Machine	Wood	2		100	
N/A	3/4" x 9				

	SOLID BRASS CABINET HINGES				
	ITEM #		SIZE		GAUGE
	CABH-2015		2" x 1 1/2"		.084
	CABH-2517		2 1/2" x 1 1/2"		.084
	Size of FH Screws		Pieces Per Box		Pieces Per Carton
	Machine	Wood	25		250
	N/A	3/4" x 6			

	REINFORCING PIVOT HINGES				
	ITEM #		SIZE		GAUGE
	RPH45		4 1/2"		.187
	RPH45SHIM		1/8" Shim plate for RPH45 (Used for doors with 1/8" Reveal)		
	Material: Steel				
	Size of FH Screws		Pieces Per Box		Pieces Per Carton
	Machine	Wood	2		100
1/2" x 10 - 24	3/4" x 10				

NOTE: All hinges are sold with a minimum order quantity (MOQ) equal to or exactly divisible by the inner box quantity specified in the catalog or price book.

<b>HINGE SCREWS</b>		
<b>STEEL SCREWS FOR CONTRACT GRADE SIZE 4" , 4.5" and 5"</b>		
	<b>ITEM #</b>	<b>FINISH</b>
	<b>MACHINE 1/2" x 12-24 FPHM</b>	
	MSC1224	USP, US26D, US10A, US10B, US10, US4, US3, US26, DURO, US32D
	<b>WOOD 1 1/4" x 12 FPHW</b>	
	WSC11412	USP, US26D, US10A, US10B, US10, US4, US3, US26, DURO, US32D
	<b>WOOD 1" x 12 FPHW</b>	
	WSC11299	USP, US26D, US10A, US10B, US10, US4, US3, US26, US15, DURO
<b>STEEL SCREWS FOR RESIDENTIAL HINGES (4" x 4" and 3 1/2" x 3 1/2")</b>		
	<b>WOOD 1" x 9 with flycut (4" x 4" size hinge)</b>	
	TWSC19	US26D, US10A, US4, US3, US26
	<b>WOOD 3/4" x 9 with flycut (3 1/2" x 3 1/2" size hinge)</b>	
	RESWC349	US26D, US10A, US4, US3, US26
<b>STEEL SCREWS FOR TBHRC33 AND TBHRC45, 4" x 4" and 3 1/2" x 3 1/2" TIMELY HINGES, 4" x 4" and 3 1/2" x 3 1/2" SPRING HINGES, 3 1/2" x 3 1/2" CONTRACT GRADE HINGES</b>		
	<b>MACHINE 1/2" x 12-24 with #10 head FPHM (4" x 4" size hinge, 1/4" radius)</b>	
	TMC1224	USP, US26D, US10A, US4, US3, US26, US28, US15, US10B, DURO
	<b>MACHINE 1/2" x 10-24 with #10 head FPHM (4" x 4" Size Hinge, 5/8" radius)</b>	
	TMC10244458R	USP, US26D, US10A, US4, US3, US26, US10B, DURO
	<b>WOOD 1" x 10 FPHW (4" x 4" size hinge)</b>	
	TWSC110	USP, US26D, US10A, US4, US3, US26, US15, US10B, US15A, USP, DURO
	<b>MACHINE 1/2" x 10-24 No. 9 HEAD FPHM (3 1/2" x 3 1/2" size hinge)</b>	
	TMC121024	USP, US26D, US10A, US4, US3, US26, US10B, US32D, DURO
	<b>WOOD 3/4" x 9 FPHW (3 1/2" x 3 1/2" size hinge)</b>	
	RESWC349	USP, US26D, US10A, US4, US3, US26, US28, US10B, US15, US15A, DURO

TYPE	CAL-ROYAL		ANSI	HAGER	STANLEY	MCKINNEY	PBB
Steel / Stainless 2 Ball Bearings	BB55	5" x 5"	A8112 A5112 (Stainless Steel)	BB1279 BB1191 (Stainless Steel)	FBB179 FBB191 (Stainless Steel)	TB2714 TB2314 (Stainless Steel)	BB81 BB51 (Stainless Steel)
	BB545	5" x 4 ½"					
	BB54	5" x 4"					
	BB31	4 ½" x 4 ½"					
	BB454	4 ½" x 4"					
	BBSC56	4" x 4"					
	BBRC45	4" x 4" (¼" Rad.)					
BBSC77	3 ½" x 3 ½"	Stainless Steel, add 32D after part#					
Steel / Stainless Plain Bearing	TBH30	4 ½" x 4 ½"	A8133 A5133 (Stainless Steel)	1279 1191 (Stainless Steel)	F179 F191 (Stainless Steel)	T2714 T2314 (Stainless Steel)	PB81 PB51 (Stainless Steel)
	TBH454	4 ½" x 4"					
	TBHSC55	4" x 4"					
	TBHRC44	4" x 4" (¼" Rad.)					
	TBHSC77	3 ½" x 3 ½"					
	TBHRC66	3 ½" x 3 ½" (¼" Rad.)					
Stainless Steel, add 32D after part#							
Brass, 2 Ball Bearings	SBBB31	4 ½" x 4 ½"	A2112	BB1191	FBB191	TB2314	BB21
Brass, Plain Bearing	SBTBH30	4 ½" x 4 ½"	A2133	1191	F191	T2314	PB21
Steel, Half Mortise, 2 Ball Bearings	HMBB4100	4 ½"	A8212	BB1129	FBB167	TB2774	BB82
Stainless Steel, add 32D after part#							
Steel, Half Surface, 2 Ball Bearings	HSBB4900	4 ½"	A8412	BB1173	FBB173	TB2772	BB84
Stainless Steel, add 32D after part#							
Steel, Swing Clear, 2 Ball Bearings	BB600	4 ½"	A8122	BB1260	FBB248	TB2895	SC81
Steel, Bearing Concealed	BB2200	4 ½" x 4 ½"	A8112	BB700	CB1900	TA714	CB81
Stainless Steel, add 32D after part#							
"UL" Spring Hinge, Commercial	NEWSH140	4 ½" x 4 ½"	K8107-1F	1250	2060	1502	SP81
	NEWSH454	4 ½" x 4"					
Stainless Steel, add 32D after part#							
"UL" Spring Hinge, Commercial / Residential	NEWSH4458R	4" x 4", (5⁄8" Rad.)	K81071 F	1251	2060	1502	RS81
	NEWSH44R	4" x 4", (¼" Rad.)					
	NEWSH35R	3 ½" x 3 ½" (¼" Rad.)					
	NEWSH3558R	3 ½" x 3 ½" (5⁄8" Rad.)					
Steel, 4 Ball Bearings, Heavy Gauge	BB5210	5" x 4 ½"	A8111 A5111 (Stainless Steel)	BB1168 BB1199 (Stainless Steel)	FBB168 FBB199 (Stainless Steel)	T4B3786 T4B3386 (Stainless Steel)	4B81 4B51 (Stainless Steel)
	BB5254	5" x 4"					
	BB5200	4 ½" x 4 ½"					
	BB52454	4 ½" x 4"					
Stainless Steel, add 32D after part#							

◇◇◇ All hinges above are available in steel, brass and stainless steel. Brass base prefix "SB" before part #. Stainless steel add US32D after part #. Consult factory for more information on hinge comparisons not shown.



# CAL-ROYAL PRODUCTS, INC.

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## A156.1-2016 - Butts and Hinges COMMERCIAL GRADE 1 HINGES

<u>ANSI TYPE</u>	<u>HINGE TYPE</u>	<u>GRADE</u>	<u>CAL-ROYAL PART #</u>
A5112	4 ½" X 4 ½" FULL MORTISE / 2 BALL BEARING	2	BB31
A5112	4 ½" X 4" FULL MORTISE / 2 BALL BEARING	2	BB454
A5111	4 ½" X 4 ½" FULL MORTISE / 4 BALL BEARING HEAVY WEIGHT HINGE	1	BB5200
A5111	4 ½" X 4" FULL MORTISE / 4 BALL BEARING HEAVY WEIGHT HINGE	1	BB52454
A5111	5" X 5" FULL MORTISE / 4 BALL BEARING HEAVY WEIGHT HINGE	1	BB5500
A5111	5" X 4 ½" FULL MORTISE / 4 BALL BEARING HEAVY WEIGHT HINGE	1	BB5210
A8112	4 ½" X 4 ½" FULL MORTISE / 2 BALL BEARING	2	BB31
A8112	4 ½" X 4 ½" FULL MORTISE / 2 BALL BEARING	2	BB454
A8111	4 ½" X 4 ½" FULL MORTISE / 4 BALL BEARING HEAVY WEIGHT HINGE	1	BB5200
A8111	4 ½" X 4" FULL MORTISE / 4 BALL BEARING HEAVY WEIGHT HINGE	1	BB52454
A8111	5" X 5" FULL MORTISE / 4 BALL BEARING HEAVY WEIGHT HINGE	1	BB5500
A8111	5" X 4 ½" FULL MORTISE / 4 BALL BEARING HEAVY WEIGHT HINGE	1	BB5210
A5133	4 ½" X 4 ½" FULL MORTISE / STANDARD WEIGHT, PLAIN BEARING	3	TBH30
A8133	4 ½" X 4 ½" FULL MORTISE / STANDARD WEIGHT, PLAIN BEARING	3	TBH30

NOTES: ALL HINGES ARE STEEL AND ANYTHING THAT IS ORDERED WITH 32D IS STAINLESS STEEL. ALL HINGES ARE ANSI TEMPLATES AND HINGE TESTING CONFORMS TO ANSI A156.1.



Refer to BHMA Certified Products Directory at [www.buildershardware.com](http://www.buildershardware.com)  
to see the complete and updated listings of Cal-Royal Products, Inc.



Five knuckle non-rising removable pin, button tip and plug.

**LIFETIME  
WARRANTY**

**BHMA  
CERTIFIED**  
Be Safe. Be Secure. Look for the Mark.



#### FULL MORTISE TEMPLATE HINGES

##### Plain Bearing . Standard Weight

Brass ANSI A2133

Stainless Steel ANSI A5133

with stainless steel pin

Steel with steel pin ANSI A8133

Cal-Royal Part #	Size Open ( Inches )	Gauge of Metal	Number of Holes	Machine Screw Size	Wood Screw Size	Inner Box Quantity	Pieces/ Case
TBHSC33	3" x 3"	.119	6	½ x 12-24	1 x 9	2 Ea.	100
TBHSC77 TBHRC66 (RC) ¼" Rad	3 ½" x 3 ½"	.119	6	½ x 10-24	1 x 9	2 Ea.	100
TBHSC55 TBHRC44 (RC) ¼" Rad TBHRC5844 (RC) ⅝" Rad	4" x 4"	.129	8	½ x 12-24	1 x 12	3 Ea.	48
TBHSC435	4" x 3 ½"	.119	8	½ x 12-24	1 x 12	3 Ea.	48
TBH30	4 ½" x 4 ½"	.134	8	½ x 12-24	1 ¼ x 12	3 Ea.	48
TBH454	4 ½" x 4"	.134	8	½ x 12-24	1 ¼ x 12	3 Ea.	48
TBH54	5" x 4"	.145	8	½ x 12-24	1 ¼ x 12	3 Ea.	24
TBH545	5" x 4 ½"	.145	8	½ x 12-24	1 ¼ x 12	3 Ea.	24
TBH55	5" x 5"	.145	8	½ x 12-24	1 ¼ x 12	3 Ea.	24
TBH645	6" x 4 ½"	.160	10	½ x ¼-20	1 ½ x 14	3 Ea.	24
TBH65	6" x 5"	.160	10	½ x ¼-20	1 ½ x 14	3 Ea.	24
TBH66	6" x 6"	.160	10	½ x ¼-20	1 ½ x 14	3 Ea.	24

**CAL-ROYAL PRODUCTS, INC.** Template hinges are manufactured to close tolerances and meet all specifications and requirements set by the American National Standards Institute (ANSI A156.7). **All hinges are ANSI templates. All hinges above are available in steel, brass and stainless steel base.**

**Brass base prefix "SB" before part #. Stainless steel add 32D after part #. All hinges above are packed with all wood and machine screws.**



Five knuckle two ball bearings, non-rising removable pin, button tip and plug.

#### FULL MORTISE TEMPLATE HINGES

##### Ball Bearing . Standard Weight

Brass ANSI A2112

Stainless Steel ANSI A5112

with stainless steel pin

Steel with steel pin ANSI A8112

Cal-Royal Part #	Size Open ( Inches )	Gauge of Metal	Number of Holes	Machine Screw Size	Wood Screw Size	Inner Box Quantity	Pieces/ Case
BBSC33	3" x 3"	.123	6	½ x 10-24	1 x 9	2 Ea.	100
BBSC77	3 ½" x 3 ½"	.123	6	½ x 10-24	1 x 9	2 Ea.	100
BBRC5835	3 ½" x 3 ½"	.123	6	½ x 10-24	1 x 9	2 Ea.	100
BBSC56 BBRC45 (RC) ¼" Rad BBRC5844 (RC) ⅝" Rad	4" x 4"	.129	8	½ x 12-24	1 x 12	3 Ea.	48
BBSC435	4" x 3 ½"	.119	8	½ x 12-24	1 x 12	3 Ea.	48
BB454	4 ½" x 4"	.134	8	½ x 12-24	1 ¼ x 12	3 Ea.	48
BB31	4 ½" x 4 ½"	.134	8	½ x 12-24	1 ¼ x 12	3 Ea.	48
BB54	5" x 4"	.145	8	½ x 12-24	1 ¼ x 12	3 Ea.	24
BB545	5" x 4 ½"	.145	8	½ x 12-24	1 ¼ x 12	3 Ea.	24
BB55	5" x 5"	.145	8	½ x 12-24	1 ¼ x 12	3 Ea.	24
BB645	6" x 4 ½"	.160	10	½ x ¼-20	1 ½ x 14	3 Ea.	24
BB65	6" x 5"	.160	10	½ x ¼-20	1 ½ x 14	3 Ea.	24
BB66	6" x 6"	.160	10	½ x ¼-20	1 ½ x 14	3 Ea.	24

**CAL-ROYAL PRODUCTS, INC.** Template hinges are manufactured to close tolerances and meet all specifications and requirements set by the American National Standards Institute (ANSI A156.7). **All hinges are ANSI templates. All above hinges are available in steel, brass and stainless steel base.**

**Brass base prefix "SB" before part #. Stainless steel add 32D after part #. All hinges above are packed with all wood and machine screws.**





#### FULL MORTISE TEMPLATE HINGES

##### Ball Bearing . Heavy Weight

Brass ANSI A2111

Stainless Steel ANSI A5111

with stainless steel pin

Steel with steel pin ANSI A8111

Five knuckle four ball bearings, non-rising removable pin, button tip and plug.

Cal-Royal Part #	Size Open ( Inches )	Gauge of Metal	Number of Holes	Machine Screw Size	Wood Screw Size	Inner Box Quantity	Pieces/ Case
BB52454	4 ½" x 4"	.180	8	½ x 12-24	1 ¼ x 12	3 Ea.	24
BB5200	4 ½" x 4 ½"	.180	8	½ x 12-24	1 ¼ x 12	3 Ea.	24
BB5254	5" x 4"	.190	8	½ x 12-24	1 ¼ x 12	3 Ea.	24
BB5210	5" x 4 ½"	.190	8	½ x 12-24	1 ¼ x 12	3 Ea.	24
BB5500	5" x 5"	.190	8	½ x 12-24	1 ¼ x 12	3 Ea.	24
BB6450	6" x 4 ½"	.190 Stainless Steel .203 Steel & Brass	10	½ x ¼-20	1 ½ x 14	3 Ea.	24
BB6500	6" x 5"	.190 Stainless Steel .203 Steel & Brass	10	½ x ¼-20	1 ½ x 14	3 Ea.	24
BB6600	6" x 6"	.190 Stainless Steel .203 Steel & Brass	10	½ x ¼-20	1 ½ x 14	3 Ea.	24
BB8600	8" x 6"	.190 Stainless Steel .203 Steel & Brass	16	½ x ¼-20	1 ½ x 14	3 Ea.	12
BB8800	8" x 8"	.190 Stainless Steel .203 Steel & Brass	16	½ x ¼-20	1 ½ x 14	3 Ea.	12

**CAL-ROYAL PRODUCTS, INC.** Template hinges are manufactured to close tolerances and meet all specifications and requirements set by the American National Standards Institute (ANSI A156.7) **All hinges are ANSI templates. Hinge testing conforms to ANSI A156.1. All hinges above are available in steel, brass, and stainless steel base. Brass base prefix "SB" before part #. Stainless steel and 32D after part #. All hinges above are packed all wood and machine screws.**



FULL MORTISE TEMPLATE HINGES  
**Concealed Ball Bearing . Heavy Weight**  
 Brass ANSI A2111  
 Stainless Steel ANSI A5111  
 with stainless steel pin  
 Steel with steel pin ANSI A8111

Three knuckles with concealed ball bearings, non-rising removable pin, concealed pin head and plug

Cal-Royal Part #	Size Open ( Inches )	Gauge of Metal	Number of Holes	Machine Screw Size	Wood Screw Size	Inner Box Quantity	Pieces/ Case
BB1000	4 1/2" x 4"	.180	8	1/2 x 12-24	1 1/4 x 12	3 Ea.	24
BB3300	4 1/2" x 4 1/2"	.180	8	1/2 x 12-24	1 1/4 x 12	3 Ea.	24
BB7754	5" x 4"	.190	8	1/2 x 12-24	1 1/4 x 12	3 Ea.	24
BB77545	5" x 4 1/2"	.190	8	1/2 x 12-24	1 1/4 x 12	3 Ea.	24
BB7755	5" x 5"	.190	8	1/2 x 12-24	1 1/4 x 12	3 Ea.	24
BB77645	6" x 4 1/2"	.190 Stainless Steel .203 Steel & Brass	10	1/2 x 1/4-20	1 1/2 x 14	3 Ea.	24
BB7765	6" x 5"	.190 Stainless Steel .203 Steel & Brass	10	1/2 x 1/4-20	1 1/2 x 14	3 Ea.	24
BB7766	6" x 6"	.190 Stainless Steel .203 Steel & Brass	10	1/2 x 1/4-20	1 1/2 x 14	3 Ea.	24

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FULL MORTISE TEMPLATE HINGES  
**Concealed Ball Bearing . Standard Weight**  
 Brass ANSI A2112  
 Stainless Steel ANSI A5112  
 with stainless steel pin  
 Steel with steel pin ANSI A8112

Three knuckles with concealed ball bearings, non-rising removable pin, concealed pin head and plug

Cal-Royal Part #	Size Open ( Inches )	Gauge of Metal	Number of Holes	Machine Screw Size	Wood Screw Size	Inner Box Quantity	Pieces/ Case
BB223535	3 1/2" x 3 1/2"	.119	6	1/2 x 10-24	1 x 9	2	100
BB224040	4" x 4"	.129	8	1/2 x 12-24	1 1/4 x 12	3	48
BB22454	4 1/2" x 4"	.134	8	1/2 x 12-24	1 1/4 x 12	3	48
BB2200	4 1/2" x 4 1/2"	.134	8	1/2 x 12-24	1 1/4 x 12	3	48
BB2254	5" x 4"	.145	8	1/2 x 12-24	1 1/4 x 12	3	24
BB22545	5" x 4 1/2"	.145	8	1/2 x 12-24	1 1/4 x 12	3	24
BB2255	5" x 5"	.145	8	1/2 x 12-24	1 1/4 x 12	3	24

**CAL-ROYAL PRODUCTS, INC.** Template hinges are manufactured to close tolerances and meet all specifications and requirements set by the American National Standards Institute (ANSI A156.7). **All hinges are ANSI templates. All hinges above are available in steel, brass and stainless steel base. Brass base prefix "SB" before part #. Stainless steel add 32D after part #. All hinges above are packed with all wood and machine screws.**





SPRING HINGE  
Full Mortise . Template . Single Acting  
Steel ANSI K81071F



NEWSH35R  
( 3 1/2" x 3 1/2" )



NEWSH4458R  
( 4" x 4" )



NEWSH44R  
( 4" x 4" )



NEWSH140  
( 4 1/2" x 4 1/2" )

Cal-Royal Part #	Size Open ( Inches )	Gauge of Metal	Number of Holes	Machine Screw Size	Wood Screw Size	Inner Box Quantity	Pieces/ Case
NEWSH35R (RC) 1/4" Rad	3 1/2" x 3 1/2"	.115	6	1/2 x 10-24	1 x 9	2	48
NEWSH3558R (RC) 5/8" Rad	3 1/2" x 3 1/2"	.115	6	1/2 x 10-24	1 x 9	2	48
NEWSCSH35	3 1/2" x 3 1/2"	.115	6	1/2 x 10-24	1 x 9	2	48
NEWSH44R (RC) 1/4" Rad Template	4" x 4"	.115	8	1/2 x 12-24 with #10 head	1 x 10	2	48
NEWSH4458R (RC) 5/8" Rad Non- Template	4" x 4"	.115	8	1/2 x 12-24 with #10 head	1 x 10	2	48
NBENSH4458R (RC) 5/8" Rad (Benchmark)	4" x 4"	.115	8	1/2 x 12-24 with #10 head	1 x 10	2	48
NEWSH454	4 1/2" x 4"	.134	8	1/2 x 12-24	1 1/4 x 12	2	48
NEWSH140	4 1/2" x 4 1/2"	.134	8	1/2 x 12-24	1 1/4 x 12	2	48

**CAL-ROYAL PRODUCTS, INC.** Template hinges are manufactured to close tolerances and meet all specifications and requirements set by the American National Standards Institute (ANSI A156.7). **All hinges are ANSI templates. Hinge testing conforms to ANSI A156.1. All hinges above are available in steel and stainless steel base. Add 32D after part # for stainless steel hinges. All hinges above are packed with all wood and machine screws.**

## Maximum Door Sizes & Weights

Size	Recommended Max Door Weight (Lbs)	*Spring Hinges	Butt Hinges Labeled Doors Require Ball Bearing Hinges
3 1/2" ( Full Mortise )	50	2 Ea.	1 Ea.
	70	2 Ea.	1 Ea.
	90	3 Ea.	-----
4" ( Full Mortise )	60	2 Ea.	1 Ea.
	85	2 Ea.	1 Ea.
	110	3 Ea.	-----
4 1/2" ( Full Mortise )	70	2 Ea.	1 Ea.
	115	2 Ea.	1 Ea.
	150	3 Ea.	-----

## HINGE SELECTION

**\*Notes:** Wind conditions, excessive air pressure on one side of opening, or other adverse job conditions may require the use of all spring hinges. For maximum versatility use all spring hinges. U/L listed spring hinges are not available with reverse springs.





**LIFETIME  
WARRANTY**



### Standard Lengths

Cal-Royal continuous hinge length provides for actual threshold clearance, head clearance and door height allowances for carpeting. Other lengths may be ordered as non-standard items. Our standard actual lengths are 83" (7'0" opening), 95" (7'2" to 8'0" opening).

### Special Lengths

Special lengths are considered non-standard items and may not be grouped with standard items or other Cal-Royal Products, to achieve a lower discount. Any Changes to the special length products may be subject to charges for work in process. Templates available on request and on website.

### Field Modifications

Cal-Royal continuous hinges can be cut in the field, however, any product modifications may void all warranties. If field modifications must be made, cut only the underside or bottom of the hinge.

### Standard Finishes

Cal-Royal continuous hinges are available in either Clear Anodized Aluminum (US28) or Dark Bronze Anodized (Duranodic 313 or equivalent). Special finishes are available subject to quantity & factory lead time

Fire Ratings - Underwriters Laboratory Fire Rating			
FIRE RATED CAL-ROYAL	FULL CONCEALED	HALF SURFACE	FULL SURFACE
SURFACE	U/L---FF	U/L---FF	U/L---FF
90 Minute Fire Rated Wood Door x Fire Rated Hollow Metal Frame	* U/L---Stud	U/L---Stud	U/L---Stud
90 Minute Fire Rated Metal Door x Fire Rated Hollow Metal Frame	U/L---FF	U/L---FF	U/L---FF
3 Hour Fire Rated Hollow Metal Door x Fire Rated Hollow Metal Frame	*U/L---Stud	U/L---Stud	U/L---Stud
Maximum Size of Single Rated Door Leaf 4'0" Wide x 10'0" High			
Maximum Rated Opening Size for Single Door 4'0" Wide x 10'0" High			

\* Devices for which Studs are required

**Cal-Royal** continuous hinges are approved for use on swing type doors of hollow metal, tinclad, sheet-metal and steel covered composite type rated up to and including 3 hours. Wood composite doors rated up to and including 1½ hours.

**Fully Concealed** - These models are concealed between the rabbet of the frame and the hinge edge of the door.

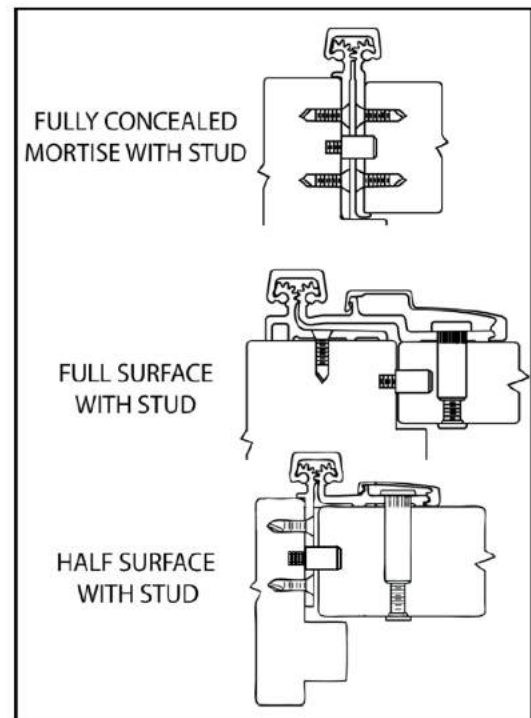
**Models available:** *CRHD781110, CRHD781120, CRHD782240*

**Full Surface** - These models have the frame leaf mounted to the face of the frame and the face of the door. The door leaf is mounted to the door with through bolts.

**Models available:** *CRHD780570, CRHD781570, CRHD782100*

**Half Surface** - These models have the frame leaf concealed between the rabbet of the frame and the edge of the door. The door leaf is mounted to the face of the door with sex bolts or screws.

**Models available:** *CRHD780530*

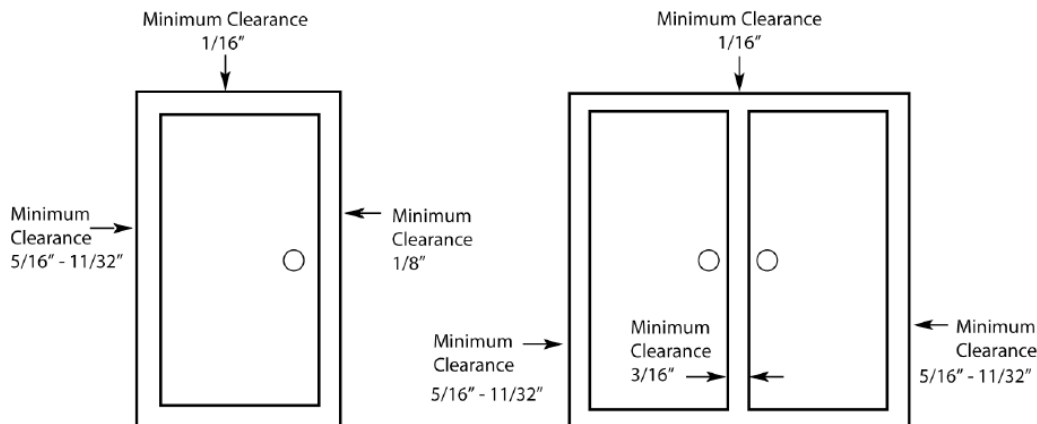


## Dimensioning Door and Frame ---- Full Concealed Mortised Models CRHD781110, CRHD781120, CRHD782240

The Above models are primarily used for new doors and frames. Both leaves are fully Mortised. They can also be used on renovations for a new door with an existing frame or an existing door with a new frame. These hinges will cover existing standard full Mortise hinge preps.

### Required Clearance

Single Doors (Square Edged)	STANDARD		METRIC
A. Thickness of Hinge	5/16"	(10/32")	8.0 mm
B. Allowances for frame irregularities	1/32"	(1/32")	0.8 mm
C. Single Door Clearance on lock side	1/8"	(4/32")	3.2 mm
	Total	15/32"	12.0 mm
Single Doors (Beveled Edged)			
A. Thickness of Hinge	5/16"	(10/32")	8.0 mm
B. Allowances for frame irregularities	1/32"	(1/32")	0.8 mm
C. Single Door Clearance on lock side	1/8"	(4/32")	3.2 mm
D. Allowance for beveled edge	1/32"	(1/32")	0.8 mm
	Total	16/32"	12.8 mm
Pairs of Doors (Square Edged)			
A. Thickness of Hinge	5/16"	(10/32")	8.0 mm
B. Allowances for frame irregularities	1/32"	(1/32")	0.8 mm
C. Recommended Edge to Edge clearance	3/16"	(6/32")	4.8 mm
D. Second allowance for frame irregularities	1/32"	(1/32")	0.8 mm
E. Second hinge thickness	5/16"	(10/32")	8.0 mm
	Total	28/32"	22.4 mm
Pairs of Doors (Beveled Edge)			
A. Thickness of Hinge	5/16"	(10/32")	8.0 mm
B. Beveled Edge allowance	1/32"	(1/32")	0.8 mm
C. Allowances for frame irregularities	1/32"	(1/32")	0.8 mm
D. Recommended Edge to Edge clearance	3/16"	(6/32")	4.8 mm
E. Second allowance for frame irregularities	1/32"	(1/32")	0.8 mm
F. Second allowance for beveled edge	1/32"	(1/32")	0.8 mm
G. Second hinge thickness	5/16"	(10/32")	8.0 mm
	Total	30/32"	24.0 mm





**Determining Door & Frame Dimensions -  
Full Surface Models  
CRHD780570, CRHD781570, CRHD782100**

The Above models require no special dimensioning, they are designed for retrofit applications. Full Surface models are designed to be mounted to the exposed surface of the door and frame. Additional clearance is not needed except for door and frame painting.

**Required Clearance**

Single Doors (Square & Beveled Edge)	STANDARD		METRIC
A. Thickness of Hinge	0"	(0")	0.0 mm
B. Additional allowance for door and frame painting (optional)	1/32"	(1/32")	0.8 mm
C. Clearance for Single Door Lock side	1/8"	(4/32")	3.2 mm
	TOTAL	5/32"	4.0 mm

**Required Clearance**

Single Doors (Square & Beveled Edge)	STANDARD		METRIC
A. Thickness of Hinge	0"	(0")	0.0 mm
B. Frame Irregularities, additional allowance	1/32"	(1/32")	0.8 mm
C. Recommended clearance, edge to edge	3/16"	(6/32")	4.8 mm
D. Frame irregularities, second allowance	1/32"	(1/32")	0.8 mm
E. Second hinge thickness	0"	(0")	0.0 mm
	TOTAL	8/32"	6.4 mm

Note: Additional clearance may be required for paint or weatherstripping

**Determining Door & Frame Dimensions -  
Half Surface Models  
CRHD780530**

The Above model is designed for use in new doors and frames wherein one leaf is concealed and one leaf is surface mounted. This can also be used in retrofit applications in cases where a new door is installed on an existing frame. Half Surface models are designed for one leaf to be mounted to the exposed surface of the door and the other leaf is concealed on the frame.

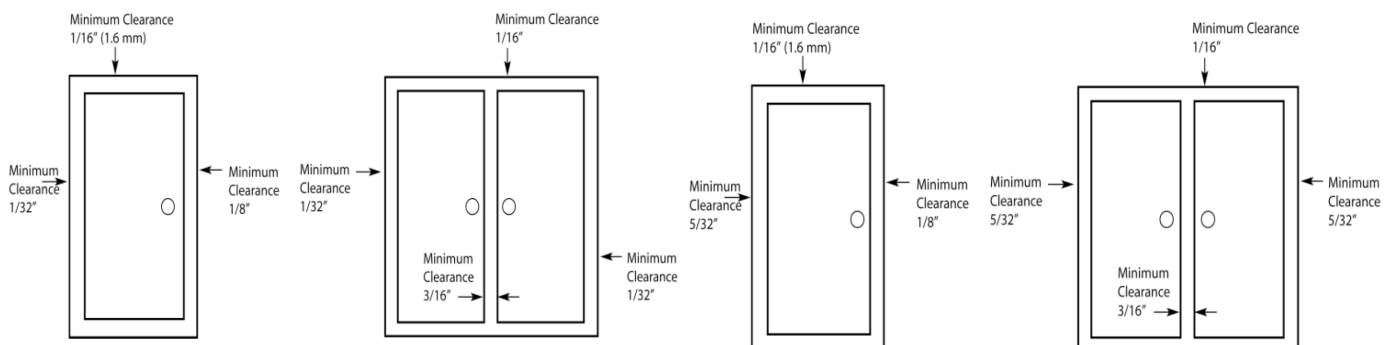
**Required Clearance**

Single Doors (Square & Beveled Edge)	STANDARD		METRIC
A. Thickness of Hinge	1/8"	(4/32")	3.2 mm
B. Additional allowance for door and frame painting (optional)	1/32"	(1/32")	0.8 mm
C. Clearance for Single Door Lock side	1/8"	(4/32")	3.2 mm
	TOTAL	9/32"	7.2 mm

**Required Clearance**

Single Doors (Square & Beveled Edge)	STANDARD		METRIC
A. Thickness of Hinge	1/8"	(4/32")	3.2 mm
B. Frame Irregularities, additional allowance	1/32"	(1/32")	0.8 mm
C. Recommended clearance, edge to edge	3/16"	(6/32")	4.8 mm
D. Frame irregularities, second allowance	1/32"	(1/32")	0.8 mm
E. Second hinge thickness	1/8"	(4/32")	3.2 mm
	TOTAL	8/32"	12.8 mm

Note: Additional clearance may be required for paint or weatherstripping



**Concealed / Mortise Leaf • Any Door Material • Heavy Duty**

*Heavy Duty for high frequency 1 ¾" doors or heavy medium frequency doors up to 450 lbs.*

CRHD781110 (Heavy Duty), CRHD781120 (Heavy Duty), CHRHD782240 (Heavy Duty)

MODEL#	LENGTH		SCREW COUNT		CLEARANCE
	IN	CM	DOOR	JAMB	
CRHD781110	83	210.8	19	19	5/16" (8mm) hinge side plus standard lockside clearance
CRHD781110	95	241.3	19	19	
CRHD781120	83	210.8	19	19	
CRHD781120	95	241.3	19	19	
CRHD782240	83	210.8	19	19	
CRHD782240	95	241.3	19	19	

• **FASTENERS:**

Self-Tapping screws

**Full Mortise Hinges**

1. All fasteners are No. 12-24 x 1/16" Type C, FHUC

a. Heavy Duty Hinges - 10 required for each leaf

b. Wood Screw - on request (specify on order)

• **LENGTH OPTIONS:**

83" & 95"

• **DOOR REINFORCEMENT:**

None needed to 200lbs.

Use 16 gauge channel over 200 lbs.

• **FIRE RATING:**

Up to 3 Hours

• **SPECIAL FEATURES:**

For new construction

For renovation with new doors and/or frames

No mortising of doors or frames required

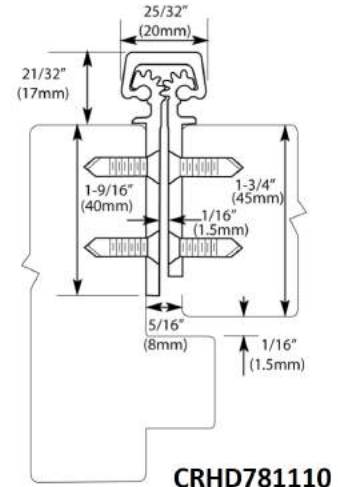
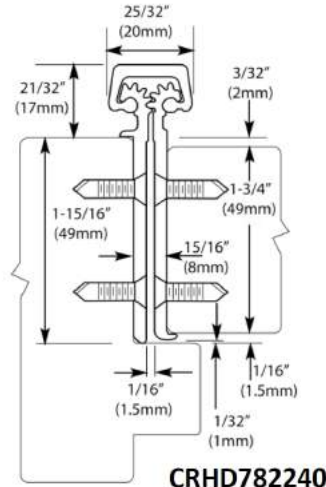
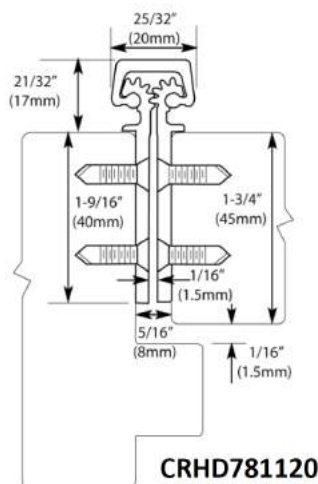
Will cover hinge cut outs in frames

Flush mount no inset

Frame and door leaf alignment ribs for proper hinge location

• **ELECTRIFICATION:**

Available. See page 26



## Full Surface • Any Door Material • Heavy Duty

Heavy Duty for high frequency 1 3/4" doors or heavy medium frequency doors up to 450 lbs.

CRHD781570 (Heavy Duty), CRHD782100 (Heavy Duty), CRHD780570 (Heavy Duty)

MODEL#	LENGTH		SCREW COUNT		CLEARANCE
	IN	CM	DOOR	JAMB	
CRHD781570	83	210.8	19	19	1/32" (1mm) minimum recommended for hinge side plus standard lock case clearance
CRHD781570	95	241.3	20	20	
CRHD782100	83	210.8	19	19	1/32" (1mm) minimum recommended for hinge side plus standard lock case clearance 1 5/8" (41mm) minimum frame face required plus 3/16" (5mm) rotational clearance
CRHD782100	95	241.3	20	20	
CRHD780570	83	210.8	8	8	1/32" (1mm) minimum required between doors
CRHD780570	95	241.3	9	9	

### FASTENERS:

Self-Tapping screws

#### Full Surface Hinges

##### 1) Frame Portion

- a) All fasteners are No. 12-24 x 1/16" Type C, FHUC
  - i) Heavy Duty Hinges - 10 required for each leaf
  - ii) Wood Screw - on request (specify on order)

##### 2) Door Portion

- a) Thru-bolt 1/4"-20 x 1 5/8" PCH
  - i) Heavy Duty Hinges – 6 required for each leaf
- b) Shoulder bolt 1/4"-20 x 1" PCH
  - i) Heavy Duty Hinges – 6 required
- c) Pan Head Self Drilling No. 12 x 3/4"
  - i) Heavy Duty Hinges – 4 required

### LENGTH OPTIONS:

### DOOR REINFORCEMENT:

### FRAME REINFORCEMENT:

### FIRE RATING:

### SPECIAL FEATURES:

83" & 95"

None needed

None needed to 200 lbs.

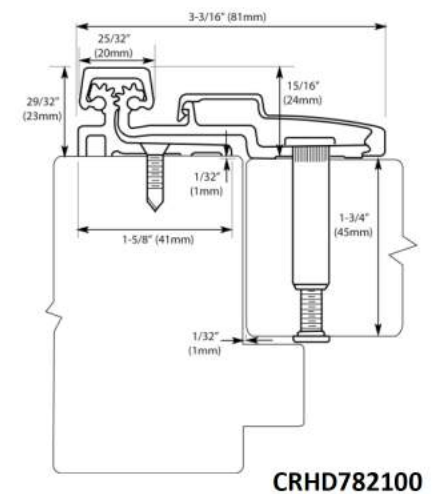
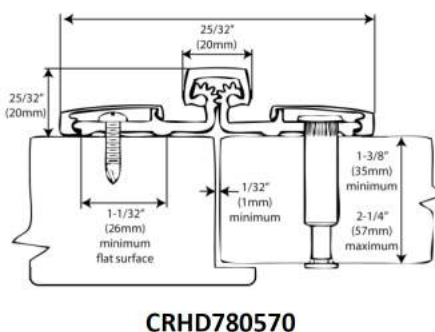
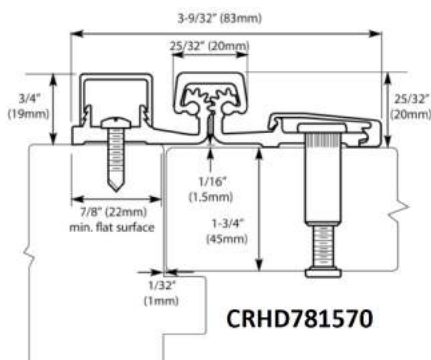
Use 16 gauge channel over 200 lbs

Up to 3 Hours.

Replacement for existing doors and frames

7/8" minimum frame

1/16" inset



## Half Surface • Any Door Material • Heavy Duty

Heavy Duty for high frequency 1 3/4" doors or heavy medium frequency doors up to 450 lbs.

CRHD780530 (Heavy Duty)

MODEL#	LENGTH		SCREW COUNT		CLEARANCE
	IN	CM	DOOR	JAMB	
CRHD780530	83	210.8	8	9	5/32" (4mm) minimum recommended hinge side plus standard lockside clearance
CRHD780530	95	241.3	19	19	

### • FASTENERS:

Self-Tapping screws

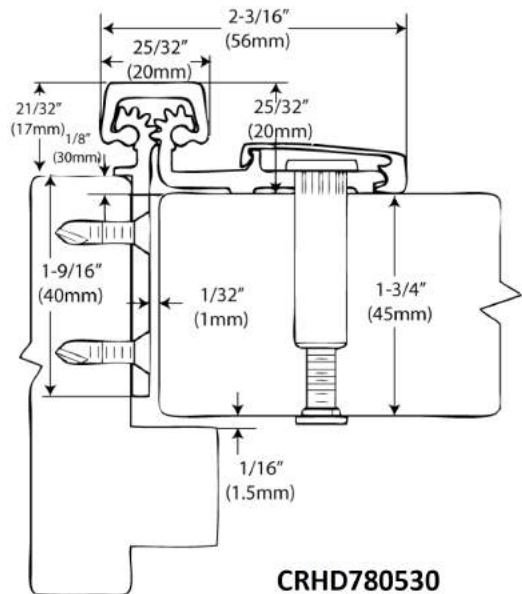
#### Full Surface Hinges

##### 1) Frame Portion

- a) All fasteners are No. 12-24 x 1/16" Type C, FHUC
- i) Heavy Duty Hinges - 10 required for each leaf
- ii) Wood Screw - on request (specify on order)

##### 2) Door Portion

- a) Thru-bolt 1/4 -20 x 1 5/8" PCH
- i) Heavy Duty Hinges – 6 required for each leaf
- b) Shoulder bolt 1/4 -20 x 1" PCH
- i) Heavy Duty Hinges – 6 required
- c) Pan Head Self Drilling No. 12 x 3/4"
- i) Heavy Duty Hinges – 4 required



- **LENGTH OPTIONS:** 83" & 95"
- **DOOR REINFORCEMENT:** None needed
- **FRAME REINFORCEMENT:** None needed to 200 lbs.  
Use 16 gauge channel over 200 lbs
- **FIRE RATING:** Up to 3 Hours.
- **SPECIAL FEATURES:**
  - For new construction
  - For renovation with new doors and / or frames
  - No mortising of doors or frames required
  - Will cover hinge cut outs in frames
  - Flush mount no inset
  - Frame and door leaf alignment ribs for proper hinge location



► **Electrification**

ITEM#	NO. OF WIRES	CONTINUOUS HINGE ELECTRIFICATION MODIFICATIONS FOR <b>CRHD781120</b> AND <b>CRHD782240</b> ONLY
CET8CRHD781120 CLR	8	Removable 12" Aluminum Gear Hinge Can easily be removed for adjustment and service.
CET8CRHD781120 DB		
CET8CRHD782240 CLR		
CET8CRHD782240 DB		
EPT	--	Cut-out according to Von Duprin Part # EPT-10 and Cal-Royal CRPT-10, CRPT-10C and CRPT-2 location

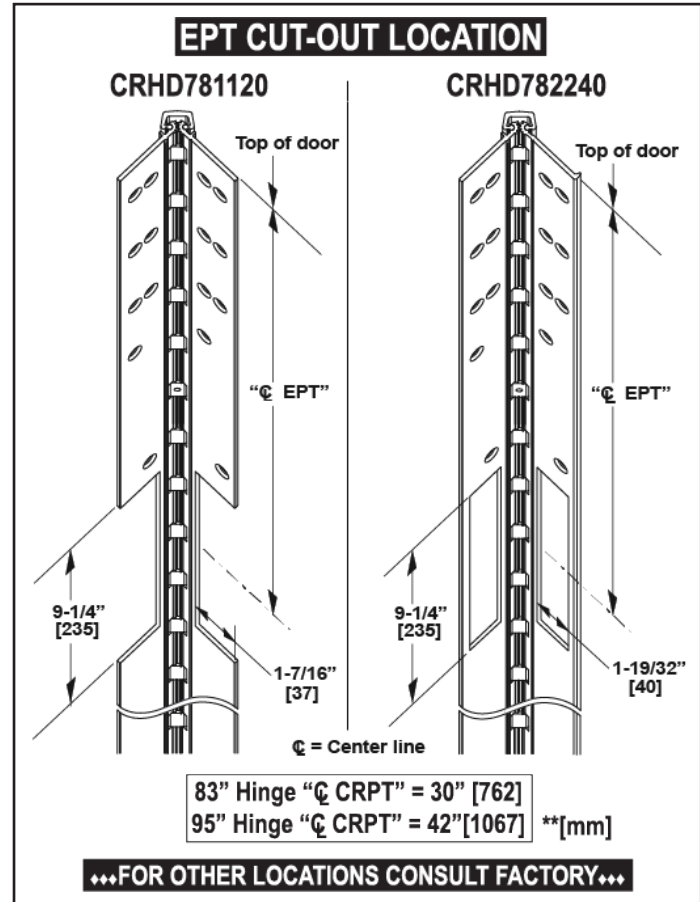


CET8CRHD782240



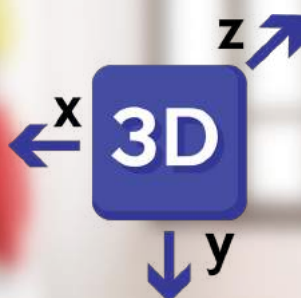
CET8CRHD781120

...



**CONTINUOUS HINGE MODEL CROSS REFERENCE**

CAL-ROYAL	ROTON	PEMKO	MARKAR	MCKINNEY	ZERO	STANLEY	ABH	SELECT
CRHD781120	780-112HD	FMSLFHD	FM2000	MCK12HD	910DB	661HD	A110HD	SL11HD
CRHD782240	780-224HD	FMHD	FM2001	MCK25HD	914DB	662HD	A240HD	SL24HD
CRHD781570	780-157HD	FSCPHD	---	MCK58HD	935DB	664HD	A570HD	SL57HD
CRHD782100	780-210HD	FSHD	FM2009	MCK22HD	930DB	665HD	A210HD	SL21HD
CRHD781110	780-111HD	FMSLIHD	---	MCK-14HD	---	---	A111HD	SL18HD
CRHD780530	780-053HD	---	---	---	925DB	---	A530HD	SL53HD
CRHD780570	---	---	FS 2002	---	---	---	A571HD	SL60HD



# 3D INVISIBLE HINGES

*100% Made in Italy*



## 3D INVISIBLE HINGES

### MAIN FEATURES

- » Zinc Alloy manufactured for Oxidation Resistance
- » Durable Galvanized Steel Covers to conceal the screws
- » Used for Wood and Hollow Metal Doors
- » **Easy 3D Adjusting System**
- » Easy Installation and Maintenance Free
- » Complete Reversibility (same slot on the door and the frame)
- » Total Recessed Hinge Body (door and frame gap is very small)
- » **UL Listed for 2-Hour Fire Rated Doors**
- » **European Standard EN1634-1 for 120-Minute Fire Doors**
- » **CE Certified for 200,000 Opening / Closing Cycles**
- » **100% Made in Italy**
- » Elegant Minimalistic Design that is available in **US1, US4, US10B, US14, US15, US26, US26D** and **US28** finishes with no visible screws



### CR3D62

Dimensions: 6 5/16" x 1 1/4"  
(160 x 32 mm)

### TECHNICAL SPECIFICATIONS:

180° Fluid Opening

1 1/2" (38mm) minimum door thickness

Overall Length: 6 5/16" (160mm)

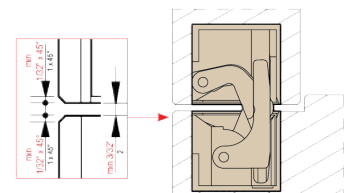
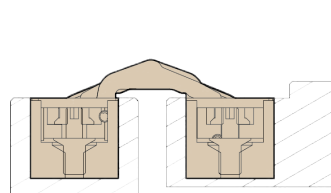
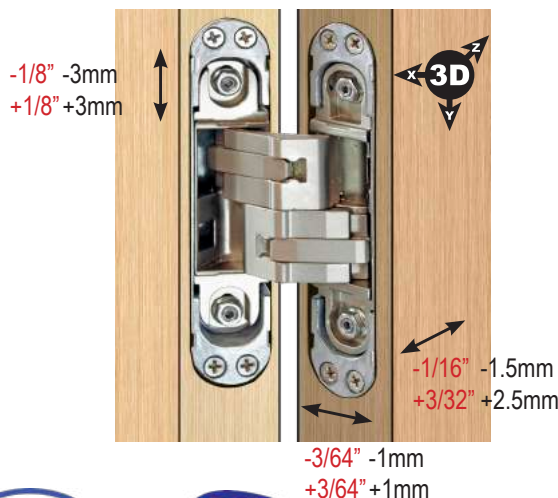
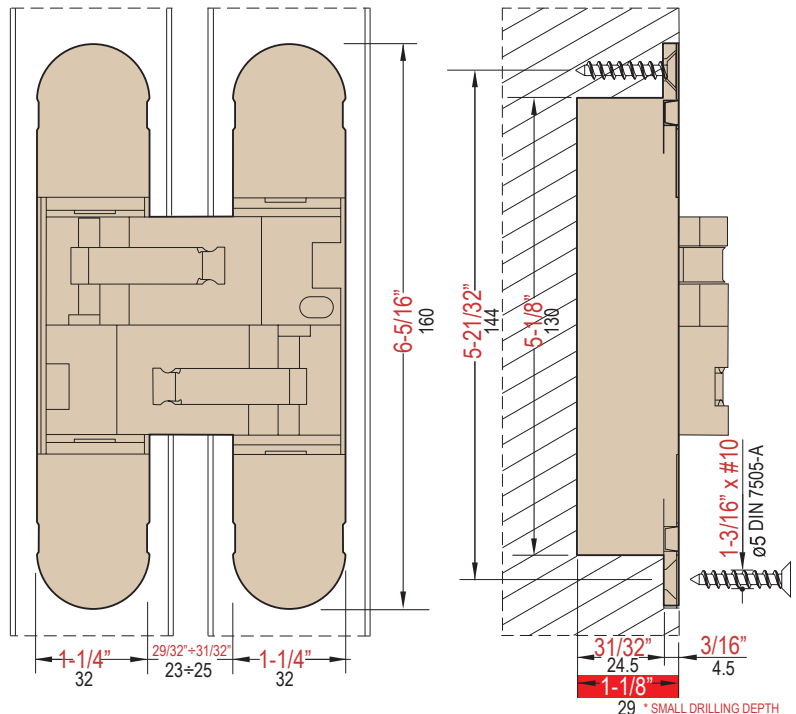
Width (frame part): 1 1/4" (32mm)

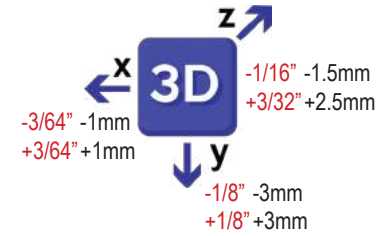
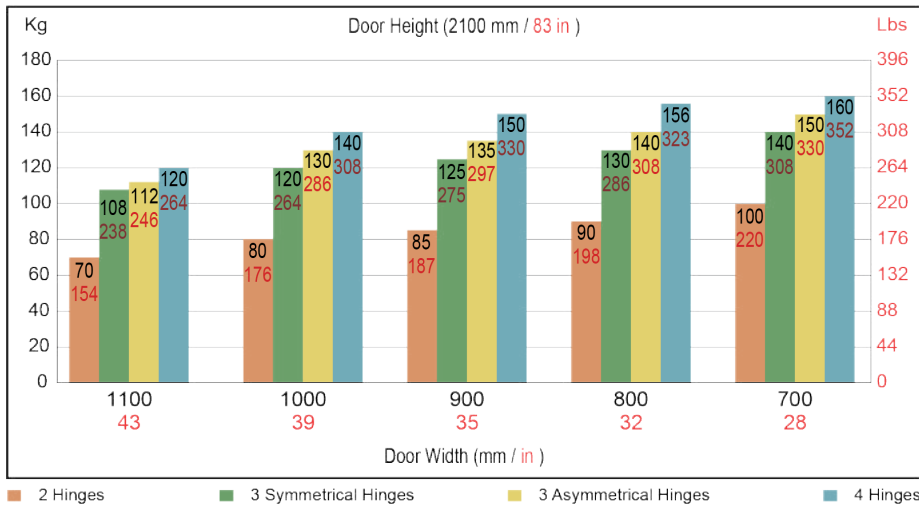
Width (door part): 1 1/4" (32mm)

Depth: 1 1/8" (29mm)

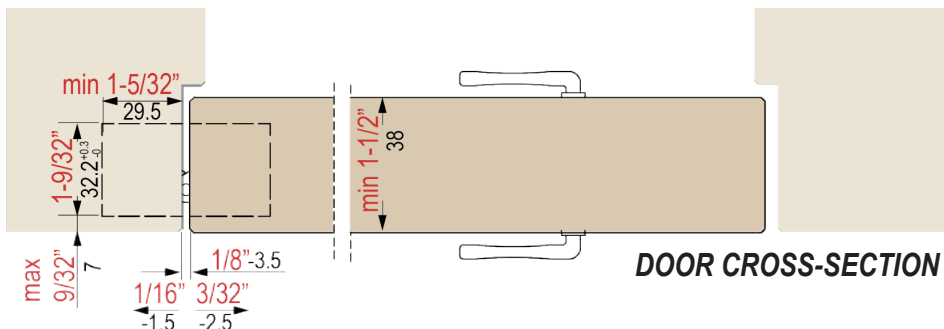
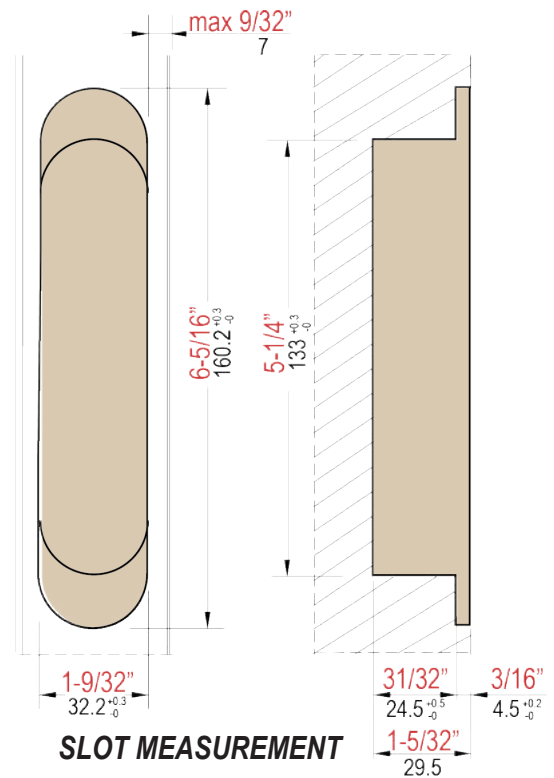
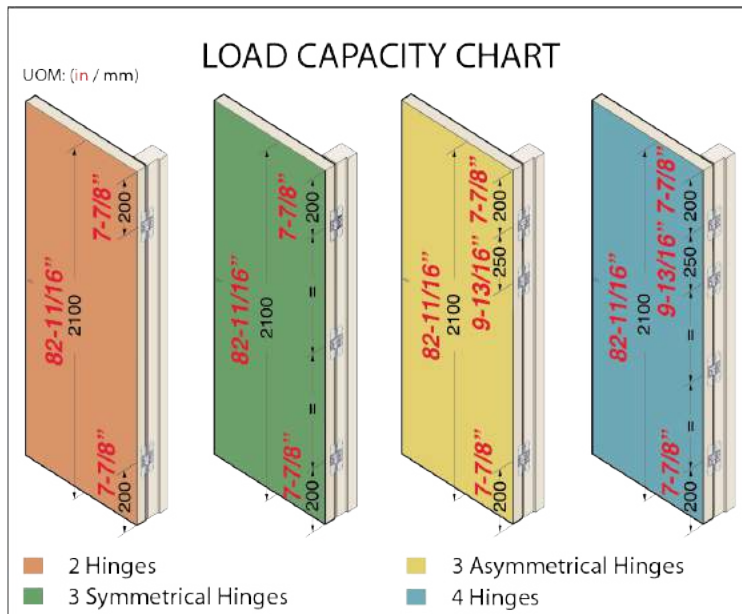
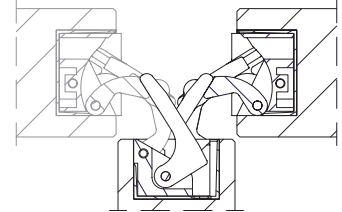
Load Capacity: 3 or 4 Hinges - 120kg (265lbs)  
2 Hinges - 80kg (177lbs)

Fire Proof Min. : EI-120'





Reversible for doors from:  
1 1/2" (38mm) to 1 13/16" (46mm)





## 3D INVISIBLE HINGES

### MAIN FEATURES

- » Zinc Alloy manufactured for Oxidation Resistance
- » Durable Galvanized Steel Covers to conceal the screws
- » Used for Wood and Hollow Metal Doors
- » **Easy 3D Adjusting System**
- » Easy Installation and Maintenance Free
- » Complete Reversibility (same slot on the door and the frame)
- » Total Recessed Hinge Body (door and frame gap is very small)
- » **CE Certified for 200,000 Opening / Closing Cycles**
- » **100% Made in Italy**
- » Elegant Minimalistic Design that is available in **US1, US4, US10B, US14, US15, US26, US26D and US28** finishes with no visible screws



### CR3D51

Dimensions: 5 1/8" x 1 3/16"  
(130 x 30 mm)

### TECHNICAL SPECIFICATIONS:

180° Fluid Opening

1 3/8" (35mm) minimum door thickness

Overall Length: 5 1/8" (130mm)

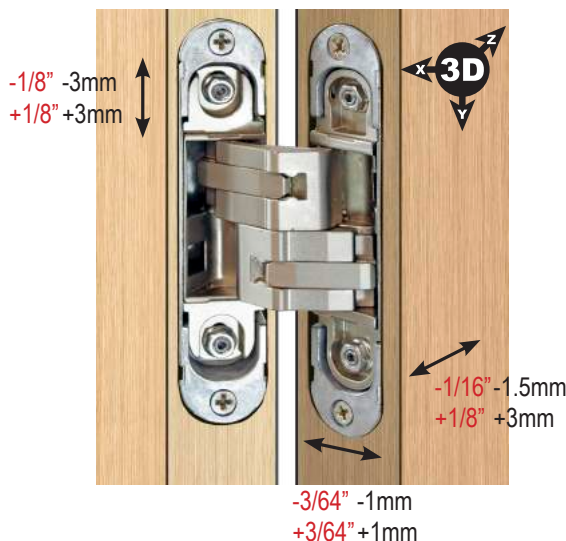
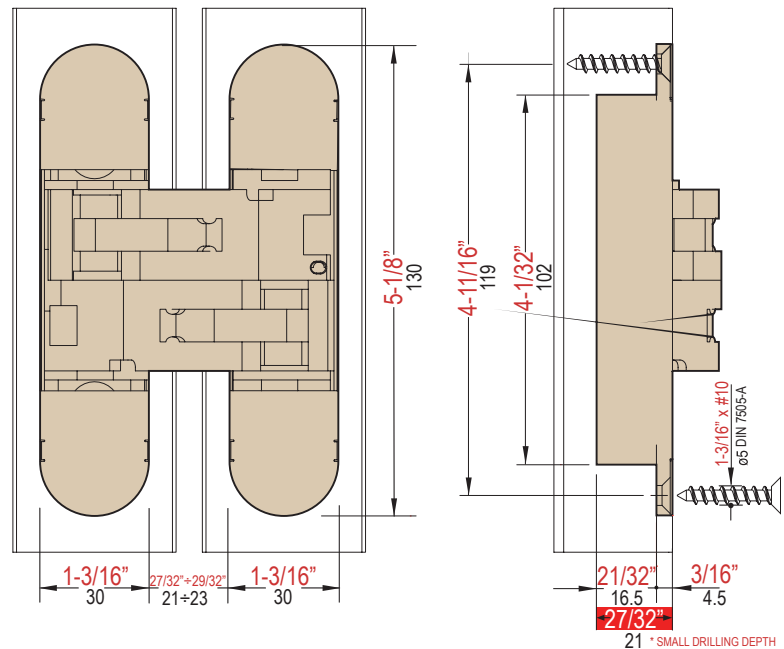
Width (frame part): 1 3/16" (30mm)

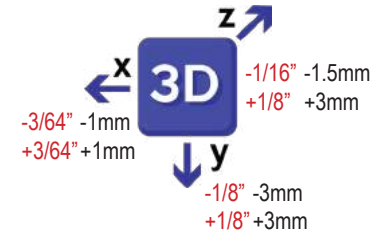
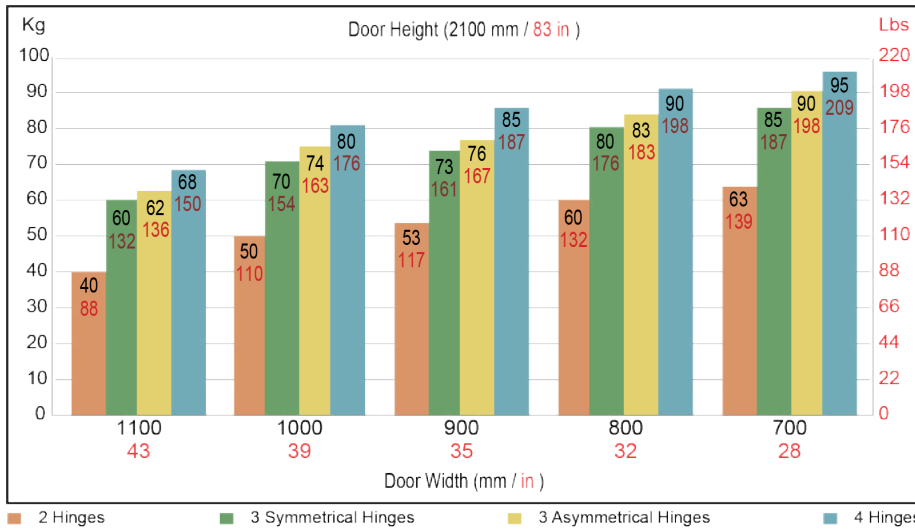
Width (door part): 1 3/16" (30mm)

Depth: 13/16" (21mm)

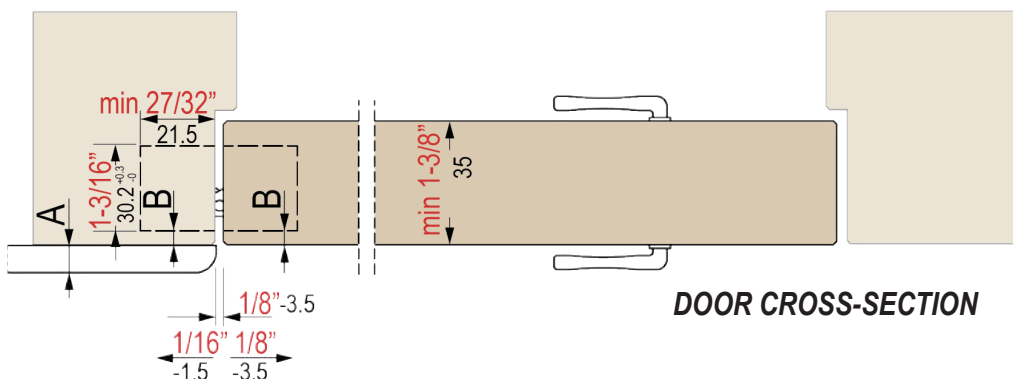
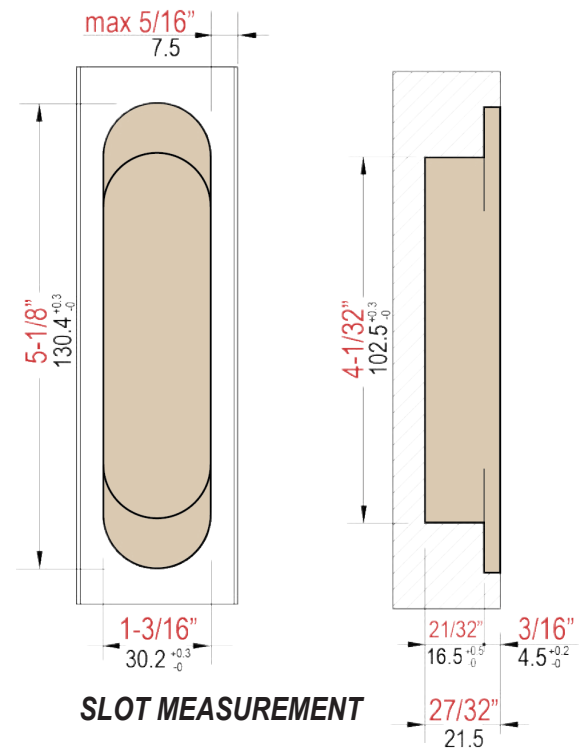
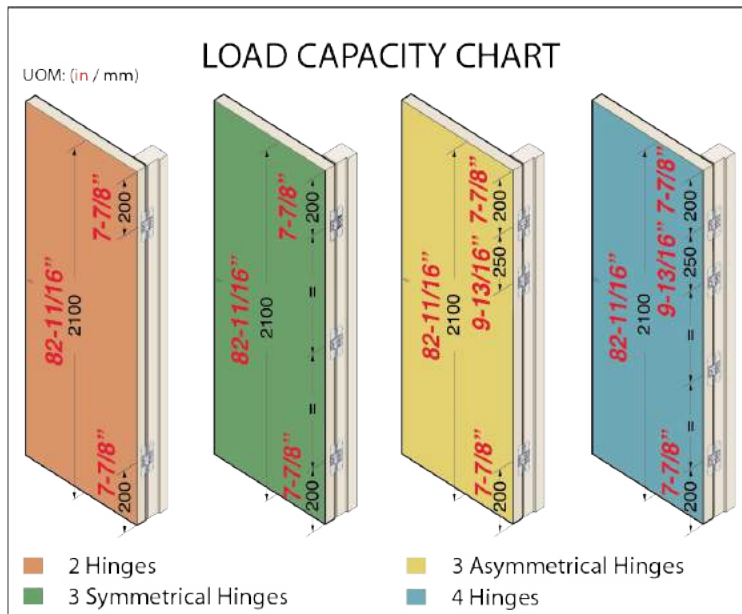
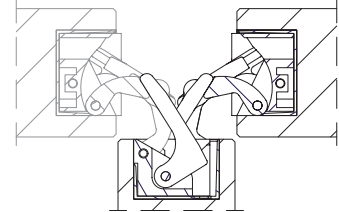
Load Capacity: 3 or 4 Hinges - 70kg (154lbs)  
2 Hinges - 50kg (110lbs)

Fire Proof Min. : EI-30'





Reversible for doors from:  
1 3/8" (35mm) to 1 3/4" (45mm)

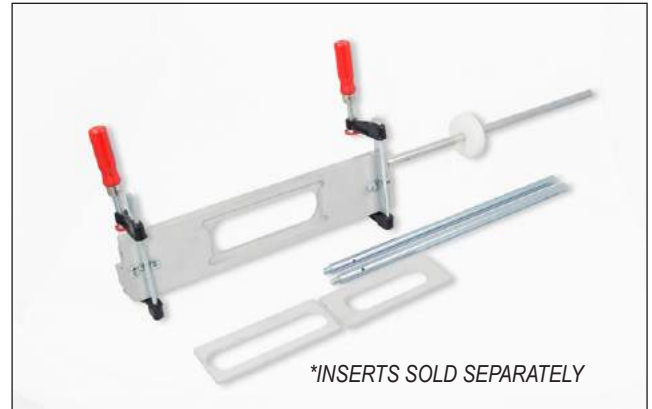


A	B
0.61" (15.5mm)	0.10" (2.5mm)
0.57" (14.5mm)	0.12" (3mm)
0.53" (13.5mm)	0.14" (3.5mm)
0.47" (12mm)	0.16" (4mm)
0.39" (10mm)	0.18" (4.5mm)
0.31" (8mm)	0.20" (5mm)

## 3D HINGE ACCESSORIES

### 3D-DT (DRILLING TEMPLATE)

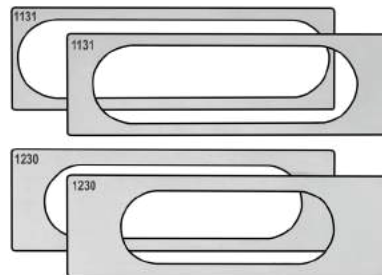
- » The 3D-DT drilling template consists of a frame and two inserts, enables implementation of two slots for the invisible hinges, and is made of  $\frac{3}{16}$ " (5mm) thick aluminum plates.
- » The strength of the material guarantees precise execution of the slots with a manual pantograph ( $\frac{5}{8}$ " diameter cutter and  $1\frac{1}{16}$ " external ring provided for all manual pantographs).
- » For each hinge model, **two types of insertions** (easily replaceable) are used:
  1. To execute the butt slots
  2. For the internal depth slot
- » It also comes with extension arms and nylon ring to establish the desired distance between slots on the door - both left and right - and on the frame.



#### \*Blocking Clamps

**Very important for the correct use and assembly of the insert. The reference is printed on the template and the code is printed on the same side of the inserts.**

**1131 - for CRD62 hinge models**  
**1230 - for CR3D51 hinge models**



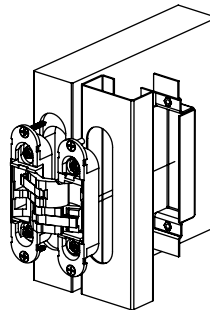
#### INSERTS FOR DRILLING TEMPLATE

- » **3D-51TI** - CR3D51 Inserts
- » **3D-62TI** - CR3D62 Inserts

**NOTE: Must order inserts when ordering 3D-DT (drilling template)**

### 3D-MTR (Metal Door Receiver)

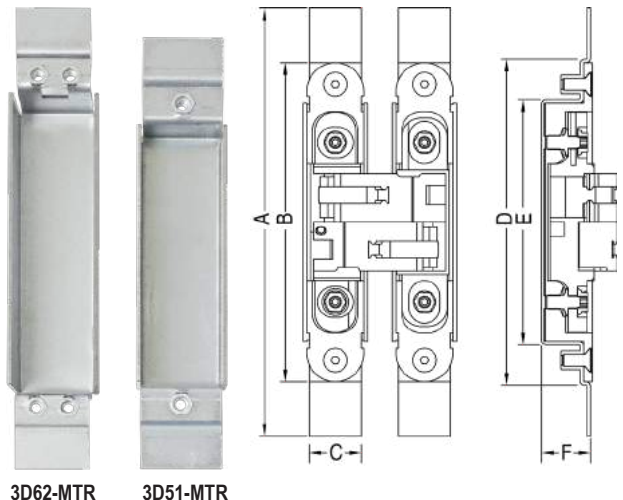
- » Support for Steel Doors
- » Galvanized Finish
- » Installation with Welding
- » Suitable for right and left hand applications
- » **3D51-MTR** - CR3D51 Metal Door Receiver
- » **3D62-MTR** - CR3D62 Metal Door Receiver
- » **3D-MSCREWS** - 10-32 x  $\frac{3}{4}$ ", #9 Head Machine Screws



**NOTE: Must order machine screws when ordering Metal Door Receiver**



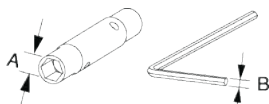
ITEM NO.	A	B	C	D	E	F
3D51-MTR	$7\frac{3}{32}$ " 180mm	$5\frac{1}{8}$ " 130mm	$1\frac{1}{8}$ " 29mm	$5\frac{1}{4}$ " 133mm	$4\frac{1}{8}$ " 105mm	$27\frac{3}{32}$ " 21mm
3D62-MTR	$7\frac{13}{16}$ " 198mm	$6\frac{11}{32}$ " 161mm	$1\frac{3}{16}$ " 30mm	$6\frac{15}{32}$ " 164mm	$5\frac{1}{4}$ " 133mm	$1\frac{7}{32}$ " 31mm



### 3D-ATK (ADJUSTMENT TOOL KIT)

- » Used for vertical, horizontal, and depth hinge adjustments
- » **3D51-ATK** - CR3D51 Adjustment Tool Kit
- » **3D62-ATK** - CR3D62 Adjustment Tool Kit

ITEM NO.	A	B
3D51-ATK	$\frac{5}{16}$ " (8mm)	$\frac{3}{32}$ " (2.5mm)
3D62-ATK	$\frac{3}{8}$ " (10mm)	$\frac{1}{8}$ " (3mm)



### 3D HINGE COVERS

- » **3D51COV** - Extra Covers for CR3D51
- » **3D62COV** - Extra Covers for CR3D62



### 3D-SCREWS

- » Extra mounting screws for CR3D51 and CR3D62 hinge models
- » Size:  $1\frac{3}{16}$ " x #10
- » 12 pcs per bag



## TECHNICAL INFORMATION for CR3D62 and CR3D51

The following parameters must be considered during the choice of the hinges, in order to prevent damage:

- Place of use and frequency of opening
- Door dimensions
- Weight of the door leaf
- Placement and installation of the hinges
- Door closer
- Coating or baseboard
- Automatic or semi-automatic opening systems

In applications like public buildings, where, due to the high opening frequencies and volume of traffic are difficult to predict, it is recommended that additional hinge be used even if the weight of the door does not require it.

All CRP hinges follow the standard regulations and passes all the necessary tests of stress, corrosion resistance, fire resistance, flow and durability.

CRP tests its hinges on doors to 7'0" x 33" (2100 x 850 mm) or 7'0" x 39" (2100 x 1000 mm).

Even though the 3D hinges are maintenance-free, for an ideal performance, it is advisable to lubricate the hinge once every two years, or more, depending on the frequency of opening.

### FOURTH HINGE

In some cases, the use of a fourth hinge may be decisive for the capacity, placing it in support of the upper hinge, on which act the main traction forces. In case of big widths (>35" / >900 mm) or heights (>7'0" / >2100 mm) when different forces are produced by leverage effect and center of gravity moves, the fourth hinge must be installed in the upper part of the door, because only in this position can it positively affect the weight capacity. CRP therefore advises to install 9 <sup>27</sup>/<sub>32</sub>" (250 mm) (away from the hinge at the top. In case of door height > 106 <sup>5</sup>/<sub>16</sub>" (2700mm) please contact technical department.

When using the door closer, CRP suggest mounting a fourth hinge in the upper part of the door, as these mechanisms modify the opening forces,

increase the load and may alter the capacity of the hinges. In particular:

- For closers without opening force CRP suggest considering 20% more of the real door weight.
- For closers with opening force the effect is much greater; it is estimated that the leaf effective mass is 75% bigger of the actual one.



## NOTES

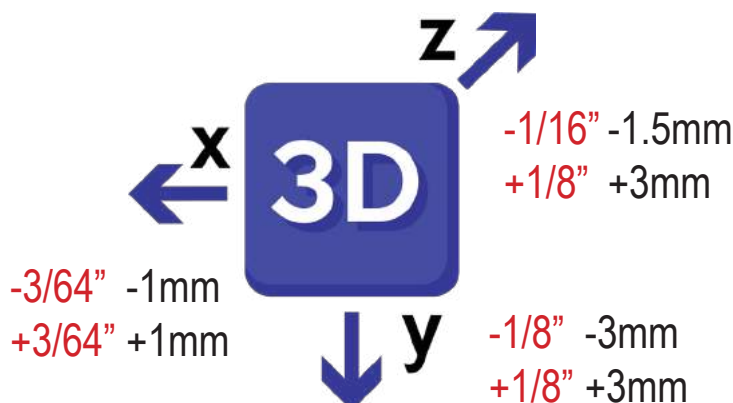
The information herewith reported are indicative guidelines. In practice, the variables that affect the correct functioning of the hinge are several:  
according to the nature of the door, transit and employment, it can certainly be reasonable to analyze every single application. The customer must be sure hinges' proportions are enough to satisfy even external factors beyond what is indicated by tests. If necessary, please contact our technical department.

## ADJUSTMENT IN 3 DIMENSIONS

Every adjustment requires adequate attention. The adjustment range indicated must be absolutely followed. Excessive force during adjustments can lead to a possible malfunction that could cause system failure.

## ZERO POSITION

All CRP 3D hinges are delivered with all the adjustments centered.  
After installation and after each adjustment all components must be tightened firmly.



## ADJUSTMENT ON THE THREE INDEPENDENT AXES

Horizontal from  $-1/16''$  to  $+1/8''$  (see individual specifications)

Vertical from  $-1/8''$  to  $+1/8''$  (see individual specifications)

Depth  $\pm 3/64''$

## HORIZONTAL ADJUSTMENT

Slightly loosen the locking nuts.

With the aid of the Allen key, move the internal cage to find the preferred position.

Tighten all lock nuts.

## VERTICAL ADJUSTMENT

Slightly loosen the locking nuts.

By acting on the door leaf, raise it to the required level.

Tighten all lock nuts.

## DEPTH ADJUSTMENT

Slightly loosen the locking nuts.

Act with hexagonal Allen key to make the adjustment.

Tighten all lock nuts.

All adjustments are carried out with  $5/16''$  hex wrench and Allen key  $3/32''$  (for CR3D62 hinge, to be made with a hexagonal  $3/8''$  and  $1/8''$  Allen key).



# PIVOT HINGES



## PIVOT HINGE

Pivot sets are designed to work with the laws of physics to provide long-lasting performance and reliability. Offset pivots provide better weight distribution and can accommodate taller doors

### The weight of the door is supported at the bottom by the floor

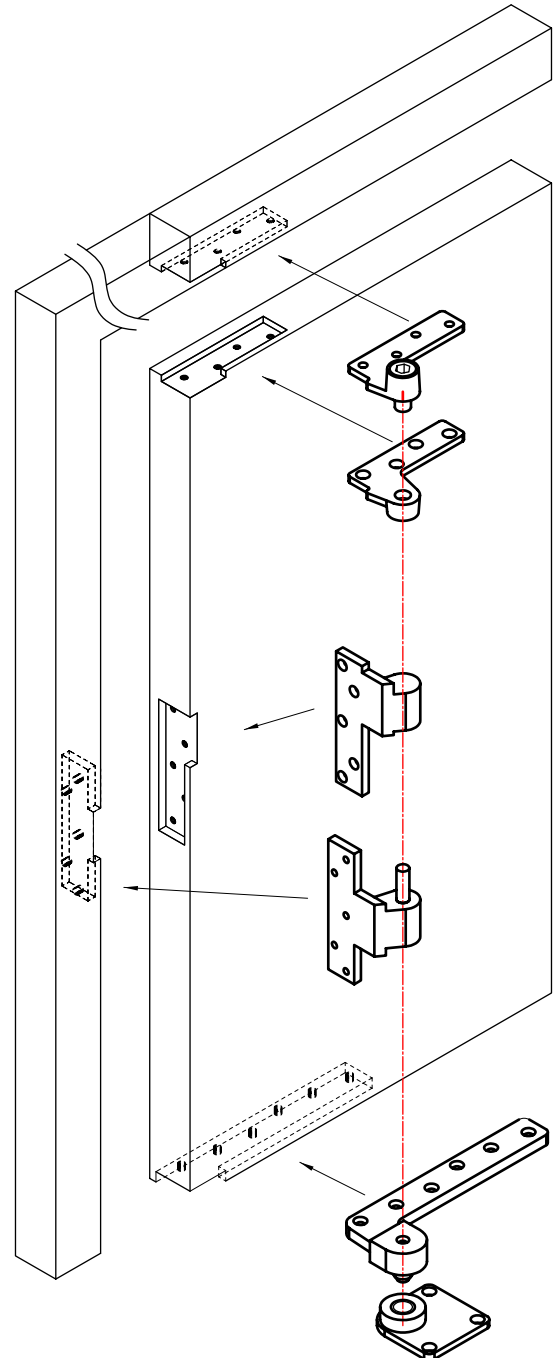
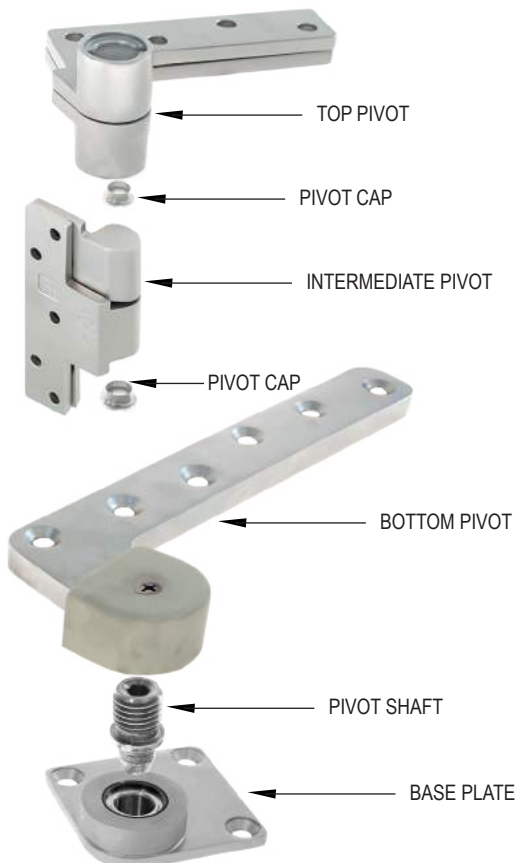
- ▶ Uses principles of gravity to its advantage
- ▶ Door swings with less resistance
- ▶ Heavier doors can be accommodated

### Reduced stress on frame

- ▶ Fasteners are in shear, not tension
- ▶ Eliminates door sag
- ▶ Vertically adjustable

### Heavy duty hardened steel spindles

- ▶ Thrust bearing supports vertical load
- ▶ Needle bearings and bushings for lateral force
- ▶ Extra heavy-duty models also have an additional surface applied thrust bearing to handle heavier or high-traffic doors



**INSTALLATION DIAGRAM**

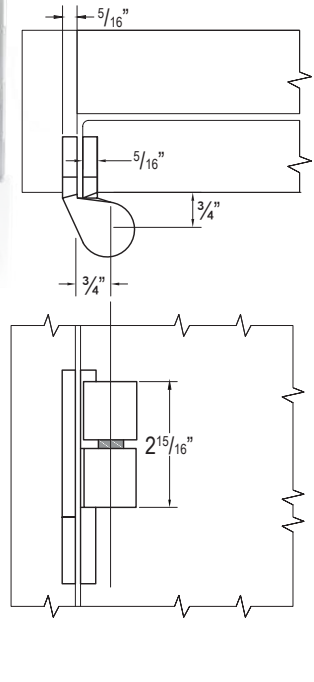
## INTERMEDIATE PIVOT

### MAIN FEATURES

- ▶ Heavy Duty Full Mortise
- ▶ Handed
- ▶ Maintains door alignment
- ▶ Aids in installing floor closer and bottom pivots
- ▶ Stainless Steel material with high corrosion resistance
- ▶ Door thickness minimum 1 3/4"
- ▶ Maximum door load: 600 pounds
- ▶ Vertical adjustment 3/16" include positive locking



**PV010**



### ELECTRIFICATION

- ▶ For medium and heavy wood and metal doors in high traffic areas
- ▶ **4 wires, 26 gauge**
- ▶ Can be used on exterior and interior doors
- ▶ Can be used with top and bottom pivots
- ▶ Handed
- ▶ Not load bearing
- ▶ Maintains door alignment and aids in installing bottom pivots
- ▶ Doors 60" to 90" in height should use one intermediate pivot
- ▶ Each additional 30" warrants another intermediate pivot
- ▶ Vertical adjustment up to 3/16"
- ▶ Fasteners: 8 pcs wood screws and 8 pcs. machine screws

ITEM #	SIZE	OFFSET	THICKNESS
ELEPV010-RH	5" x 4 1/4"	3/4"	5/16"
ELEPV010-LH	5" x 4 1/4"	3/4"	5/16"



**ELEPV010**



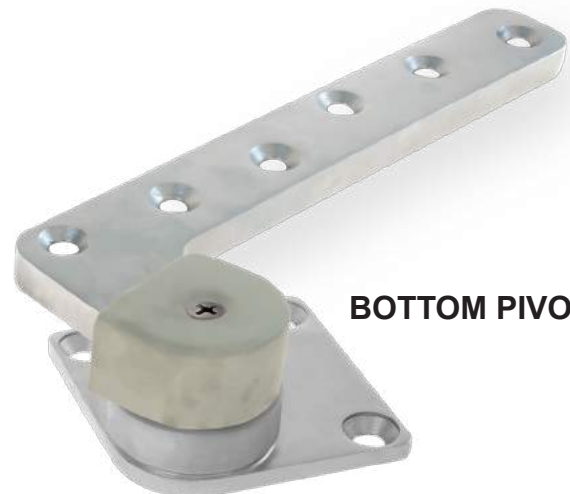
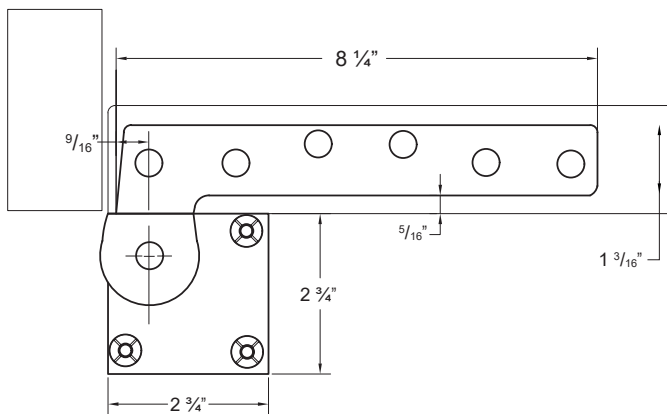
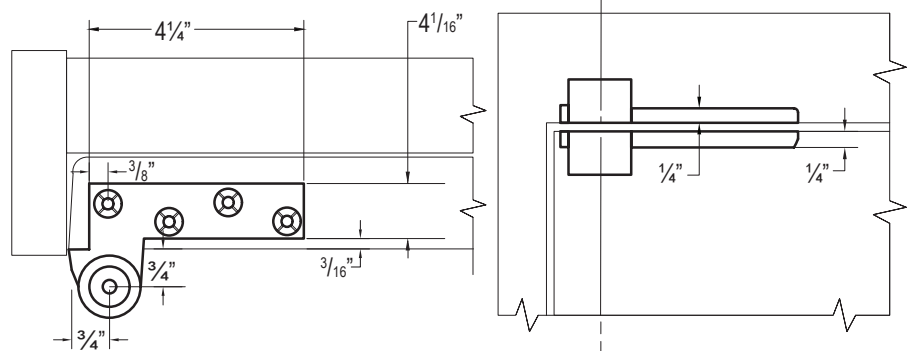
## TOP AND BOTTOM OFFSET PIVOT SET PV001

### MAIN FEATURES

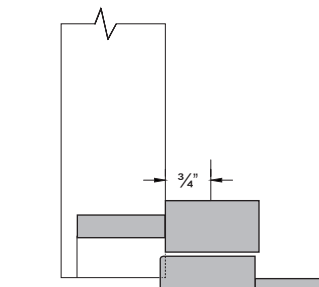
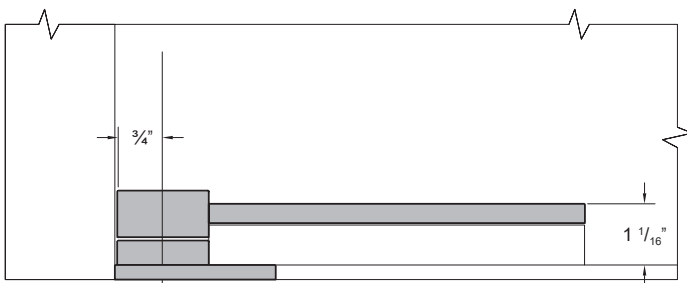
- ▶ Full Mortise
- ▶ Non-Handed
- ▶ 3/4" Offset pivot
- ▶ Standard top pivot for most offset pivot sets and floor closers
- ▶ Use with 1 3/4" door minimum thickness with 1/8" bevel in 2"
- ▶ Maximum door load: 600 pounds
- ▶ Vertical adjustment range 3/16"
- ▶ Stainless Steel material with high corrosion resistance
- ▶ *Top and bottom pivot is sold as set*



**TOP PIVOT**



**BOTTOM PIVOT**







# EXIT DEVICES



EXIT DEVICES



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## A7700 & AF7700 Rim Type Panic and Fire Exit Devices (ADA) A7760V & AF7760V Vertical Rod Panic and Fire Exit Devices (ADA) ANSI A156.3, Grade 1



### Features & Construction

- ◆ **Retrofits Von Duprin 99 & 98 Series using 7700 Escutcheon Trim**
- ◆ Americans with Disability Act (ADA) compliant. 5lbs opening force on ADA product only
- ◆ For use in institutions, schools, universities, commercial buildings where heavy duty reliable operation is a requirement
- ◆ ANSI A156.3, Grade 1 heavy duty exit device in surface vertical rod and rim designs
- ◆ Rail assemblies are heavy duty extruded aluminum body with Stainless Steel push pad and end caps are made of brass, bronze or stainless steel. Rail travels in direction of the door swing
- ◆ Trims are thru-bolted for additional security
- ◆ Conforms & Meets ADA Regulations

CONFIGURATION	MAX FRAME DIMENSIONS	LOCK TYPE	DESIGN PRESSURE (PSF) OUTSWING	
			POSITIVE	NEGATIVE
SINGLE	40" x 88"	F7700V SERIES F7700 SERIES	+70.0	-70.0
	52" x 98"		+50.0	-50.0
DOUBLE	76" x 88"	F7700V SERIES	+70.0	-70.0
	100" x 98"		+50.0	-50.0

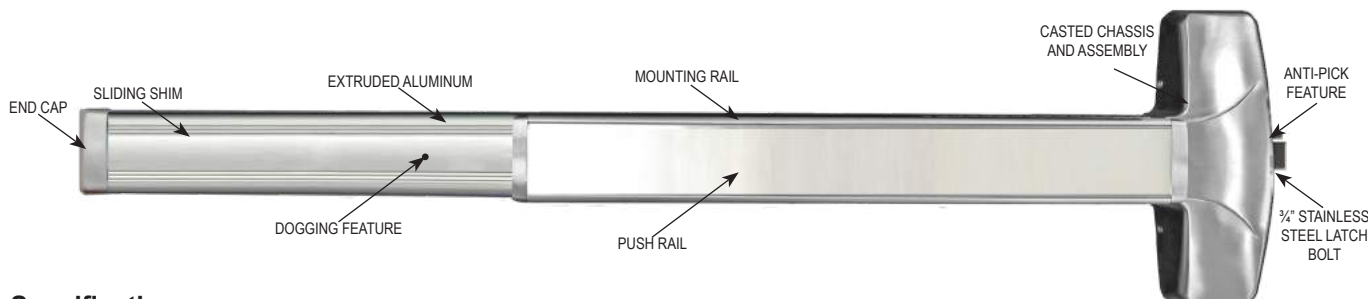
- ◆ UL Listed for Panic and ULC10C, UBC 7-2-1997 codes
- ◆ UL Listed for Fire Exit Hardware. 3 hours
- ◆ (A) label rating on pairs of doors up to 8'0" x 8'0" swinging in same or opposite directions
- ◆ Uncompromising security and safety in single and double fire exit doors
- ◆ Chassis mounted unit construction. Rim and vertical rod devices are non-handed and easily reversible
- ◆ Available in many different functions. Lever and escutcheon trims are grade 1 construction with clutch on rose trims. Escutcheon trims are rigid and covers 161 cut out.

### Suggested Architect's Specifications

- ◆ All exit devices shall be of touch bar design with smooth operation and be operative over  $\frac{2}{3}$  of the door's clear opening width
- ◆ All exit devices must be listed under "Panic Hardware" in the Accident Equipment List of Underwriters' Laboratories, Inc. Where labeled doors are used as exits, they must be equipped with labeled Fire Exit Hardware and UL10C, UBC 7-2-1997 codes
- ◆ All springs shall be of Stainless Steel throughout
- ◆ All exit devices shall be of chassis mounted unit construction.
- ◆ All exit devices shall be ANSI A156.3, Grade 1

# A7700 & AF7700 ADA Series

## GRADE 1, Rim Type Exit Device



### Specifications

For Doors.....	1 3/4" thick standard optional 2 1/4" thick. 4 1/2" minimum stile width for single or double door application using standard 938 strike and pull lever, thumbpiece and escutcheon trims. 2 3/4" backset
Chassis.....	Non-ferrous Alloy (Panic Grade), Steel (Fire Grade)
Cover.....	Non-ferrous plated material. Covers stock hollow metal doors with 161 cut out
Mounting.....	Furnished with wood and machine screws. Available thru-bolts on request. <b>Thru-bolts are included and standard packaging on fire rated devices</b>
End Cap.....	Brass, Bronze or Stainless Steel construction
Alarm.....	Available. Prefix "NALRM" before MODEL #
Hand.....	Non-handed, center hub for 2 3/4" backset
Latch Bolt.....	Stainless Steel 3/4" throw with anti-pick feature
Spring.....	Stainless Steel throughout
ANSI Standard.....	A156.3, Grade 1
Rail Assembly.....	Heavy gauge extruded aluminum body with Stainless Steel push pad
Strike.....	938 packed standard (See strike page)
Dogging Feature.....	Allen-type key furnished standard on non-fire labeled devices
Mullion.....	Available
UL and ULC Listed.....	A7700 Series for panic. AF7700 Series for fire exit hardware for all types of 4' x 8' single doors and 8' x 8' double doors for up to 3 hour fire labeled installations. Conforms to standards UL10C and UBC 7-2-1997 codes
Finish.....	Architectural plated finishes
Electronic Functions.....	(ELR) Electrical Latch Retraction and RX & LX Signal Switch available
Anti-Microbial Coating.....	Available on US32D only. Use part # ANT8-EXIT

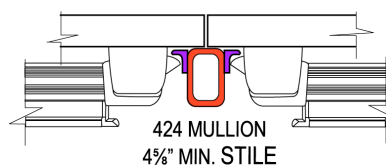
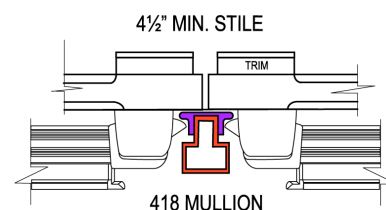


**\*Americans with Disability Act (ADA) compliant  
5 lbs opening force on ADA Series only**

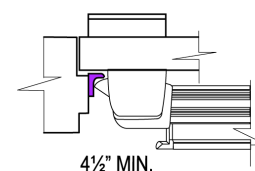
**\*Refer to the Price List for Stock Sizes and Finishes**

### 4 1/2" Minimum Stile Requirements

#### DOUBLE DOOR



#### SINGLE DOOR



### DIMENSIONS

Touchbar height to finished floor 41" (1041 mm) at center

#### Touchbar projection

Neutral 3 5/8" (92 mm)

Depressed 2 7/8" (73 mm)

Center case 8 1/16" x 2 3/4" x 2 1/2" (205 mm x 70 mm x 63 mm)

MODEL	ACTUAL LENGTH	MAX CUT DOWN	DOOR SIZE
A7700EO36, AF7700EO36	32"	6"	30" to 36" door width
A7720EO48, AF7720EO48	44"	10"	38" to 48" door width

# A7760V & AF7760V ADA Series

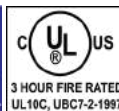
## GRADE 1, Vertical Rod Type Exit Device



**LIFETIME  
WARRANTY**

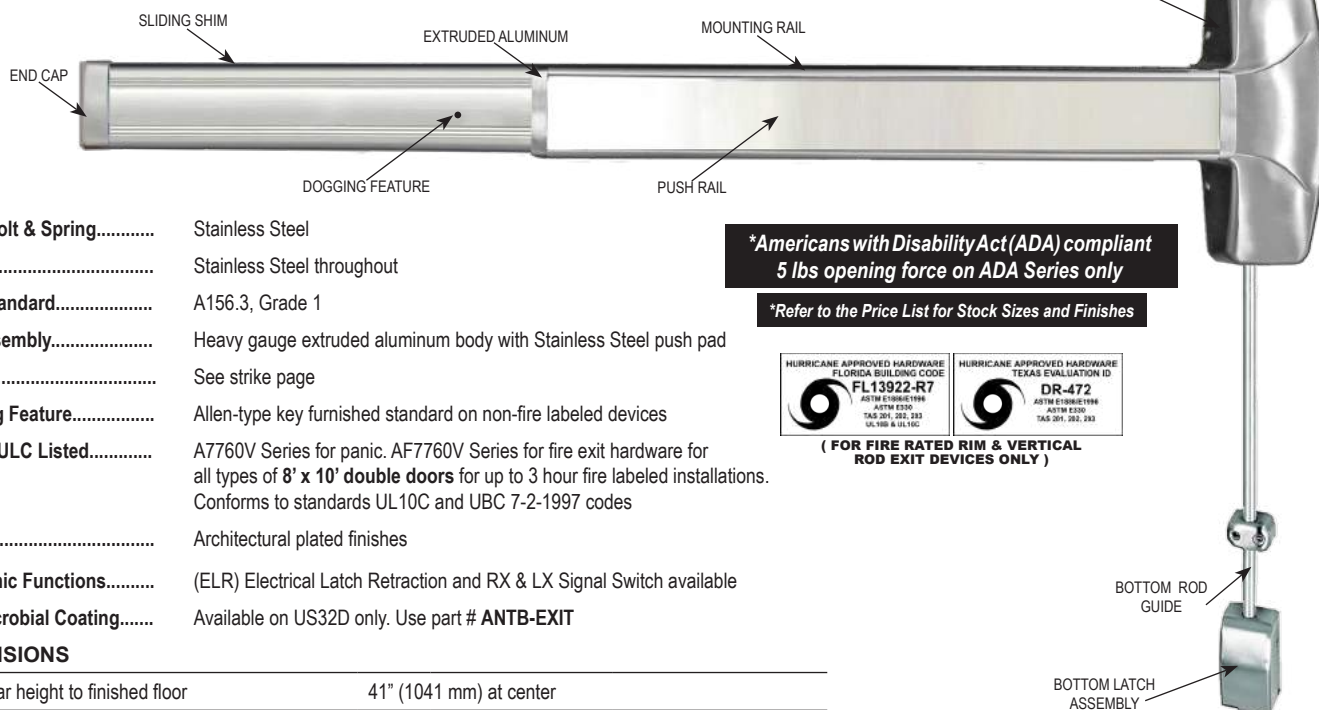
**BHMA™  
CERTIFIED**  
Be Safe. Be Secure. Look for the Mark.

**MEETS**  
*The Buy American Act*



### Specifications

<b>For Doors.....</b>	1 3/4" thick standard optional 2 1/4" thick. 3 3/4" minimum stile width required for single door application. 3 1/2" minimum stile width required for double door application. Lever, thumb piece and escutcheon trims available. 2 3/4" backset
<b>Top &amp; Bottom Chassis.....</b>	Non-ferrous Alloy (Panic Grade), Steel (Fire Grade)
<b>Cover.....</b>	Non-ferrous plated material. Covers stock hollow metal doors with 161 cut out.
<b>Mounting.....</b>	Furnished with wood and machine screws. <b>Thru-bolts are included and standard packaging on fire rated devices.</b>
<b>End Cap.....</b>	Brass, Bronze or Stainless Steel construction
<b>Alarm.....</b>	Available. Prefix "NALRM" before MODEL #
<b>Hand.....</b>	Handed. Easily field reversible. Specify at time of order LHR, RHR for convenience



<b>Latch Bolt &amp; Spring.....</b>	Stainless Steel
<b>Spring.....</b>	Stainless Steel throughout
<b>ANSI Standard.....</b>	A156.3, Grade 1
<b>Rail Assembly.....</b>	Heavy gauge extruded aluminum body with Stainless Steel push pad
<b>Strike.....</b>	See strike page
<b>Dogging Feature.....</b>	Allen-type key furnished standard on non-fire labeled devices
<b>UL and ULC Listed.....</b>	A7760V Series for panic. AF7760V Series for fire exit hardware for all types of 8' x 10' double doors for up to 3 hour fire labeled installations. Conforms to standards UL10C and UBC 7-2-1997 codes
<b>Finish.....</b>	Architectural plated finishes
<b>Electronic Functions.....</b>	(ELR) Electrical Latch Retraction and RX & LX Signal Switch available
<b>Anti-Microbial Coating.....</b>	Available on US32D only. Use part # ANT-B-EXIT

**\*Americans with Disability Act (ADA) compliant  
5 lbs opening force on ADA Series only**

**\*Refer to the Price List for Stock Sizes and Finishes**



### DIMENSIONS

Touch bar height to finished floor	41" (1041 mm) at center
Touch bar projection	
Neutral	3 5/8" (92 mm)
Depressed	2 7/8" (73 mm)
Center case	8 1/16" x 2 3/4" x 2 1/2" (205 mm x 68 mm x 62 mm)
Panic grade top & bottom latch case	3 15/16" x 2 1/8" x 1 3/8" (100 mm x 52 mm x 42 mm)
Fire grade top latch case	3 15/16" x 2 9/16" x 2 1/8" (100 mm x 68 mm x 53 mm)
Fire grade bottom latch case	3 15/16" x 2 1/8" x 1 3/8" (100 mm x 52 mm x 42 mm)
Top and bottom rod length for 36" x 84" doors	Top rod 37 1/2" (955 mm), bottom rod 35 5/8" (905 mm)
Top and bottom rod length for 48" x 96" doors	Top rod 49 5/8" (1260 mm), bottom rod 35 5/8" (905 mm)
Vertical Rods	1/2" (13 mm) Round tubing

MODEL	ACTUAL SIZE	MAXIMUM CUT DOWN	DOOR SIZE
A7760V3684, AF7760V3684, A7790V3696, AF7790V3696, A7750V36120, AF7750V36120	32"	6"	30" to 36" door width
A7780V4896, AF7780V4896, A7740V48120, AF7740V48120	44"	10"	38" to 48" door width

### MINIMUM STILE REQUIREMENTS

Double Door with Two Vertical Rod Type Exit Devices



# ALBR7760V & ALBRF7760V ADA Series

## GRADE 1, Vertical Rod Exit Device Less Bottom Rod



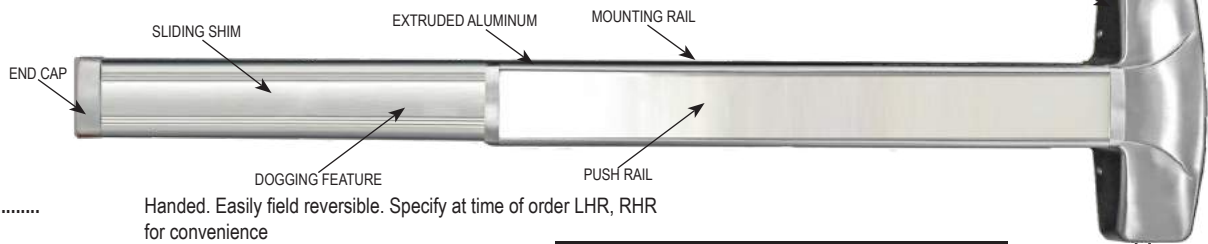
### Specifications

For Doors.....	1 3/4" thick standard optional 2 1/4" thick. 3 3/4" minimum stile width required for single door application. 3 1/2" minimum stile width required for double door application. Lever, thumb piece and escutcheon trims available. 2 3/4" backset
Top Chassis.....	Non-ferrous Alloy (Panic Grade), Steel (Fire Grade)
Cover.....	Non-ferrous plated material. Covers stock hollow metal doors with 161 cut out
Mounting.....	Furnished with wood and machine screws. <b>Thru-bolts are included and standard packaging on fire rated devices</b>
End Cap.....	Brass, Bronze or Stainless Steel construction
Alarm.....	Available. Prefix <b>"NALRM"</b> before MODEL #

Hand.....	Handed. Easily field reversible. Specify at time of order LHR, RHR for convenience
Latch Bolt & Spring.....	Stainless Steel
Spring.....	Stainless Steel throughout
ANSI Standard.....	A156.3, Grade 1
Rail Assembly.....	Heavy gauge extruded aluminum body with Stainless Steel push pad
Strike.....	See strike page
Dogging Feature.....	Allen-type key furnished standard on non-fire labeled devices
UL and ULC Listed.....	A7760V Series for panic. AF7760V Series for fire exit hardware for all types of 8' x 8' double doors for up to 3 hour fire labeled installations. Conforms to standards UL10C and UBC 7-2-1997 codes
Finish.....	Architectural plated finishes
Electronic Functions.....	(ELR) Electrical Latch Retraction and RX & LX Signal Switch available
Anti-Microbial Coating.....	Available on US32D only. Use part # <b>ANTB-EXIT</b>

**\*Americans with Disability Act (ADA) compliant  
5 lbs opening force on ADA Series only**

**\*Refer to the Price List for Stock Sizes and Finishes**



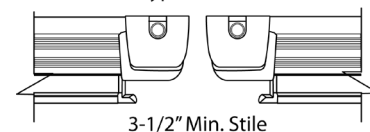
AUXILIARY FIRE LATCH ASSEMBLY INCLUDED

### DIMENSIONS

Touch bar height to finished floor	41" (1041 mm) at center
Touch bar projection	
Neutral	3 5/8" (92 mm)
Depressed	2 7/8" (73 mm)
Center case	8 1/16" x 2 3/4" x 2 1/2" (205 mm x 68 mm x 62 mm)
Panic grade top & bottom latch case	3 15/16" x 2 1/8" x 1 3/8" (100 mm x 52 mm x 42 mm)
Fire grade top latch case	3 15/16" x 2 9/16" x 2 1/16" (100 mm x 68 mm x 53 mm)
Fire grade bottom latch case	3 15/16" x 2 1/8" x 1 3/8" (100 mm x 52 mm x 42 mm)
Top rod length for 36" x 84" doors	Top rod 37 1/2" (955 mm)
Top rod length for 48" x 96" doors	Top rod 49 5/8" (1260 mm)
Vertical Rods	1/2" (13 mm) Round tubing

### MINIMUM STILE REQUIREMENTS

Double Door with Two Vertical Rod Type Exit Devices



MODEL	ACTUAL SIZE	MAXIMUM CUT DOWN	DOOR SIZE
ALBR7760V3684, ALBRF7760V3684, ALBR7790V3696, ALBRF7790V3696, ALBR7750V36120	32"	6"	30" to 36" door width
ALBR7780V4896, ALBRF7780V4896, ALBR7740V48120	44"	10"	38" to 48" door width



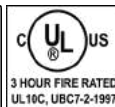
# DE7700 Series

GRADE 1 Delayed Egress All in One Exit Device

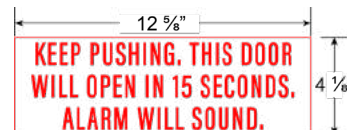
ANSI BHMA A156.24 Delayed Egress Locking System Approved



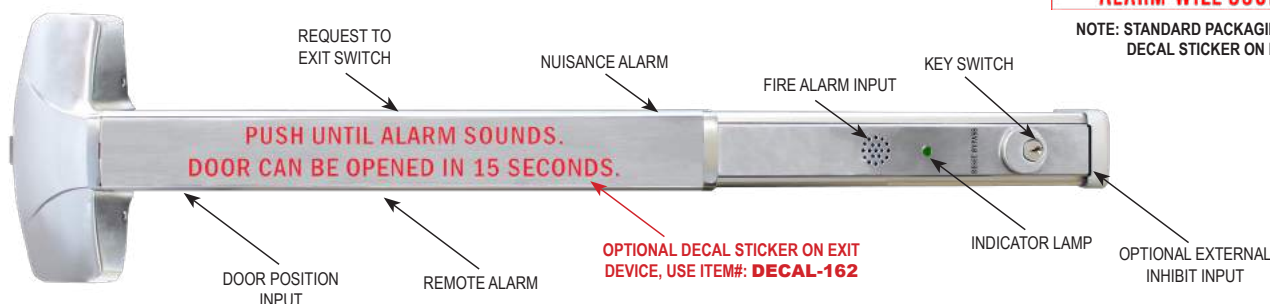
**MEETS**  
The Buy American Act



**5-YEAR**  
WARRANTY



NOTE: STANDARD PACKAGING INCLUDES DECAL STICKER ON DOOR.



FEATURES		
EGRESS DELAY	BUILT-IN ANNUNCIATION	CODE COMPLIANCE
<ul style="list-style-type: none"> <li>All in One Device</li> <li>15 or 30 second exit delay (Factory set to 15 secs)</li> <li>1 or 2 second nuisance delay</li> <li>Alarm and Lock reset</li> <li>1 to 30 second momentary bypass</li> <li>Sustained bypass</li> </ul>	<ul style="list-style-type: none"> <li>Armed mode</li> <li>Nuisance mode</li> <li>Irreversible egress mode</li> <li>Release mode</li> <li><u>Optional External Inhibit Input</u></li> <li>Remote override</li> <li>Remote reset</li> </ul>	<ul style="list-style-type: none"> <li>IFC International Fire Code</li> <li>IBC International Building Code</li> <li>NFPA 101 Life Safety Code</li> <li>NFPA 1 Uniform Fire Code</li> <li>California Building Code</li> <li>Field selectable automatic or manual power up after emergency release or power loss</li> </ul>
CONTROL INPUTS	TRIGGER MODES	MONITORING OUTPUTS
<ul style="list-style-type: none"> <li>1 to 30 second request-to-exit and bypass input with anti-tailgate and jumper selectable door prop alarm</li> <li>Reset</li> </ul>	<ul style="list-style-type: none"> <li>Egress Alarm triggered by Push Bar</li> <li>Trigger input from external device field selectable (N/O or N/C)</li> </ul>	<ul style="list-style-type: none"> <li>Armed mode</li> <li>Nuisance mode</li> <li>Release status</li> </ul>
MUST ORDER CR602RF or CR631RF POWER SUPPLY TO HONOR WARRANTY AND UL MARKING		

APPLICATION	
<p>When unauthorized egress is initiated the device delays egress through the door for 15 seconds (or 30 seconds). Meanwhile, the person exiting must wait while personnel or security responds. The door unlocks after 15 seconds have elapsed permitting egress. When powered by a fire control supervised power supply, the lock will release immediately in an emergency.</p>	<p>FOR USE WITH: (FIRE AND NON-FIRE)</p> <ul style="list-style-type: none"> <li>A7700, AF7700 Rim Exit Devices</li> <li>A7760V, AF7760V Surface Vertical Rod Exit Device<sup>1</sup></li> <li>MCVR7700, FMCVR7700 Concealed Vertical Rod (metal doors)</li> <li>WCVR7700, FWCVR7700 Concealed Vertical Rod (wood doors)</li> <li>MR7700, FMR7700 Mortise Lock Rim Exit Device</li> <li>GLS7700 Narrow Stile Rim Exit Device (on 36" Only)</li> <li>GLSCVR7700, FGLSCVR7700 Narrow Stile Concealed Vertical Rod (on 36" Only)</li> </ul> <p><sup>1</sup>Recommends use of rod and latch guards and strike monitor for surface vertical rods</p>

TECHNICAL SPECIFICATIONS	
<ul style="list-style-type: none"> <li>24V DC @ 430mA</li> <li>24V DC @ 250mA Slave</li> </ul> <p>Power Supply CR602RF 1 Amp / CR631RF 1.5 Amp</p>	<ul style="list-style-type: none"> <li>Field selectable 12 or 24V DC, regulated and filtered</li> <li>Auto resetting output circuit protection</li> <li>Isolated 13.5 / 27V DC battery charger</li> <li>Low battery disconnect</li> <li>Emergency release input</li> <li>Field selectable UBC &amp; California compliant manual power up</li> <li>Input, output and battery status LED's</li> <li>CR631RF - 16" x 14" x 6.5", CR602RF - 12" x 12" x 4" enclosure</li> <li>Choice of output and door control modules</li> <li>CR631RF - 1.5 Amp, CR602RF - 1.0 Amp</li> <li>Batteries not included</li> </ul>
<p>CR631RF</p>	<p>CR602RF</p>

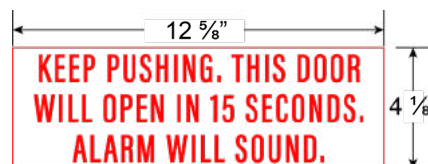
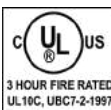
# 7700 Series Delayed Egress Models



## GRADE 1 Delayed Egress All in One Exit Device

## ANSI / BHMA A156.24 Delayed Egress Locking System Approved

For use in institutions, schools, universities, commercial buildings where heavy duty reliable operation is a requirement. 7700 Series Delayed Egress can also be used for fire exit hardware for all types of 4' x 8' single doors and 8' x 8' double doors for up to 3 hour fire labeled installations, it conforms to standards UL10C and UBC 7-2-1997 codes.



NOTE: STANDARD PACKAGING INCLUDES DECAL STICKER ON DOOR.



A7700, AF7700 Rim Panic Exit Devices



A7760V, AF7760V

Surface Vertical Rod Exit Devices

To effectively use the surface vertical rod exit device, it is recommended that the rod and latch guards and monitor strike be used.



GLS7700 Narrow Stile Rim Exit Devices (36" ONLY)

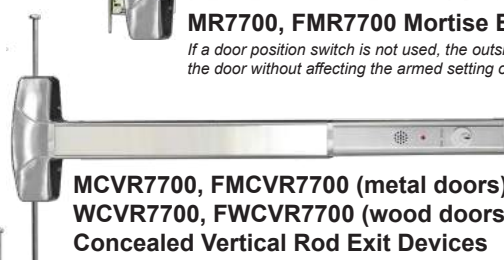


\*Optional Decal sticker for the Exit Device, specify item# "DECAL-162" when ordering.



MR7700, FMR7700 Mortise Exit Devices

If a door position switch is not used, the outside trim will operate the door without affecting the armed setting of the device.



MCVR7700, FMCVR7700 (metal doors)  
WCVR7700, FWCVR7700 (wood doors)  
Concealed Vertical Rod Exit Devices



GLSCVR7700, FGLSCVR7700 (36" ONLY)  
Narrow Stile Concealed Vertical Rod Exit Devices

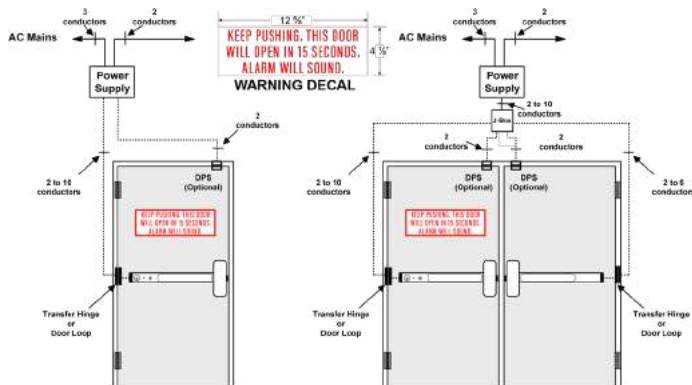
**DELAYED EGRESS OPTION IS AVAILABLE ON ALL 7700 SERIES EXIT DEVICES ( GLS7700 & GLSCVR7700 Narrow Stile Exit Devices on 36" Only. Must use DEKIT48. )**

**♦♦ NOTE: DEKIT IS INSTALLED ON THE EXIT DEVICE UPON ORDERING. ♦♦**

**Must Specify:** 7700 Series ITEM # and DEKIT36 (for 36") or DEKIT48 (for 48") separately.

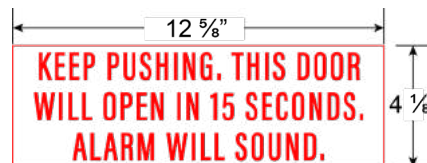
**for Example:** A7700EO36 US32D with Delayed Egress option,

**ORDER:** "A7700EO36 US32D" and "DEKIT36 US32D" as two line items.



Single Door

Pair of Doors



NOTE: STANDARD PACKAGING INCLUDES DECAL STICKER ON DOOR.

**MUST ORDER CR602RF OR CR631RF POWER SUPPLY TO HONOR WARRANTY AND UL MARKING**

# Alarm Exit Hardware



## Rim Type Exit Devices

NALRMA770036	Alarm Rim Type 36" Door (Panic Grade)
NALRMA772048	Alarm Rim Type 48" Door (Panic Grade)
FNALRMA770036	Alarm Rim Type 36" Door (Fire Grade)
FNALRMA772048	Alarm Rim Type 48" Door (Fire Grade)

## Vertical Rod Type Exit Devices

Prefix "**NALRM**" before PART #

## Features

- 1, 3, 5-minute and continuous alarm type settings available
- ON and OFF power switch
- Alarm sound frequency is 120 db
- Alarm unit has internal horn. When the push rail is depressed, the horn sounds to provide an audible means of signaling that the door has been opened and breached.
- The key switch to turn alarm off is a standard 1 1/4" cylinder with "C" keyway. The alarm operates on one standard 9-volt transistor battery. When battery is weak the horn will emit an intermittent signal.
- Alarmed units are supplied with a micro switch, which monitors the push rail and the latch bolt for foolproof security on rim devices.
- Alarm unit has a signal OC output that can be linked to external alarm control systems.
- Unit includes "EMERGENCY EXIT ONLY • ALARM WILL SOUND" decal for application on door or unit.

## Cylinder Dogging Kit

**TO ORDER:** Prefix "CD" before PART #. Available for all 7700 Series devices except fire exit hardware.

**KIT ONLY:** use PART # 36CD7700 for 36" and 48CD7700 for 48" devices. Specify finish.

**NOTE:** Use PART # 48CD9800 for 36" GLS Narrow Stile Rim and CVR Non-Fire Exit Devices.



## Finishes (Refer to Price List for Stock Finishes)

Cal-Royal	Description	BHMA	US Finish	Material
10B	Oil Rubbed Bronze	613	US10B	Bronze
32D	Satin Stainless	630	US32D	Stainless Steel

⚙️ (IC) **INTERCHANGEABLE CORE:** Interchangeable Core locks will accept compatible 6 or 7-Pin cores with BEST, FALCON and ARROW

⚙️ (ICSC) **INTERCHANGEABLE CORE:** Indicates function available with **Schlage Full Size Format** Interchangeable Core. Corbin, Sargent and Yale format also available.

# Trim Selection

## CLUTCH CYLINDRICAL LEVER



### Non-Handed Grade 1 (Clutch Style)

Cylindrical body hardened steel heavy duty tailpiece. For 1 3/4" and 2 1/4" doors.  
Prefix "THI" before Part # for 2 1/4" door thickness.

Available for fire and non-fire rated rim and vertical rod exit devices.

Rose diameter 3 1/2", lever length 4 3/4". Fits and covers 161 cutout.

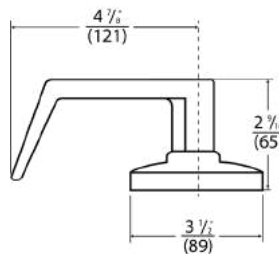
Finishes: US26D, US26, US3, US4, US10B, US10BE, US1

**\*GN DESIGN ONLY: ENT00L, ICENT00L, STR05L, ICSTR05L, PAS30L, DUM40L IN US32D FINISH, ALL STAINLESS STEEL EXTERIOR. INCLUDES GRADE 304SS LEVER AND ROSE**



**GN DESIGN**

Patented Clutch Freewheeling



#### ENT00L or

• ICENT00L or

• ICSCENT00L4

• SARICENT00L (Sargent)

• RUSICENT00L (Corbin / Russwin)

• YALICENT00L (Yale)

#### 8000K

#### STR05L or

• ICSTR05L or

• ICSCSTR05L4

• SARICSTR05L (Sargent)

• RUSICSTR05L (Corbin / Russwin)

• YALICSTR05L (Yale)

#### PAS30L

#### DUM40L

#### ENTRANCE

Key locks and unlocks lever.

Operates as CLASSROOM FUNCTION.

ANSI Function (08)

Ball Knob Keylock

#### STOREROOM

Key operates lever, otherwise always locked.

ANSI Function (09)

#### PASSAGE

Trim always operable and free.

ANSI Function (14)

#### DUMMY

Dummy trim. One sided

ANSI Function (02)

### Other Lever Trim Designs

• Available in SFIC & LFIC



**AT**

• Available in SFIC & LFIC



**SPA**

• Available in SFIC



**TUB**

• Available in SFIC & LFIC  
\*except YALE LFIC



**AUG**

• Available in SFIC & LFIC  
\*except YALE LFIC



**DAN**

• Available in SFIC & LFIC  
\*except YALE LFIC



**LON**

• Available in SFIC & LFIC  
\*except YALE LFIC



**TAC**



**8000K**

Anti-Microbial Coating available in US26D or US32D Only. Use part # "ANTB-TRIM" when ordering.

**KEYWAY:** 6-Pin solid brass "C" keyway standard. Optional: Schlage E, Schlage C-K, Russwin D1-2-3-4, Corbin 59/60, Sargent LA-LB-LC, Falcon/Weiser E, Arrow A, Yale 8, Yale GA and Kwikset. Can also accept Medeco, Assa, Kaba and **Cal-Royal HSK** High Security Cylinders.

• (IC) **INTERCHANGEABLE CORE:** Interchangeable Core locks will accept compatible 6 or 7-Pin cores with **BEST, FALCON and ARROW.**

• (ICSC) **INTERCHANGEABLE CORE:** Indicates function available with **SCHLAGE, CORBIN/RUSSWIN, SARGENT and YALE Full Size Format Interchangeable Core**

KEYWAY	+	DESIGN	+	FUNCTION	+	FINISH
BEST, FALCON, & ARROW - SCHLAGE - CORBIN/RUSSWIN - SARGENT - YALE -		IC ICSC RUSIC SARIC YALIC		AT SPA TUB* AUG DAN LON TAC		ENT00L STR05L PAS30L DUM40L

#### HOW TO ORDER IN LFIC

Example: ICSCENT00L4 US26D  
in "SPA" design is  
ICSCSPAENT00L4 US26D

\*\*Note: Yale LFIC is only available in GN, AT, SPA lever designs | TUB\* is only available in SFIC.



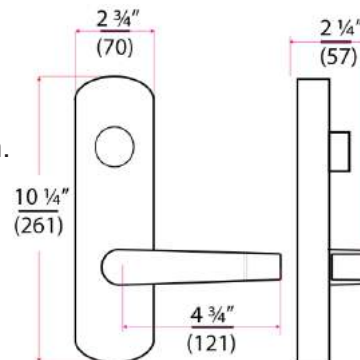
# Trim Selection

## RIGID LEVER ESCUTCHEON



### CONSTRUCTION

- Rigid, non-clutch mechanism
- Double heavy duty spring support to prevent sagging and enhance operation
- Grade 1, thru-bolted design. Non-handed design. Easily field reversible
- Hardened steel heavy duty tailpiece. Available for fire and non-fire rated rim and vertical rod exit devices
- Standard 6-Pin Schlage "C" Mortise Cylinder included



Anti-Microbial Coating available in US26D or US32D Only. Use part # **"ANTB-TRIM"** when ordering.

### DOOR THICKNESS

Standard 1 3/4". For 2 1/4" thick door use additional Part # TAIL3

### ESCUTCHEON DIMENSIONS

2 3/4" width X 10 1/4" length. Lever length: 4 3/4".

Fits and covers 2 1/8" 161 cutout

**ESC7700 or  
ICESC7700 or  
ICSCESC7700**

### ENTRANCE

Rigid Entrance, key locks or unlocks escutcheon trim  
ANSI Function (08) Operates as classroom function

**ESC7705 or  
ICESC7705 or  
ICSCESC7705**

### STOREROOM

Rigid Storeroom, key unlocks lever, lever retracts  
latch bolt, otherwise always locked  
ANSI Function (09)

**ESC7730**

### PASSAGE

Trim always operable and free  
ANSI Function (14)

**ESC7740**

### DUMMY

Dummy Escutcheon trim ANSI Function (02)

**TO ORDER** other lever design insert **"AT"**, **"RL"**, **"TUB"**, **"LON"**, or **"TAC"** before **"ESC"**:  
e.g. **ATESC7700** for ESC7700 with AT design.

**KEYWAY:** 6-Pin solid brass "C" keyway Mortise Cylinder standard. Optional: Schlage E, Schlage C-K, Russwin D1-2-3-4, Corbin 59/60, Sargent LA-LB-LC, Falcon/Weiser E, Arrow A, Yale 8, Yale GA and Kwikset. Can also accept Medeco, Assa, Kaba and **Cal-Royal HSK** High Security Cylinders.

**FOR ELECTRIFIED TRIM OPTIONS SEE PAGE 12**

⚙️ **(IC) INTERCHANGEABLE CORE:** Interchangeable Core locks will accept compatible 6 or 7-Pin cores with BEST, FALCON and ARROW

⚙️ **(ICSC) INTERCHANGEABLE CORE:** Indicates function available with **Schlage Full Size Format** Interchangeable Core. Corbin, Sargent and Yale format also available.

### Lever Trim Designs



**ESC**



**ATESC**



**RLESC**



**TUBESC**



**LONESC**



**TACESC**

# Trim Selection



## HEAVY DUTY STAINLESS STEEL CLUTCH LEVER ESCUTCHEON (High Frequency Abusive Situation such as Schools, Hospitals, Industrial / Institutional)

### CONSTRUCTION

- Clutch mechanism
- Double heavy duty spring support to prevent sagging and enhance operation
- Grade 1, thru-bolted design. Non-handed design. Easily field reversible
- All Stainless Steel heavy duty tailpiece.
- Available for fire and non-fire rated rim and vertical rod exit devices
- Standard 6-Pin Schlage "C" Mortise Cylinder included

### DOOR THICKNESS

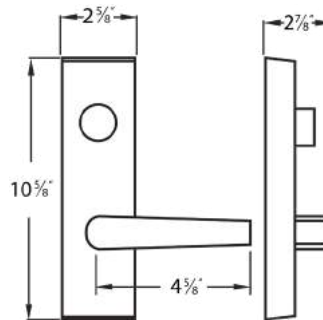
Standard 1 3/4" to 2".

For 2" or 2 1/2" thick door use additional Part # TAIL9

### ESCUTCHEON DIMENSIONS

2 5/8" width X 10 5/8" length. Lever length: 4 5/8".

Fits and covers 2 1/8" 161 cutout



#### HDESC-00 or

ICHDESC-00

ICSCHDESC-00

#### HDTSESC-00

ICHDTSESC-00

ICSCHDTSESC-00

#### ENTRANCE

Clutch Entrance, key locks or  
unlocks escutcheon trim.

ANSI Function (08)

Operates as classroom function

#### HDESC-05 or

ICHDESC-05

ICSCHDESC-05

#### HDTSESC-05

ICHDTSESC-05

ICSCHDTSESC-05

#### STOREROOM

Clutch Storeroom, key unlocks lever,  
lever retracts latch bolt, otherwise  
always locked. ANSI Function (09)

#### HDESC-30

HDTSESC-30

#### HDESC-40

HDTSESC-40

#### PASSAGE

Trim always operable and free  
ANSI Function (14)

#### DUMMY

Dummy Escutcheon trim  
ANSI Function (02)

**FOR ELECTRIFIED TRIM  
OPTIONS, SEE PAGE 12**

**TO ORDER RL lever design, add "RL" after "HD" when ordering.**  
e.g. HDRLESC-00 for HDESC-00 with RL design.

**KEYWAY:** 6-Pin solid brass "C" keyway Mortise Cylinder standard. Optional: Schlage E, Schlage C-K, Russwin D1-2-3-4, Corbin 59/60, Sargent LA-LB-LC, Falcon/Weiser E, Arrow A, Yale 8, Yale GA and Kwikset. Can also accept Medeco, Assa, Kaba and **Cal-Royal HSK** High Security Cylinders.

**(IC) INTERCHANGEABLE CORE:** Interchangeable Core locks will accept compatible 6 or 7-Pin cores with BEST, FALCON and ARROW

**(ICSC) INTERCHANGEABLE CORE:** Indicates function available with **Schlage Full Size Format** Interchangeable Core. Corbin, Sargent and Yale format also available.

### Lever Trim Designs



**HDESC**



**HDTSESC**



**HDRLESC**

Anti-Microbial Coating  
available in US32D Only.  
Use part # **"ANTB-TRIM"**  
when ordering.

# Trim Selection



## PULL DESIGN

**7700 NL**  
**IC7700NL**  
**ICSC7700NL**

### FOR RIM DEVICES ONLY

Outside by pull and key.  
 Key retracts latch bolt.  
 ANSI function (03)  
 Covers 161 cutout

### KEYWAY

Standard 6-Pin solid brass "C"  
 keyway Rim Cylinder included.

### FINISHES

Architectural plated finishes.



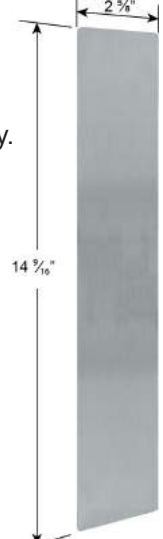
**7700 DTP**

Outside by pull only.  
 Pull when dogged.  
 ANSI function (02)  
 Covers 161 cutout.



**7700 EOP**

Outside by plate only.  
 ANSI function (01)  
 Covers 161 cutout



**77TP00 or**  
**IC77TP00**  
**ICSC77TP00**

### ENTRANCE

Key locks or unlocks thumbpiece.  
 (Operates as classroom function)  
 ANSI Function (05)

**77TP05 or**  
**IC77TP05**  
**ICSC77TP05**

### STOREROOM

Key unlocks thumbpiece, thumbpiece retracts  
 latch bolt, otherwise always locked.  
 ANSI Function (06)

**77TP30**

### PASSAGE

Trim always operable and free.  
 ANSI Function (15)

**77TP40**

### DUMMY

Dummy trim. **Includes blank Mortise  
 dummy cylinder.** One sided.  
 ANSI Function (02)

### KEYED



### DUMMY



**KEYWAY:** 6-Pin solid brass "C" keyway Mortise Cylinder standard. Optional: Schlage E, Schlage C-K, Russwin D1-2-3-4, Corbin 59/60, Sargent LA-LB-LC, Falcon/Weiser E, Arrow A, Yale 8, Yale GA and Kwikset. Can also accept Medeco, Assa, Kaba and **Cal-Royal HSK** High Security Cylinders.

### ⚙️ (IC) INTERCHANGEABLE CORE

Interchangeable Core locks will accept compatible 6 or 7-Pin cores with BEST, FALCON and ARROW.

### ⚙️ (ICSC) INTERCHANGEABLE CORE:

Indicates function available with **Schlage Full Size Format** Interchangeable Core. Corbin, Sargent and Yale format also available.

### FINISHES

Architectural plated finishes.

# Electrified Lever Trim



Cal-Royal's electrified lever trim provides remote locking and unlocking capabilities using industry safety standards. The solenoid can be energized from a distant controller, thus allowing access control of the opening.

The control of stairwells in high-rise buildings is a common application for this trim, where electric pullback of the exit device's latch bolt is cost prohibitive or not required. This is especially practical in applications where fire/life safety codes require a "fail-safe" condition which is not an option with electrified latch pullback devices. Because the current draw is quite low there is no need for a more expensive power supply to provide the surge current.

## Features

- Continuous duty solenoids used to insure trouble-free operation
- Internally mounted solenoid to ease installation (no special door prep required)
- No hassle 3-year warranty

## Options

- Available Fail Safe (Electrically Locked) or Fail Secure (Electrically Unlocked)
- Voltage options – 12V or 24V (AC / DC)
- Request to Enter Switch (REE) available
- CRU2 – Current Reduction Unit to improve solenoid life in "continuously on" applications

## Specifications

Solenoid..... Continuous Duty

Operating Voltage.... 12 or 24V AC / DC  $\pm$  10%  
(must specify 12 or 24 volts when ordering)

Amperage.....250mA @ 12V or 150mA @ 24V

Coil Resistance.....12V = 49 $\Omega$  or 24V = 159 $\Omega$

## To order, Specify:

OPTIONS: FAIL SAFE (FS)

FAIL SECURE (FSE)

ITEM#	DESCRIPTION
FS12	FS12 FAIL-SAFE OPTION 12V AC/DC
FS24	FS24 FAIL-SAFE OPTION 24V AC/DC
FSE12	FSE12 FAIL-SECURE OPTION 12V AC/DC
FSE24	FSE24 FAIL-SECURE OPTION 24V AC/DC

**TO ORDER** other design, ADD: "ESC77", "ATESC77", "RLESC77", "TUBESC77", "LONESC77", or "TACESC77" after the Electrification.  
e.g. FSE24**ATESC77** for ESC77 in AT design

**TO ORDER** heavy duty design add **HD**, **TS**, or **RL** to Item #  
e.g. FS12**HD** or FS12**TS** or FS12**RL**

## Lever Trim Designs



**ESC**



**ATESC**



**RLESC**



**TUBESC**



**LONESC**



**TACESC**



**HDESC**



**HDTSESC**



**HDRLESC**

Anti-Microbial Coating available in US26D or US32D Only.  
Use part # **"ANTB-TRIM"** when ordering.



# (ELR) Electric Latch Retraction



Our motor driven electrified latch pullback exit device allows for remote keyless access control in high occupancy / high traffic conditions where exit devices are required. Common applications include conditions such as hospitals, airports, schools, churches and they are commonly specified in applications that require automatic door openers. The device may be continuously energized allowing for a push / pull condition if desired.

## Features:

- Available on 7700 Series, including rim, vertical rod, concealed vertical rod, mortise exit device, fire and non fire-rated devices
- MM4S Smart Module: On board diagnostics with audible feedback for adjustment and power issues
- “PTS” (Push to Set Technology): 5 second electronic adjustment for easy post installation adjustment
- Electric dogging rated for continuous duty - Auto retraction if dogged push pad is pulled from position
- Low Current Draw - Field switchable to “High Torque” mode
- Up to 300’ wire run with (2) 18ga wire - Long wire runs provides installer with convenience of placing the locking device power supply in a centralized location; i.e. the same closet as the access panel
- 8’ cable with Quick Connect for MM4S module to easily connect to power supply lead
- 3-year “No Hassle” warranty

## Specifications:

- Voltage – 22 to 28V DC
- System protection – unit shutdown when voltage exceeds 28V DC
- Average In-rush Current – 900mA; Average Hold Current - 215mA
- PTS adjustment – approx. 1/4”
- Wire run: 300’ with 18ga wire



**INSTALLED ON THE EXIT  
DEVICE: USE FLR7700 ADD**

**FOR FIELD INSTALLATION  
USE FLR7700 KIT**

## To Order:

- **Must Specify: Exit Device item #** and **FLR7700 ADD** as two separate line items.  
For Example: A7700EO36 US32D with ELR option, order “**A7700EO36 US32D**”, and “**FLR7700 ADD**” as two line items.
- **\*Use FLR7700 KIT if ordered separately.**
- **Optional Switch** (RX or LX) is also available and should be added as a **3<sup>rd</sup> line item** as needed.

**Note:** When using electrified hinge, you must use prefix ELELRn + hinge item code, where “n” is equal to number of wires. For example: ELELR4 + BB31.

**MUST USE CRP POWER SUPPLIES TO  
HONOR WARRANTY (see pages 97-98)**

## Signal Switch RX and LX

**RX** (request to exit) signal switch is used to signal the use of an opening from the push side. When the push pad is depressed, the switch is activated. These devices are equipped with an internal SPDT (single pole double throw) switch that monitors the touch bar.

**LX** (latch bolt monitoring) signal switch monitors both egress and access of an opening. When the latch bolt is retracted, the switch is activated. These devices are equipped with an internal SPDT (single pole double throw) switch that monitors the latch bolt position.

**LX** and **RX** switches can be combined.

**LX, RX** switches can be used in combination with ELR (electric latch retraction) option.

## Specifications

**RX** or **LX**.....Switch rated 0.5 amps @ 24V AC / DC resistive  
Low current **RX** or **LX**.Switch rated 0.5 amps @ 24V AC / DC resistive

## for Factory Installed. To Order, Specify:

**RX7700**.....Request to Exit switch for field installation  
**LX7700**.....Latch bolt Monitoring switch for field installation  
**LXRX7700**.....Latch bolt Monitoring / Request to Exit Combination

# Heavy Duty Digital Exit Trims



## MECHANICAL CRCODE101

### Features

- Heavy Duty
- Designed for 6600, 7700 and 9800 Series
- Grade 1 Rim and Surface Vertical Rod Exit Devices
- Single Code (up to 8000 code combinations)
- Weather-Resistant finish
- Code can be changed anytime without dismounting
- Full size, Non-Handed lever handle
- Easy Installation
- Reversible Handing

## ELECTRONIC CRCODE007

### Features

- Dual mode for code free entry either mechanically by key or electronically thru the keypad
- Designed for 6600, 7700 and 9800 Series Rim Exit Devices
- Can store up to 90 different numeric user codes in 4, 5 or 6 digits
- Settings remain in memory when batteries are removed
- Audible alarm sounds after 3 incorrect attempts
- Connections available for remote release switch and automatic lock activation when linked to Fire alarm system
- Can be used as STOREROOM or CLASSROOM function
- Factory default set as STOREROOM function
- Fast and easy programming via master code

## CR5000 TRILOGY® KEYLESS EXIT TRIM

### Features

- Clutch mechanism insures long life and durability
- Fingertip and / or Windows programmable
- 2000 User Codes: Master, manager, supervisor and users
- Real Time Clock for up to 40,000 Event Time / Date-Stamped Audit Trail
- Up to 500 Lock / Unlock Schedules (with Time Zone Support)
- Rugged 12-Button Metal Keypad
- Non-Handed; Fully Field Reversible
- Adaptable to most major manufacturers of standard RIM and IC RIM Cylinders
- Battery operated; uses 5 AA batteries
- Optional Interchangeable Core available with Best, Falcon & Arrow

## MECHANICAL CRCODE204

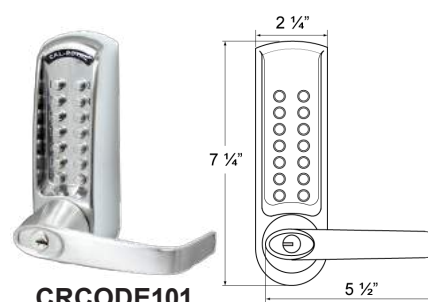
### Features

- Breakaway Lever Design
- Easy On-Door Code Change
- Weather Resistant
- Code-Free Option (Passage)
- Non-Handed
- 1 - 12 digit Length Code
- Thousands of Possible Code Combinations
- Single Code User
- Applications: Offices, Schools, Hospitals, Apartments, Hotels / Motels, Residential, Commerical and Public Buildings
- Door Thickness: 1 3/4" - 2"

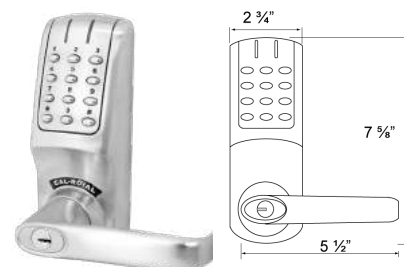
## KABA® - Cal-Royal Combination

Cal-Royal's Exit hardware devices combined with Kaba InSync CP provide a variety of alternatives when addressing community access control. Recommended for applications such as controlling building entry openings, common area rooms and doors with exit devices. InSync CP are available as stand-alone battery operated door locks designed to work in conjunction with Cal-Royal's Exit Hardware Devices.

**KABA InSync CP is not sold through CAL-ROYAL.** For inquiries and information on InSync line of products please visit [www.kabamultihousing.com](http://www.kabamultihousing.com)



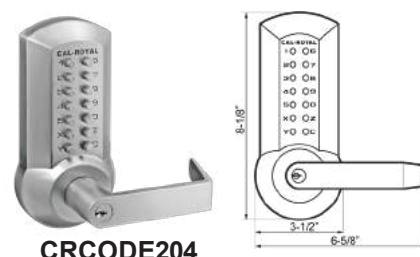
CRCODE101



CRCODE007



CR5000



CRCODE204



# MCVR7700 & FMCVR7700 Series

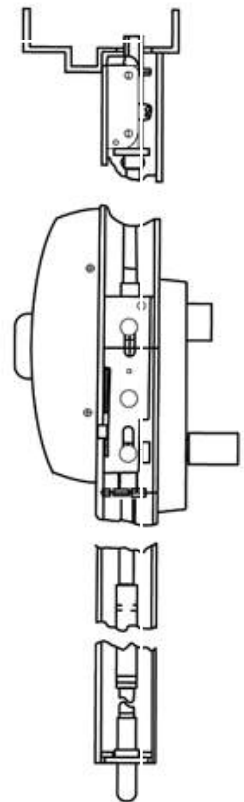
Optional Less Bottom Rod (LBR)

Grade 1 Concealed Vertical Rod Exit Device for Metal Doors



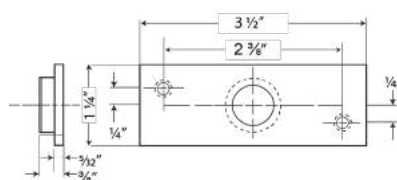
## Specifications

LBR (Optional).....	No bottom strike. Free access for wheel chairs, stretchers and carts which eliminates tripping potential and disfiguration of floors due to dragging of bottom bolts.
For Doors.....	Metal. 1 3/4" (44.5 mm) minimum thickness 4 1/2" (114 mm) minimum stile width
Top Chassis.....	Non-ferrous Alloy (Panic Grade), Steel (Fire Grade)
Chassis Cover.....	Non-ferrous plated material
Mounting.....	Furnished standard with machine screws
End Cap.....	Brass, Bronze or Stainless Steel construction
Hand.....	Handed. Easily field reversible. Specify at time of order LHR, RHR for convenience
ANSI Standard.....	A156.3, Grade 1
Strikes.....	260 top and 265 bottom
Top and Bottom Bolts.....	Stainless Steel . Top and bottom bolt travel 7/16" (11 mm) Projection adjustable up to 1" (25 mm)
Fire Exit Hardware.....	FMCVR7700 Series for fire exit hardware for all types of 8' x 10' double doors, LBR Series for fire exit hardware for all types of 8' x 8' double doors for up to 3 hour fire labeled installations. Conforms to standards UL10C and UBC 7-2-1997 codes
Rail Height.....	Specify door opening and mounting height of center line of rail when ordering a Vertical Rod Exit Device 41" from floor
Trim.....	See Trim Designs section
Electronic Functions.....	(ELR) Electrical Latch Retraction and RX & LX Signal Switch available
Alarm.....	Prefix "NALRM" before PART #
Dogging Feature.....	Cylinder dogging available for non-rated applications
Anti-Microbial Coating.....	Available on US32D only. Use part # ANT-B-EXIT



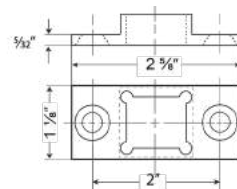
MODEL SIZE	ACTUAL LENGTH	MAX CUT DOWN	DOOR SIZE
M77CVR3684, FM77CVR3684, M77CVR3696, FM77CVR3696, M77CVR36120, FM77CVR36120	32"	6"	30" to 36" door width
M77CVR4896, FM77CVR4896, M77CVR48120, FM77CVR48120	44"	10"	38" to 48" door width

**\*LBR Fire Rated is only available up to 36" x 96" Doors.**



**260 TOP STRIKE**

- For applications metal frames
- Stainless Steel



**265 BOTTOM STRIKE**

- Furnished with expansion shields
- Mortised into floor
- Stainless Steel

# WCVR7700 & FWCVR7700 Series

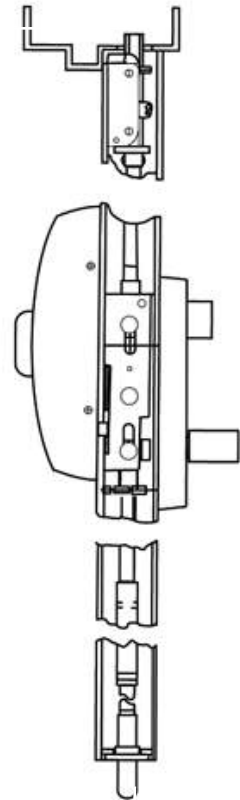
Optional Less Bottom Rod (LBR)

GRADE 1 Concealed Vertical Rod Exit Device for Wood Doors



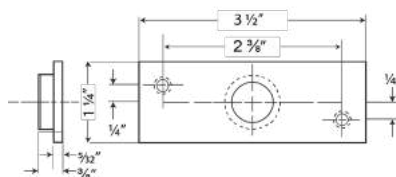
## Specifications

LBR (Optional).....	No Bottom Strike. Free access for wheel chairs, stretchers and carts which eliminates tripping potential and disfiguration of floors due to dragging of bottom bolts.
For Doors.....	Wood. 1 3/4" (44.5 mm) minimum thickness 4 1/2" (114 mm) minimum stile width
Top Chassis.....	Non-ferrous Alloy (Panic Grade), Steel (Fire Grade)
Chassis Cover.....	Non-ferrous plated material
Mounting.....	Furnished standard with machine screws
End Cap.....	Brass, Bronze or Stainless Steel construction
Hand.....	Handed. Easily field reversible. Specify at time of order LHR, RHR for convenience
ANSI Standard.....	A156.3, Grade 1
Strikes.....	260 top and 265 bottom
Top and Bottom Bolts.....	Stainless Steel . Top and bottom bolt travel 7/16" (11 mm) Projection adjustable up to 1" (25 mm)
Fire Exit Hardware.....	FWCVR7700 Series for fire exit hardware for all types of 8' x 10' double doors, LBR Series for fire exit hardware for all types of 8' x 8' double doors for up to 3 hour fire labeled installations. Conforms to standards UL10C and UBC 7-2-1997 codes
Rail Height.....	Specify door opening and mounting height of center line of rail when ordering a Vertical Rod Exit Device 41" from floor
Trim.....	See Trim Designs section
Electronic Functions.....	(ELR) Electrical Latch Retraction and RX & LX Signal Switch available
Alarm.....	Prefix "NALRM" before PART #
Dogging Feature.....	Cylinder dogging available for non-rated applications
Anti-Microbial Coating.....	Available on US32D only. Use part # ANTB-EXIT



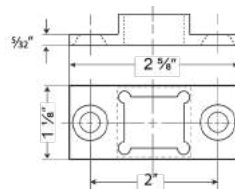
MODEL SIZE	ACTUAL LENGTH	MAX CUT DOWN	DOOR SIZE
W77CVR3684, FW77CVR3684, W77CVR3696, FW77CVR3696, W77CVR36120, FW77CVR36120	32"	6"	30" to 36" door width
W77CVR4896, FW77CVR4896, W77CVR48120, FW77CVR48120	44"	10"	38" to 48" door width

**\*LBR Fire Rated is only available up to 36" x 96" Doors.**



**260 TOP STRIKE**

- For applications metal frames
- Stainless Steel



**265 BOTTOM STRIKE**

- Furnished with expansion shields
- Mortised into floor
- Stainless Steel



# MCVR7700, FMCVR7700, WCVR7700 & FWCVR7700

## Concealed Vertical Rod Exit Devices For Wood and Metal Doors



## Trim Selection

### ESCUTCHEON LEVER DESIGN

#### CONSTRUCTION

- Free-wheeling clutch mechanism
- Grade 1, thru-bolted design
- Non-handed design. Easily field reversible.

#### FINISHES

Architectural plated finishes

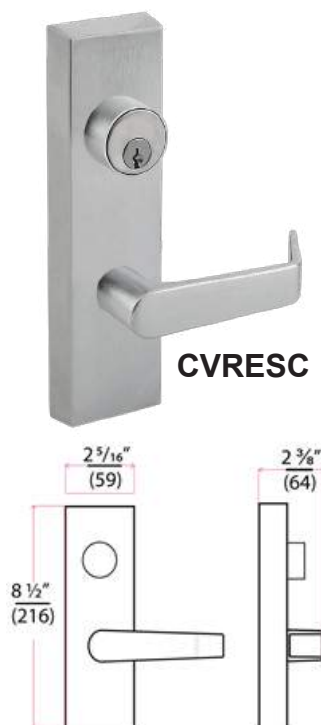
#### DOOR THICKNESS

Standard 1 3/4"

#### ESCUTCHEON DIMENSIONS

2 5/16" width X 8 1/2" length. Lever length: 4 3/4".

Fits and covers 2 1/8" 161 cutout



**CVRESC00 or**  
**⌘ ICCVRESC00 or**  
**⌘ ICSCCVRESC00**

#### ENTRANCE

Clutch Entrance, key locks or unlocks escutcheon trim  
 ANSI FUNCTION (08) Operates as classroom function

**CVRESC05 or**  
**⌘ ICCVRESC05 or**  
**⌘ ICSCCVRESC05**

#### STOREROOM

Clutch Storeroom, key unlocks lever, lever retracts  
 latch bolt, otherwise always locked, ANSI FUNCTION (09)

**CVRESC30**

#### PASSAGE

Trim always operable and free, ANSI FUNCTION (14)

**CVRESC40**

#### DUMMY

Dummy Escutcheon trim, ANSI FUNCTION (02)

**KEYWAY:** 6-Pin solid brass "C" keyway Mortise Cylinder standard.

Optional: Schlage E, Schlage C-K, Russwin D1-2-3-4, Corbin 59/60, Sargent LA-LB-LC, Falcon/Weiser E, Arrow A, Yale 8, Yale GA and Kwikset. Can also accept Medeco, Assa, Kaba and **Cal-Royal HSK** High Security Cylinders.

⌘ **(IC) INTERCHANGEABLE CORE:** Interchangeable Core locks will accept compatible 6 or 7-Pin cores with BEST, FALCON and ARROW

⌘ **(ICSC) INTERCHANGEABLE CORE:** Indicates function available with **Schlage Full Size Format** Interchangeable Core. Corbin, Sargent and Yale format also available.

### Lever Trim Designs



**RLCVRESC**



**ATCVRESC**



**TUBCVRESC**

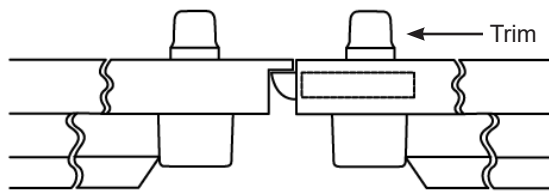
Anti-Microbial Coating  
 available in US26D Only.  
 Use part # "**ANTB-TRIM**"  
 when ordering.

**FOR ELECTRIFICATION OPTION:  
 SPECIFY ITEM# UPON ORDERING  
 FOR ENTRANCE, STOREROOM, AND  
 PASSAGE ESCUTCHEON LEVER TRIMS**

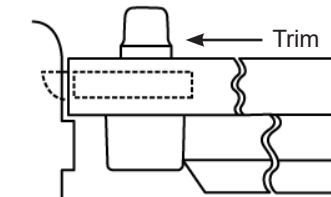
ITEM#	DESCRIPTION
FS12CVR	FAIL-SAFE (FS) OPTION 12V AC / DC
FS24CVR	FAIL-SAFE (FS) OPTION 24V AC / DC
FSE12CVR	FAIL-SECURE (FSE) OPTION 12V AC / DC
FSE24CVR	FAIL-SECURE (FSE) OPTION 24V AC / DC

# MR7700 & FMR7700 Series

## GRADE 1 Mortise Lock Exit Device



Pair of Doors

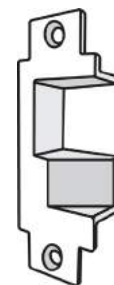


Single Doors

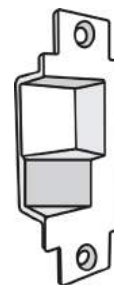
### Specifications

For Doors.....	Wood / Metal 1 3/4" (44.5 mm) minimum thickness 4 1/2" (114 mm) minimum stile width
Chassis.....	Non-ferrous Alloy
Chassis Cover.....	Non-ferrous plated material
Mounting.....	Furnished standard with wood and machine screws
End Cap.....	Brass, Bronze or Stainless Steel construction
Handing.....	Handed. Non-Reversible. Specify RHR or LHR for convenience
ANSI Standard.....	A156.3, Grade 1
Strikes.....	Standard ANSI strike
Fire Exit Hardware.....	FMR7700 Series for fire exit hardware for all types of 8' x 8' double doors for up to 3 hour fire labeled installations. Conforms to standards UL10C and UBC 7-2-1997 codes.
Mortise Lock.....	Grade (1) for 1 3/4" (44.5mm) thick doors. Handed (Non-Reversible). Specify RHR or LHR. Fits door prepared for ANSI Standard A115.1
Trim.....	See Trim Designs section
Electronic Functions.....	(ELR) Electrical Latch Retraction and RX & LX Signal Switch available
Alarm.....	Prefix "NALRM" before PART #
Dogging Feature.....	Cylinder dogging available for non-fire rated applications
Anti-Microbial Coating.....	Available on US32D only. Use part # ANTB-EXIT

### OPTIONAL OPEN BACK STRIKE



OBSTRKLH



OBSTRKRH

MODEL SIZE	ACTUAL LENGTH	MAX CUT DOWN	DOOR SIZE
MR7700EO36, FMR7700EO36 MR7705EO36, FMR7705EO36	32"	6"	30" to 36" door width
MR7700EO48, FMR7700EO48 MR7705EO48, FMR7705EO48	44"	12"	36" to 48" door width

# MR7700 & FMR7700 Series

GRADE 1 Mortise Lock Exit Device



## Trim Selection

### ESCUTCHEON LEVER DESIGN

#### FINISHES

Architectural plated finishes

#### DOOR THICKNESS

Standard 1  $\frac{3}{4}$ "

#### HANDING

Non-Handed Trim

#### ESCUTCHEON DIMENSIONS

2" width X 8  $\frac{1}{2}$ " length.

Lever length: 4  $\frac{3}{4}$ ".



**IMPORTANT: MR7700 and FMR7700 Mortise Lock case comes standard with exit device. (TRIMS SOLD SEPARATELY)**

**MRESC-00 or  
MRESC00TS or  
⌘ ICMRESC-00 or  
⌘ ICSCMRESC-00  
⌘ ICMRESC-00TS**

#### ENTRANCE

Key locks or unlocks lever  
Operates as classroom function  
ANSI FUNCTION (08)

**MRESC-05 or  
MRESC05TS or  
⌘ ICMRESC-05 or  
⌘ ICSCMRESC-05 or  
⌘ ICMRESC-05TS**

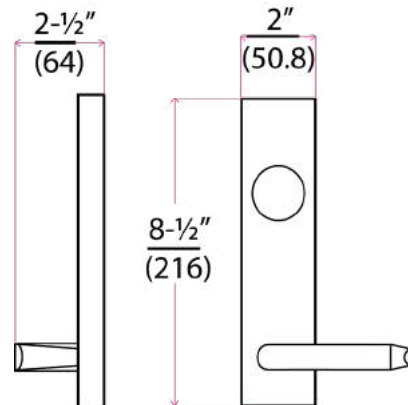
#### STOREROOM

Key retracts latch bolt, otherwise  
always locked  
ANSI FUNCTION (09)  
\*MUST USE MR7705EO36/48  
Mortise Rim Exit

**MRESC-30  
MRESC30TS**

#### PASSAGE

Trim always operable and free  
ANSI FUNCTION (14)  
\*MUST USE MR7705EO36/48  
Mortise Rim Exit



Anti-Microbial Coating available in US26D Only.  
Use part # "ANTB-TRIM" when ordering.

**KEYWAY:** 6-Pin solid brass "C" keyway Mortise Cylinder standard. Optional: Schlage E, Schlage C-K, Russwin D1-2-3-4, Corbin 59/60, Sargent LA-LB-LC, Falcon/Weiser E, Arrow A, Yale 8, Yale GA and Kwikset. Can also accept Medeco, Assa, Kaba and **Cal-Royal HSK** High Security Cylinders.

**⌘(IC) INTERCHANGEABLE CORE:** Interchangeable Core locks will accept compatible 6 or 7-Pin cores with BEST, FALCON and ARROW

**⌘(ICSC) INTERCHANGEABLE CORE:** Indicates function available with **Schlage Full Size Format** Interchangeable Core. Corbin, Sargent and Yale format also available.

**MORTISE LOCK CASE ELECTRIFICATION OPTION:  
SPECIFY ITEM# UPON ORDERING**

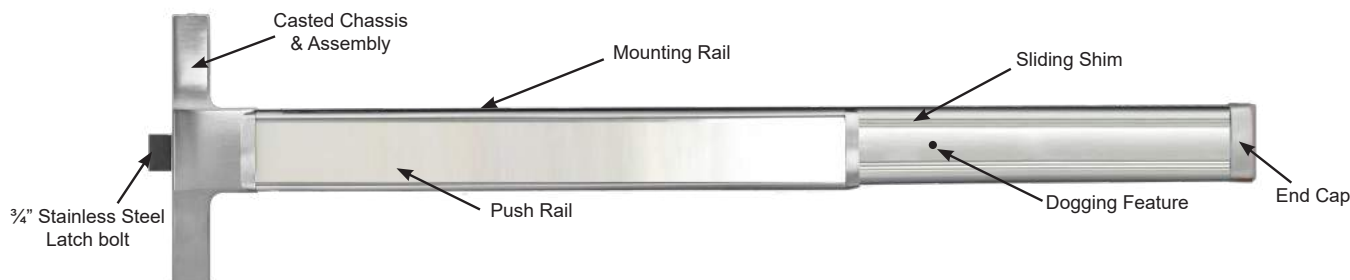
(MORTISE LOCK CASE COMES STANDARD WITH EXIT DEVICE)

ITEM#	DESCRIPTION
FS12MR	FAIL-SAFE (FS) OPTION 12V AC / DC
FS24MR	FAIL-SAFE (FS) OPTION 24V AC / DC
FSE12MR	FAIL-SECURE (FSE) OPTION 12V AC / DC
FSE24MR	FAIL-SECURE (FSE) OPTION 24V AC / DC

\*Must be used with MRESC00 Trim.

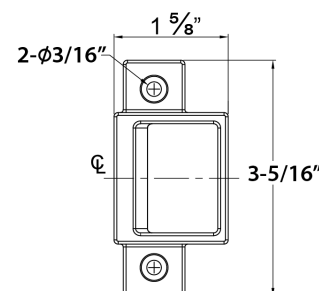
# GLS7700 & FGLS7700 Series

## GRADE 1 Rim Type Narrow Stile Exit Device

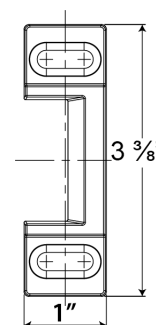


### Specifications

<b>For Doors.....</b>	Wood, Metal or Aluminum Glass doors with 1 3/4" minimum stile width, 1 3/4" thickness for single or double door application
<b>Chassis.....</b>	Non-ferrous Alloy (Panic Grade)
<b>Cover.....</b>	Non-ferrous plated material.
<b>Mounting.....</b>	Furnished with wood and machine screws. Thru-bolts available upon request.
<b>End Cap.....</b>	Brass, Bronze or Stainless Steel construction
<b>Alarm.....</b>	Available for 36" bar only. Prefix "NALRM" before PART #
<b>Hand.....</b>	Non-handed
<b>Latch Bolt.....</b>	Stainless Steel 3/4" throw
<b>Spring.....</b>	Stainless Steel throughout
<b>ANSI Standard.....</b>	A156.3, Grade 1
<b>Rail Assembly.....</b>	Heavy gauge extruded aluminum body with Stainless Steel push pad
<b>Strike.....</b>	246 packed standard. Optional 247 strike. (See strike page)
<b>Dogging Feature.....</b>	Available for 36" bar only. Allen-type key furnished standard.
<b>Mullion.....</b>	Available
<b>UL and ULC Listed.....</b>	GLS7700 Series for Panic & Safety for all types of 4' x 8' single doors and 8' x 8' double doors. FGLS7700 Series for all types of 4' x 8' single doors for up to 3 hour fire labeled installations. Conforms to UL10C and UBC7-2-1997 codes.
<b>Finish.....</b>	Architectural plated finishes
<b>Electronic Functions.....</b>	(ELR) Electrical Latch Retraction and RX & LX Signal Switch available
<b>Anti-Microbial Coating.....</b>	Available on US32D only. Use part # ANTB-EXIT



**246 STRIKE**



**247 STRIKE (OPTIONAL)**

### DIMENSIONS

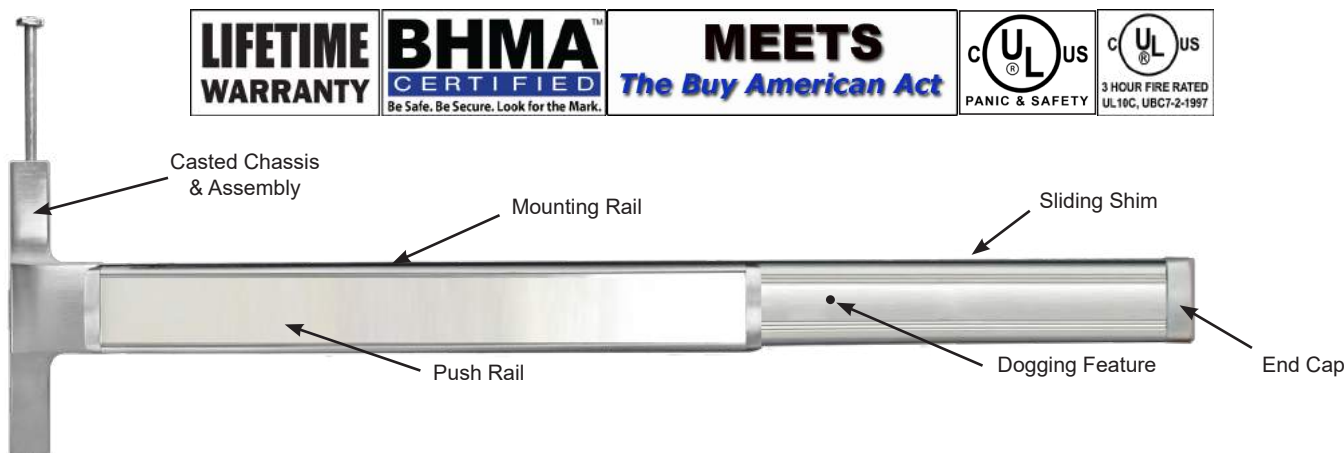
<b>Push Rail height to finished floor</b>	41" (1041 mm) at center		
<b>Push Rail projection</b>			
Neutral	3 5/8" (92 mm)		
Depressed	2 7/8" (73 mm)		
<b>Center case</b>	8 1/16" x 1 1/8" x 2 3/8" (205 mm x 29 mm x 60 mm)		
<b>MODEL</b>	<b>ACTUAL LENGTH</b>	<b>MAX CUT DOWN</b>	<b>DOOR SIZE</b>
GLS7700EO36, FGLS7700EO36	34 9/64"	10"	26" to 36" width
GLS7700EO48, FGLS7700EO48	45 29/32"	12"	36" to 48" width



# GLSCVR7700 & FGLSCVR7700 Series

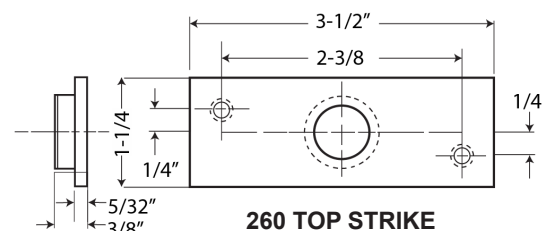


## GRADE 1 Concealed Vertical Type, Narrow Stile Exit Device Optional Less Bottom Rod (LBR)

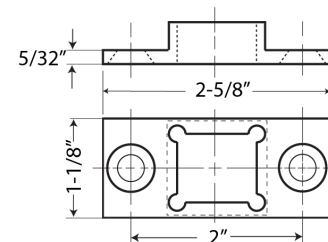


### Specifications

For Doors.....	Metal or Aluminum Glass doors with 1 3/4" minimum stile width, 1 3/4" thickness for single or double door application
Top Chassis.....	Non-ferrous Alloy (Panic Grade)
Cover.....	Non-ferrous plated material
Mounting.....	Furnished with wood and machine screws
End Cap.....	Brass, Bronze or Stainless Steel construction
Hand.....	Handed. Specify RHR or LHR
Top and Bottom Bolts.....	Stainless Steel. Top and bottom bolt travel 7/16" (11 mm) Stainless Steel. Adjustable to 1" (25 mm)
Spring.....	Stainless Steel throughout
ANSI Standard.....	A156.3, Grade 1
Rail Assembly.....	Heavy gauge extruded aluminum body with Stainless Steel push pad
Strike.....	260 Top and 265 Bottom strikes packed standard (See strike page)
Dogging Feature.....	Available for 36" bar only. Allen-type key furnished standard.
Mullion.....	Available
UL and ULC Listed.....	GLSCVR7700 Series for Panic & Safety for all types of 4' x 8' single doors and 8' x 8' double doors for Panic & Safety. FGLSCVR7700 Series for all types of 4' x 8' single doors for up to 3 hour fire labelled installations. Conforms to standards UL10C and UBC 7-2-1997 codes.
Finish.....	Architectural plated finishes
Electronic Functions.....	(ELR) Electrical Latch Retraction and RX & LX Signal Switch available
Anti-Microbial Coating.....	Available on US32D only. Use part # <b>ANTB-EXIT</b>



**260 TOP STRIKE**



**265 BOTTOM STRIKE**

### DIMENSIONS

Push Rail height to finished floor	41" (1041 mm) at center		
Push Rail projection			
Neutral	3 5⁄8" (92 mm)		
Depressed	2 7⁄8" (73 mm)		
Center case	8 1⁄16" x 1 1⁄8" x 2 3⁄8" (205 mm x 29 mm x 60 mm)		
MODEL	ACTUAL LENGTH	MAX CUT DOWN	DOOR SIZE
GLSCVR773684, FGLSCVR773684	34 9⁄64"	10"	26" to 36" width
GLSCVR774884	45 29⁄32"	12"	36" to 48" width

# Trim Selection

## ESCUTCHEON LEVER DESIGN



### CONSTRUCTION

- Free-wheeling clutch mechanism.
- Grade 1, thru-bolted design. Reversible design
- Hardened steel heavy duty tailpiece.
- Available for rim and concealed vertical rod exit devices

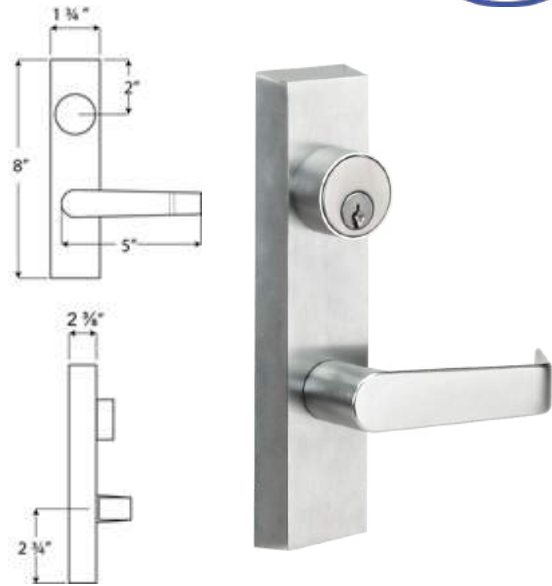
### DOOR THICKNESS

Standard 1 3/4"

### ESCUTCHEON DIMENSIONS

1 13/16" width X 8" length

Lever length: 5"



<b>GLSRIM9800</b>	<b>ENTRANCE</b>
<b>GLSCVR9800</b>	Clutch free-wheeling Entrance,
<b>ICGLSRIM9800</b>	key locks or unlocks escutcheon
<b>ICSCGLSRIM9800</b>	trim ANSI Function (08) Operates
<b>ICGLSCVR9800</b>	as classroom function
<b>ICSCGLSCVR9800</b>	CVR is used for Concealed Vertical Rod Exit Device
	RIM is used for Rim Type Exit Device

<b>GLSRIM9805</b>	<b>STOREROOM</b>
<b>GLSCVR9805</b>	Clutch free-wheeling Storeroom,
<b>ICGLSRIM9805</b>	key unlocks lever, lever retracts latch bolt,
<b>ICSCGLSRIM9805</b>	otherwise always locked.
<b>ICGLSCVR9805</b>	ANSI Function (09)
<b>ICSCGLSCVR9805</b>	CVR is used for Concealed Vertical Rod Exit Device
	RIM is used for Rim Type Exit Device

<b>GLSRIM9830</b>	<b>PASSAGE</b>
<b>GLSCVR9830</b>	Trim always operable and free
	ANSI Function (14)
	CVR is used for Concealed Vertical Rod Exit Device
	RIM is used for Rim Type Exit Device

<b>GLSRIM9840</b>	<b>DUMMY</b>
<b>GLSCVR9840</b>	Dummy Escutcheon trim ANSI Function (02)
	CVR is used for Concealed Vertical Rod Exit Device
	RIM is used for Rim Type Exit Device

**IMPORTANT: GLS9800 and GLSCVR9800**  
Trims can be used with GLS7700 and  
GLSCVR7700 Exit Devices

#### NOTES:

- AT, RL, TUB lever design is available upon request.
- **ELECTRIFICATION NOT AVAILABLE FOR TRIM**
- Electrical Latch Retraction (ELR), Request to Exit (RX) and Latchbolt Monitoring (LX) available for Exit Device only.
- Anti-Microbial Coating available in US26D Only. Use part # "ANTB-TRIM" when ordering.

**KEYWAY:** 6-Pin solid brass "C" keyway Rim Cylinder standard. Optional: Schlage E, Schlage C-K, Russwin D1-2-3-4, Corbin 59/60, Sargent LA-LB-LC, Falcon/Weiser E, Arrow A, Yale 8, Yale GA and Kwikset. Can also accept Medeco, Assa, Kaba and **Cal-Royal HSK** High Secity Cylinders.

**(IC) INTERCHANGEABLE CORE:** Interchangeable Core locks will accept compatible 6 or 7-Pin cores with BEST, FALCON and ARROW

**(ICSC) INTERCHANGEABLE CORE:** Indicates function available with **Schlage Full Size Format** Interchangeable Core. Corbin, Sargent and Yale format also available.

# Trim Selection

## PULL DESIGN - FOR GLS7700 RIM EXIT DEVICE ONLY



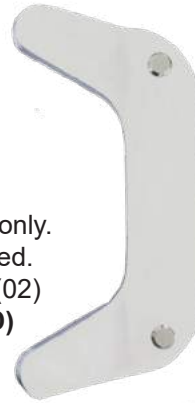
### 98GLSNL ⚙ IC98GLSNL ⚙ ICSC98GLSNL

Outside by pull and key.  
Key retracts latch bolt.  
ANSI Function (03)  
(SPECIFY HANDING)



### 98GLSUP

Outside by pull only.  
Pull when dogged.  
ANSI Function (02)  
(NON-HANDED)



### GLSRIMEOP

Outside cover plate  
only.  
ANSI Function (01)

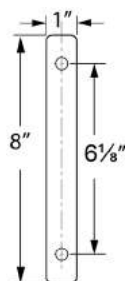
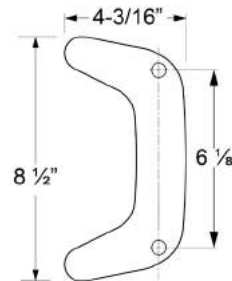
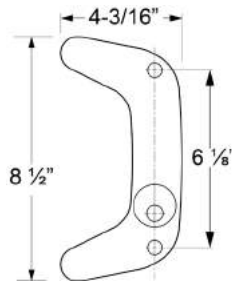


#### KEYWAY

Standard 6-Pin solid brass "C"  
keyway Rim Cylinder included.

#### FINISHES

Architectural plated finishes.



**IMPORTANT: GLS9800 and GLSCVR9800 Trims can be used with GLS7700 & GLSCVR7700 Exit Devices**



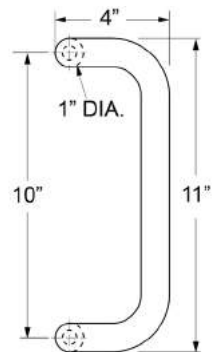
### 98GLSCYL-1



### ⚙ IC98GLSCYL-1 ⚙ ICSC98GLSCYL-1



### OFSTPUL-10 (REVERSIBLE)



**KEYWAY:** 6-Pin solid brass "C" keyway Rim Cylinder standard. Optional: Schlage E, Schlage C-K, Russwin D1-2-3-4, Corbin 59/60, Sargent LA-LB-LC, Falcon/Weiser E, Arrow A, Yale 8, Yale GA and Kwikset. Can also accept Medeco, Assa, Kaba and **Cal-Royal HSK** High Security Cylinders.

⚙ **(IC) INTERCHANGEABLE CORE:** Interchangeable Core locks will accept compatible 6 or 7-Pin cores with BEST, FALCON and ARROW

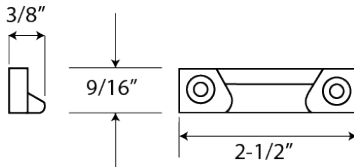
⚙ **(ICSC) INTERCHANGEABLE CORE:** Indicates function available with **Schlage Full Size Format** Interchangeable Core. Corbin, Sargent and Yale format also available.

# Strikes & Accessories



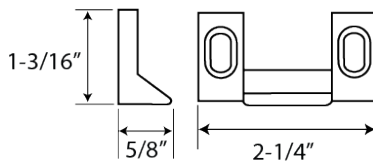
## Strikes for use with A9860V Vertical Rod Exit Device

All strikes are black nylon coated



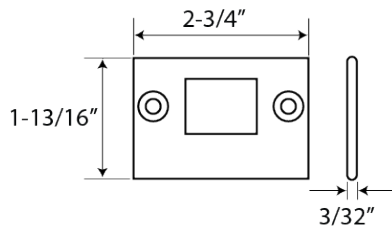
### 221

Standard for A7760V. Applied to surface of floor or to a flat threshold. Standard packaging.



### 227

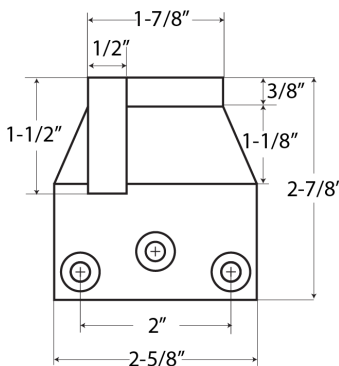
Applied to surface of stop. No mortise required. Standard packaging.



### 233

Bottom strike. Alternate bottom strike. Flush mounting stainless steel. Furnished with expansion shields. Requires mortise in the floor.

## Overlapping Strikes



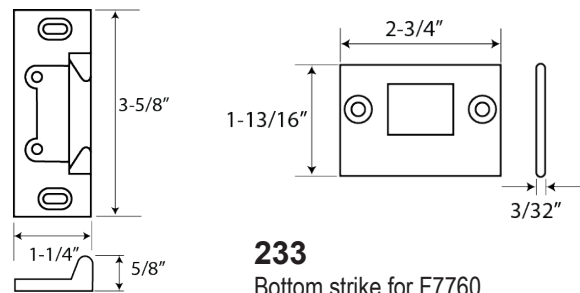
### 951

Surface applied. Used on inactive leaf for device on active leaf of pair of doors without mullion.

## Additional Rods

Vertical rod for 10 feet high doors available on non-fire rated vertical rod devices only. Use Part # VRRD10.

## Strikes for use with A7760V Vertical Rod Fire Exit Device



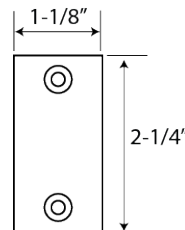
### 233

Bottom strike for F7760. Flush mounting stainless steel. Furnished with expansion shields. Requires mortise in the floor. Standard packaging.

### 245

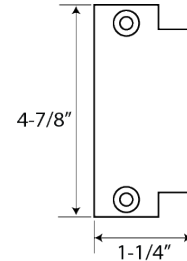
Surface applied for F7760. Standard packaging.

## Additional Accessories



### LFF

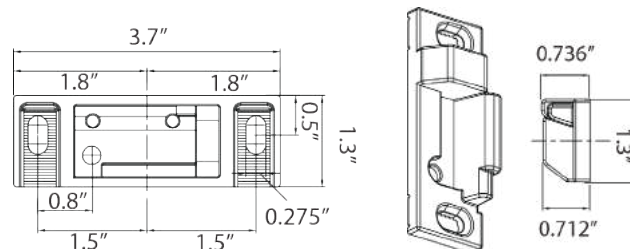
Lock front filler



### SF

Strike filler

## Strikes for use with A7700 Rim Type Exit Device



### 938

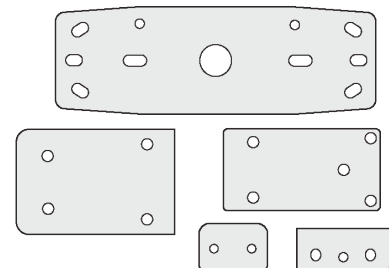
for A7700 surface applied. Standard packaging.

## GLASS BEAD SHIM KITS

**901** – For rim type, 1/8" thick

**906** – For vertical type, 1/8" thick

**912** – For fire rated type, 1/8" thick





# Fire Exit Hardware Selector



FIRE EXIT HARDWARE RATING			UL DOOR RATING
APPLICATION	MODEL #	MAXIMUM DOOR OPENING	(A) 3 HOUR
<b>SINGLE DOORS</b> Rim type	AF7700EO36 AF7720EO48	4'0" X 8'0"	✓
<b>PAIRS OF DOORS</b> Two surface mounted standard vertical rod type or less bottom rod (LBR) application. Prefix <b>LBR</b> before Part #  a) Swinging in same direction b) Swinging in opposite direction (double egress )	AF7760V3684 X AF7760V3684	8'0" X 7'2"	✓
	AF7790V3696 X AF7790V3696 AF7780V4896 X AF7780V4896	8'0" X 8'0"	✓
<b>PAIRS OF DOORS</b> Two rim type with Mullion	AF7700EO36 AF7720EO48	8'0" X 8'0"	✓

All fire rated exit devices in all applications, are also labeled for (B) 1 ½ hour, (C) ¾ hour, (D) 1 hour, (E) ¾ hour.  
All fire exit hardware meet UL10C and UBC 7-2-1997 codes.

## HOW TO ORDER INFORMATION

### Exit device model number

#### Panic grade

A7700 EO36 Rim type 36" door  
A7720 EO48 Rim type 48" door  
A7760 V3684 Vertical rod type 36" x 84"  
A7790 V3696 Vertical rod type 36" x 96"  
A7780 V4896 Vertical rod type 48" x 96"  
VRRD10 – Rod for 10' non-rated door  
A7750 V36120 Vertical rod type 36" x 120"  
A7740 V48120 Vertical rod type 48" x 120"

#### Fire grade

AF7700 EO36 Rim type 36" door  
AF7720 EO48 Rim type 48" door  
AF7760 V3684 Vertical rod type 36" x 84"  
AF7790 V3696 Vertical rod type 36" x 96"  
AF7780 V4896 Vertical rod type 48" x 96"  
AF7750 V36120 Vertical rod type 36" x 120"  
AF7740 V48120 Vertical rod type 48" x 120"

- 1) Specify exit device model number according to size of door.
- 2) Specify trim selection. For Interchangeable Core prefix "IC" before Part #. See trim selection pages.
- 3) For vertical rod devices specify LHR (Left Hand Reverse ) or RHR ( Right Hand Reverse ) for convenience easily field reversible, otherwise shipped as LHR.
- 4) Specify finish: US10B, US32D
- 5) On thru-bolt applications, fire rated vertical rod devices are packed with thru-bolts as standard feature. Thru-bolts are also available for other devices. To order thru-bolts add "SBN" to trim pack.

When ordering separately use following Part #

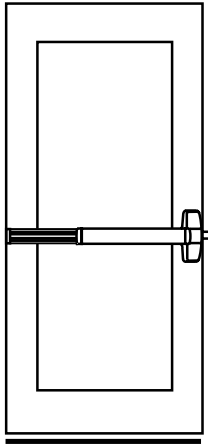
Cal-Royal Part # 357 — Thru-bolts for rim devices, 6 pcs / pack.  
Cal-Royal Part # 369 — Thru-bolts for vertical rod devices, 14 pcs / pack.  
Cal-Royal Part # 363 — Thru-bolts for rim devices, 6 pcs / pack for 2 ¼" thick doors.  
Cal-Royal Part # 375 — Thru-bolts for vertical rod devices, 14 pcs / pack for 2 ¼" thick doors.

**Ordering example:** A7700EO36 ALUM X SBN X ENT00L 26D  
AF7780V4896 10B X ICSTR05L 10B

# 7700 Series Fire and Non-Fire Exit Devices ANSI A156.3 Grade 1 Selector Chart



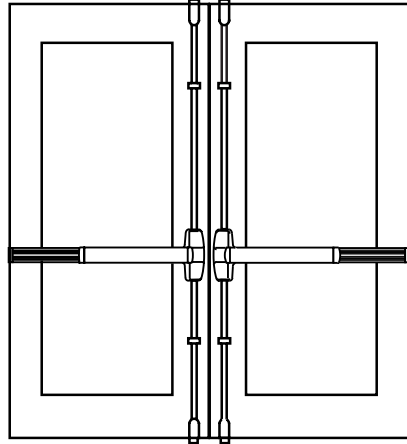
## SINGLE DOOR



Vertical rod type or  
Rim type

Surface applied 2 point lock.  
Surface application

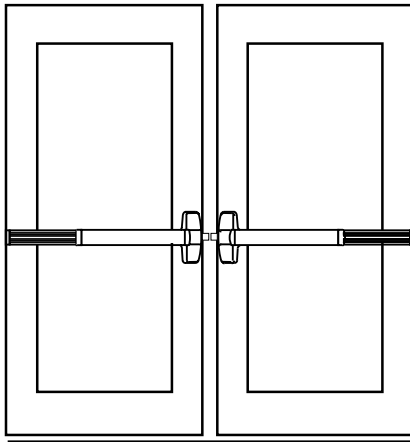
## PAIR OF DOORS WITHOUT MULLION



2 Vertical  
rod type

Surface applied 2 point locking both doors. Each door  
active same direction. Do not use with overlapping astragal.

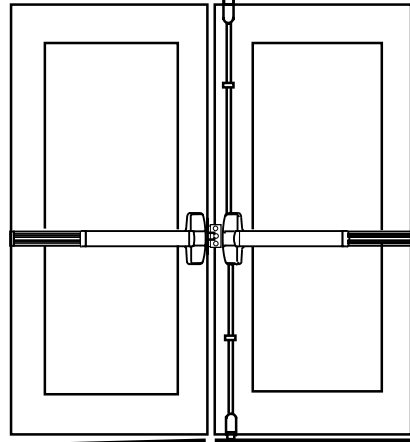
## PAIR OF DOORS WITH MULLION



2 Rim type  
with mullion

Two independent active doors with full double  
door openings when required. Same direction.

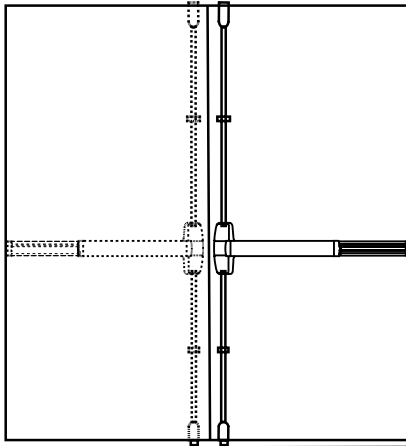
## PAIR OF DOORS WITHOUT MULLION



1 Vertical rod and  
1 Rim type

Both devices are surface applied. A coordinator and overlap-  
ping strike is recommended.

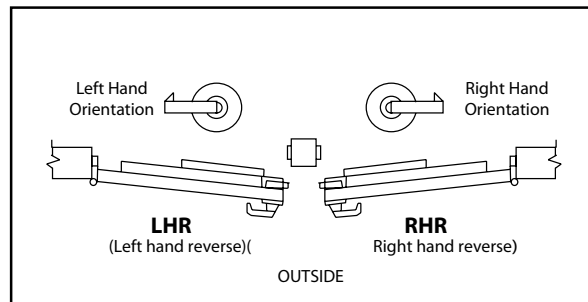
## PAIR OF DOORS WITHOUT MULLION



2 Vertical  
rod type

Double egress surface applied.  
2 point locking both doors opposite directions.

## HANDING



## CAL-ROYAL PRODUCTS, INC.

6605 FLOTILLA ST., COMMERCE, CA 90040 U.S.A.

TEL: (323) 888-6601 FAX: (323) 888-6699

Website: [cal-royal.com](http://cal-royal.com) \* Email: [sales@cal-royal.com](mailto:sales@cal-royal.com)

# Exit Devices Comparison Chart

RIM EXIT DEVICE CONVERSIONS	RIM	VERTICAL ROD	RIM	VERTICAL ROD	CONCEALED VERTICAL ROD	MORTISE RIM	NARROW STILE RIM	NARROW STILE CVR
ARROW	S1200	S1100	S3800 / 1800	S3700	S3600	S3900	S4803	S4601
CAL-ROYAL	6600 / A9800 / A7700	6660V / A9860V / A7760V	A2200 / 4400	A2260V	CVR6600 / MCVR9800 / WCVR9800 / MCVR7700 / WCVR7700	MR6600 / MR9800 / MR7700	GLS6600 / GLS9800 / GLS7700	GLSCVR6600 / GLSCVR9800 / GLSCVR7700
CORBIN / RUSSWIN	ED8200	ED8400	ED5400 / ED6000	ED4750	ED5800	ED5600	ED4200	ED4800
DETEX	V4000	---	10	20	70	30	V40NS	60
DORMA	8300	8400	9300	9400	9100	9500	AD4300	AD4100
PRECISION	5100	5200	2100 / 100	9800 / 200	2800	2300	2400	2600
SARGENT	2828	2727	8800 / 9898	8700	MD8600 / WD8600	8900	AD8500	AD8410
VON DUPRIN	98 / 99	9827 / 9927	98	9827	9947EO	9975EO	33A	3348
YALE	2100	2110	7100 / 1500	7110 / 1510	7120	7130	7250	7220



Distributed by:


## A9800 & AF9800 Rim Type Panic and Fire Exit Devices (ADA) A9860V & AF9860V Vertical Rod Panic and Fire Exit Devices (ADA) ANSI A156.3, Grade 1

**LIFETIME  
WARRANTY**

**BHMA™**  
**CERTIFIED**  
Be Safe. Be Secure. Look for the Mark.

**MEETS**  
*The Buy American Act*

  
ADA  
COMPLIANT

  
3 HOUR FIRE RATED  
UL10C, UBC7-2-1997



### Features & Construction

- ◆ **Retrofits Sargent 8800 Series using 9800 Escutcheon Trim**
- ◆ Americans with Disability Act (ADA) compliant. 5lbs opening force on ADA product only
- ◆ ANSI A156.3, Grade 1 heavy duty exit device in surface vertical rod and rim designs
- ◆ Rail assemblies and end caps are brass, bronze or stainless steel and rail travels in direction of the door swing
- ◆ Trims are thru-bolted for additional security
- ◆ Conforms & meets ADA Regulations (ADA products only)
- ◆ UL Listed for Panic and UL10C, UBC 7-2-1997 codes
- ◆ UL Listed for Fire Exit Hardware. 3 hours
- ◆ (A) label rating on pairs of doors up to 8'0" x 8'0" swinging in same or opposite directions
- ◆ Uncompromising security and safety in single and double fire exit doors
- ◆ Chassis mounted unit construction. Rim and vertical rod devices are non-handed and easily reversible.
- ◆ Available in many different functions. Lever and escutcheon trims are grade 1 construction with clutch on rose trims. Escutcheon trims are rigid and covers 161 cut out.
- ◆ For use in institutions, schools, universities, commercial buildings where heavy duty reliable operation is a requirement

### Suggested Architect's Specifications

- ◆ All exit devices shall be of touch bar design with smooth operation and be operative over  $\frac{2}{3}$  of the door's clear opening width
- ◆ All exit devices must be listed under "Panic Hardware" in the Accident Equipment List of Underwriter' Laboratories, Inc. Where labeled doors are used as exits, they must be equipped with labeled Fire Exit Hardware and UL10C
- ◆ UBC 7-2-1997 codes
- ◆ All springs shall be of stainless steel throughout
- ◆ All exit devices shall be of chassis mounted unit construction.
- ◆ All exit devices shall be ANSI A156.3, Grade 1, ADA option



# A9800 & AF9800 ADA Series

## GRADE 1, Rim Type Exit Device



**\*Americans with Disability Act (ADA) compliant  
5 lbs opening force on ADA Series only**

**\*Refer to the Price List for Stock Sizes and Finishes**

### Specifications

<b>For Doors.....</b>	1 3/4" thick standard optional 2 1/4" thick. 4 1/2" minimum stile width required for single or double door application using standard 239 strike and pull or lever, thumbpiece and escutcheon trims. 2 3/4" backset
<b>Chassis.....</b>	Non-ferrous Alloy (Panic Grade), Steel (Fire Grade)
<b>Cover.....</b>	Brass, Bronze or Stainless Steel. Covers stock hollow metal doors with 161 cutout
<b>Mounting.....</b>	Furnished with wood and machine screws. Available with thru-bolts on request. <b>Thru-bolts are included and standard packaging on fire rated devices</b>
<b>Dogging Feature.....</b>	Allen-type key furnished standard on non-fire labeled devices. Cylinder dogging available
<b>Mullion.....</b>	Available
<b>UL and ULC Listed...</b>	A9800 Series for panic. AF9800 Series for fire exit hardware for all types of 4' x 8' single doors and 8' x 8' double doors for up to 3-hour fire labeled installations, conforms to standards UL10C and UBC 7-2-1997 codes
<b>Finish.....</b>	Architectural plated finishes
<b>Electronic Functions...</b>	(ELR) Electrical Latch Retraction and RX & LX Signal Switch available
<b>Anti-Microbial.....</b>	Available on US32D only. Use part # <b>ANTB-EXIT</b>

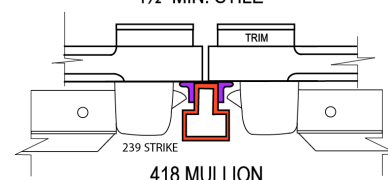
<b>End Cap.....</b>	Brass, Bronze or Stainless Steel construction
<b>Alarm.....</b>	Available.
<b>Hand.....</b>	Non handed, center hub
<b>Latch Bolt.....</b>	Stainless Steel 3/4" throw
<b>Spring.....</b>	Stainless Steel throughout
<b>ANSI Standard.....</b>	A156.3, Grade 1
<b>Strike.....</b>	239 packed standard (See strike page)
<b>Trim.....</b>	See Trim Designs section

### Minimum Stile Requirements

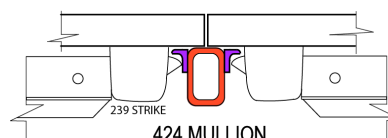
4" escutcheon trims and  
4 1/2" for thumbpiece and rose trim

#### DOUBLE DOOR

4 1/2" MIN. STILE

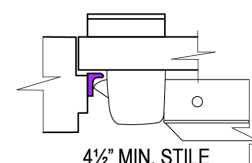


424 MULLION  
4 5/8" MIN. STILE



#### SINGLE DOOR

4 1/2" MIN. STILE



### DIMENSIONS

Touchbar height to finished floor	41" (1041 mm) at center		
Touchbar Projection			
Neutral	2 ½" (64 mm)		
Depressed	1 ¾" (45 mm)		
Center case	8 ½" x 2 ½" x 2" (216 mm x 64 mm x 51 mm)		
<b>MODEL</b>	<b>ACTUAL SIZE</b>	<b>MAX CUT DOWN</b>	<b>DOOR SIZE</b>
A9800EO24, AF9800EO24,	20"	2"	22" to 24" door width
A9800EO32, AF9800EO32	28"	6"	26" to 32" door width
A9800EO36, AF9800EO36	32"	6"	30" to 36" door width
A9820EO48, AF9820EO48	44"	12"	36" to 48" door width

# A9860V & AF9860V ADA Series

## GRADE 1, Vertical Rod Type Exit Device



### Specifications

For Doors.....	1 3/4" thick standard optional 2 1/4" thick. 3 3/4" minimum stile width required for single door application. 3 1/2" minimum stile width required for double door application. Lever, thumbpiece and escutcheon trims available. 2 3/4" backset
Top & Bottom Chassis.....	Non-ferrous Alloy (Panic Grade), Steel (Fire Grade)
Cover.....	Brass, Bronze or Stainless Steel. Covers stock hollow metal doors with 161 cutout.
Mounting.....	Furnished with wood and machine screws. Thru-bolts are standard packaging on fire rated devices
Alarm.....	Available. Prefix "NALRM" before MODEL #
End Cap.....	Brass, Bronze or Stainless Steel Construction
Hand.....	Handed. Easily field reversible. Specify at time of order LHR, RHR for convenience
Latch Bolt, Spring.....	Stainless Steel
ANSI Standard.....	A156.3, Grade 1
Rail Assembly.....	Heavy gauge brass, bronze or stainless steel
Strike.....	See strike page

**\*Americans with Disability Act (ADA) compliant  
5 lbs opening force on ADA Series only**

**\*Refer to the Price List for Stock Sizes and Finishes**

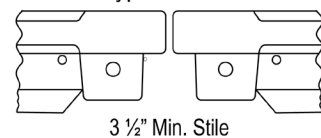
Dogging Feature.....	Allen-type key furnished standard on non-fire labeled devices. Cylinder dogging available
Electronic Functions.....	(ELR) Electrical Latch Retraction and RX & LX Signal Switch available
UL and ULC Listed.....	A9860V Series for panic. AF9860V Series for fire exit hardware for all types of 8' x 10' double doors for up to 3-hour fire labeled installations, conforms to standards UL10C and UBC 7-2-1997 codes
Finish.....	Architectural plated finishes.
Anti-Microbial Coating.....	Available on US32D only. Use part # ANTB-EXIT

### DIMENSIONS

Touchbar height to finish floor	41" (1041 mm) at center
Touchbar Projection	
Neutral	2 1/2" (64 mm)
Depressed	1 3/4" (45 mm)
Panic grade top & bottom latch case	3 15/16" x 2 1/8" x 1 3/8" (100 mm x 54 mm x 35 mm)
Fire grade top latch case	3 15/16" x 2 11/16" x 2 1/16" (100 mm x 68 mm x 52 mm)
Fire grade bottom latch case	3 15/16" x 2 1/8" x 1 3/8" (100 mm x 54 mm x 35 mm)
Top and bottom rod length for 36" x 84"	Top rod 37 1/2" (953 mm), bottom rod 35 5/8" (905 mm)
Top and bottom rod length for 48" x 96"	Top rod 49 5/8" (1260 mm), bottom rod 35 5/8" (905 mm)
Vertical rods	1/2" (13 mm) Round tubing

### Minimum Stile Requirements

Double Door with Two Vertical Rod Type Exit Devices



MODEL	ACTUAL SIZE	MAX CUT DOWN	DOOR SIZE
A9810V2484, AF9810V2484	20"	2"	22" to 24" door width
A9860V3684, AF9860V3684, A9890V3696, AF9890V3696, A9850V36120, AF9850V36120, A9870V3284, AF9870V3284	32"	6"	30" to 36" door width
A9880V4896, AF9880V4896, A9840V48120, AF9840V48120	44"	12"	36" to 48" door width

# ALBR9860V & ALBRF9860V ADA Series

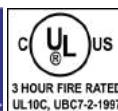
## GRADE 1, Vertical Rod Exit Device Less Bottom Rod



**LIFETIME WARRANTY**

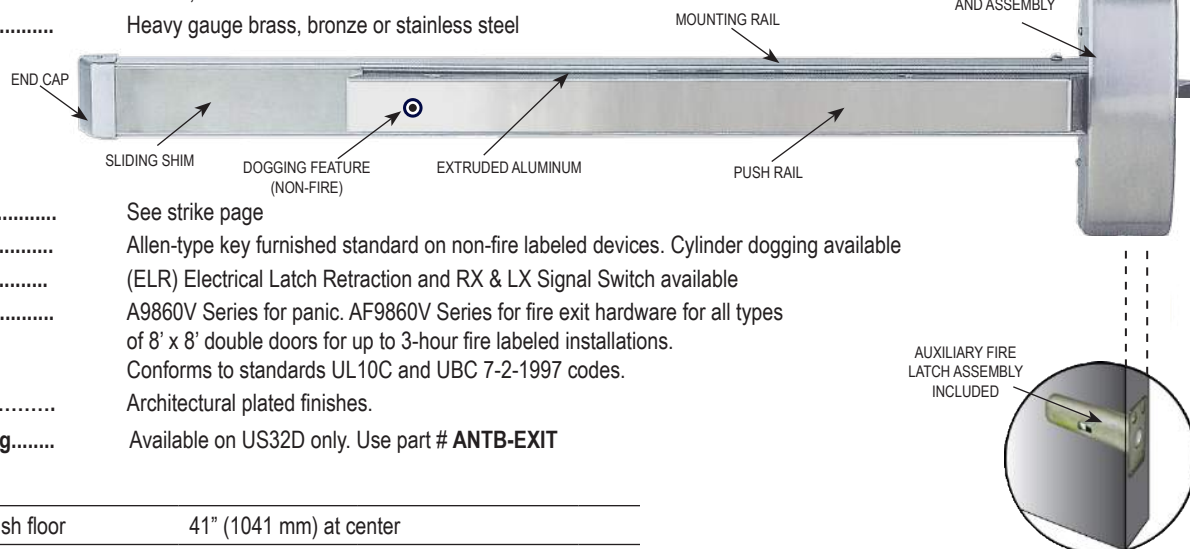
**BHMA CERTIFIED**  
Be Safe. Be Secure. Look for the Mark.

**MEETS**  
*The Buy American Act*



### Specifications

<b>For Doors.....</b>	1 3/4" thick standard optional 2 1/4" thick. 3 3/4" minimum stile width required for single door application. 3 1/2" minimum stile width required for double door application. Lever, thumbpiece and escutcheon trims available. 2 3/4" backset
<b>Top Chassis.....</b>	Non-ferrous Alloy (Panic Grade), Steel (Fire Grade)
<b>Cover.....</b>	Brass, Bronze or Stainless Steel. Covers stock hollow metal doors with 161 cutout.
<b>Mounting.....</b>	Furnished with wood and machine screws. <b>Thru-bolts are standard packaging on fire rated devices</b>
<b>Alarm.....</b>	Available. Prefix "NALRM" before MODEL #
<b>End Cap.....</b>	Brass, Bronze or Stainless Steel Construction
<b>Hand.....</b>	Handed. Easily field reversible. Specify at time of order LHR, RHR for convenience
<b>Latch Bolt, Spring.....</b>	Stainless Steel
<b>Auxiliary Spring Latch.....</b>	Auxiliary spring loaded latchbolt is installed in the lower edge of the door, when exposed to fire, latchbolt releases keeping the door closed and regulated. Comes standard on Fire-Rated device only.
<b>ANSI Standard.....</b>	A156.3, Grade 1
<b>Rail Assembly.....</b>	Heavy gauge brass, bronze or stainless steel



<b>Strike.....</b>	See strike page
<b>Dogging Feature.....</b>	Allen-type key furnished standard on non-fire labeled devices. Cylinder dogging available
<b>Electronic Functions.....</b>	(ELR) Electrical Latch Retraction and RX & LX Signal Switch available
<b>UL and ULC Listed.....</b>	A9860V Series for panic. AF9860V Series for fire exit hardware for all types of 8' x 8' double doors for up to 3-hour fire labeled installations. Conforms to standards UL10C and UBC 7-2-1997 codes.
<b>Finish.....</b>	Architectural plated finishes.
<b>Anti-Microbial Coating.....</b>	Available on US32D only. Use part # ANT-B-EXIT

### DIMENSIONS

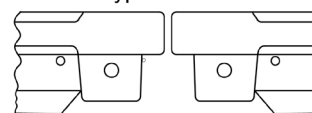
Touchbar height to finish floor	41" (1041 mm) at center
Touchbar Projection	
Neutral	2 1/2" (64 mm)
Depressed	1 3/4" (45 mm)
Panic grade top & bottom latch case	3 15/16" x 2 1/8" x 1 3/8" (100 mm x 54 mm x 35 mm)
Fire grade top latch case	3 15/16" x 2 11/16" x 2 1/16" (100 mm x 68 mm x 52 mm)
Fire grade bottom latch case	3 15/16" x 2 1/8" x 1 3/8" (100 mm x 54 mm x 35 mm)
Top and bottom rod length for 36" x 84"	Top rod 37 1/2" (953 mm)
Top and bottom rod length for 48" x 96"	Top rod 49 5/8" (1260 mm)
Vertical rods	1/2" (13 mm) Round tubing
<b>MODEL</b>	<b>ACTUAL SIZE</b> <b>MAX CUT DOWN</b> <b>DOOR SIZE</b>
ALBR9810V2484, ALBRF9810V2484	20" 2" 22" to 24" door width
ALBR9870V3284, ALBRF9870V3284	28" 6" 26" to 32" door width
ALBR9860V3684, ALBRF9860V3684, ALBR9890V3696, ALBRF9890V3696, ALBR9850V36120	32" 6" 30" to 36" door width
ALBR9880V4896, ALBRF9880V4896, ALBR9840V48120	44" 12" 36" to 48" door width

**\*Americans with Disability Act (ADA) compliant**  
**5 lbs opening force on ADA Series only**

**\*Refer to the Price List for Stock Sizes and Finishes**

### Minimum Stile Requirements

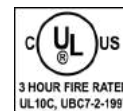
Double Door with Two Vertical Rod Type Exit Devices



3 1/2" Min. Stile

# Alarm Exit Hardware

## GRADE 1 Rim Type Exit Device



## Rim Type Exit Devices

NALRMA9800EO36 Alarm Rim Type 36" Door (Panic Grade)

NALRMA9820EO48 Alarm Rim Type 48" Door (Panic Grade)

FNALRMA980036 Alarm Rim Type 36" Door (Fire Grade)

FNALRMA982048 Alarm Rim Type 48" Door (Fire Grade)

## Vertical Rod Type Exit Devices

Prefix "NALRM" before MODEL #

## Features

- 1, 3, 5-minute and continuous alarm type settings available 3 ½"
- ON and OFF power switch
- Alarm sound frequency is 120 db
- Alarm unit has an internal horn. When the push rail is depressed, the horn sounds to provide an audible means of signaling that the door has been opened and breached
- The key switch to turn alarm off is a standard 1 ¼" cylinder with "C" keyway. The alarm operates on one standard 9-volt transistor battery. When battery is weak the horn will emit an intermittent signal.
- Alarmed units are supplied with a micro switch, which monitors the push rail and the latch bolt for foolproof security on rim devices
- Alarm unit has a signal OC output that can be linked to external alarm control systems
- Easy removal of the alarm unit without the need to dismount the exit device for battery maintenance
- Unit includes "EMERGENCY EXIT ONLY ALARM WILL SOUND" decal for application on door or unit

## Finishes

Cal-Royal	Description	BHMA	US Finish	Material
P	Prime Coat	600	USP	Steel
3	Polished Brass, Clear Powder Coat	605	US3	Brass
4	Satin Brass, Clear Powder Coat	606	US4	Brass
9	Polished Bright Bronze	611	US9	Bronze
10	Satin Bronze, Clear Powder Coat	612	US10	Bronze
10B	Oil Rubbed Bronze	613	US10B	Bronze
26	Polished Bright Chrome	625	US26	Brass
26D	Satin Chrome	626	US26D	Brass
32	Polished Bright Stainless	628	US32	Stainless Steel
32D	Satin Stainless	630	US32D	Stainless Steel



# Trim Selection

## CLUTCH CYLINDRICAL LEVER

### Non-Handed Grade 1 (Clutch Style)

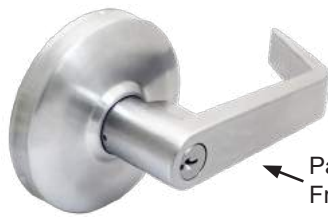
Cylindrical body hardened steel heavy duty tailpiece. For 1 3/4" and 2 1/4" doors. Prefix "THI" before Part # for 2 1/4" door thickness.

Available for fire and non-fire rated rim and vertical rod exit devices.

Rose diameter 3 1/2", lever length 4 3/4". Fits and covers 161 cutout.

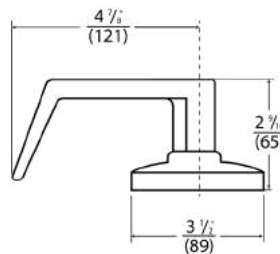
Finishes: US26D, US26, US3, US4, US10B, US10BE, US1

**\*GN DESIGN ONLY: ENT00L, ICENT00L, STR05L, ICSTR05L, PAS30L, DUM40L IN US32D FINISH, ALL STAINLESS STEEL EXTERIOR. INCLUDES GRADE 304SS LEVER AND ROSE**



**GN DESIGN**

Patented Clutch Freewheeling



- ENT00L or
- ICENT00L or
- ICSCENT00L4
- SARICENT00L (Sargent)
- RUSICENT00L (Corbin / Russwin)
- YALICENT00L (Yale)

8000K

- STR05L or
- ICSTR05L or
- ICSCSTR05L4
- SARICSTR05L (Sargent)
- RUSICSTR05L (Corbin / Russwin)
- YALICSTR05L (Yale)

PAS30L

DUM40L

### ENTRANCE

Key locks and unlocks lever. Operates as CLASSROOM FUNCTION. ANSI Function (08)

Ball Knob Keylock

### STOREROOM

Key operates lever, otherwise always locked. ANSI Function (09)

### PASSAGE

Trim always operable and free. ANSI Function (14)

### DUMMY

Dummy trim. One sided ANSI Function (02)

**KEYWAY:** 6-Pin solid brass "C" keyway standard. Optional: Schlage E, Schlage C-K, Russwin D1-2-3-4, Corbin 59/60, Sargent LA-LB-LC, Falcon/Weiser E, Arrow A, Yale 8, Yale GA and Kwikset. Can also accept Medeco, Assa, Kaba and **Cal-Royal HSK** High Security Cylinders.

**(IC) INTERCHANGEABLE CORE:** Interchangeable Core locks will accept compatible 6 or 7-Pin cores with **BEST, FALCON and ARROW**.

**(ICSC) INTERCHANGEABLE CORE:** Indicates function available with **SCHLAGE, CORBIN/RUSSWIN, SARGENT and YALE Full Size Format** Interchangeable Core

KEYWAY	+	DESIGN	+	FUNCTION	+	FINISH
BEST, FALCON, & ARROW - SCHLAGE - CORBIN/RUSSWIN - SARGENT - YALE -		IC ICSC RUSIC SARIC YALIC		AT SPA TUB* AUG DAN LON TAC		ENT00L STR05L PAS30L DUM40L

### HOW TO ORDER IN LFIC

Example: ICSCENT00L4 US26D  
in "SPA" design is  
ICSCSPAENT00L4 US26D

**\*\*Note:** Yale LFIC is only available in GN, AT, SPA lever designs | TUB\* is only available in SFIC.

### Other Lever Trim Designs

Available in  
SFIC & LFIC



**AT**

Available in  
SFIC & LFIC



**SPA**

Available  
in SFIC



**TUB**

Available in  
SFIC & LFIC  
*\*except YALE LFIC*



**AUG**

Available in  
SFIC & LFIC  
*\*except YALE LFIC*



**DAN**

Available in  
SFIC & LFIC  
*\*except YALE LFIC*



**LON**

Available in  
SFIC & LFIC  
*\*except YALE LFIC*



**TAC**



**8000K**

Anti-Microbial Coating available in US26D or US32D Only. Use part # **"ANTB-TRIM"** when ordering.

# Trim Selection



## HEAVY DUTY STAINLESS STEEL CLUTCH LEVER ESCUTCHEON (High Frequency Abusive Situation such as Schools, Hospitals, Industrial / Institutional)

### CONSTRUCTION

- Clutch mechanism
- Double heavy duty spring support to prevent sagging and enhance operation
- Grade 1, thru-bolted design. Non-handed design. Easily field reversible
- All Stainless Steel heavy duty tailpiece.
- Available for fire and non-fire rated rim and vertical rod exit devices
- Standard 6-Pin Schlage "C" Mortise Cylinder included

### DOOR THICKNESS

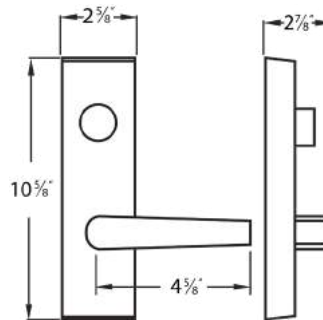
Standard 1 3/4" to 2".

For 2" or 2 1/2" thick door use additional Part # TAIL9

### ESCUTCHEON DIMENSIONS

2 5/8" width X 10 5/8" length. Lever length: 4 5/8".

Fits and covers 2 1/8" 161 cutout



### ENTRANCE

Clutch Entrance, key locks or unlocks escutcheon trim.  
ANSI Function (08)  
Operates as classroom function

### STOREROOM

Clutch Storeroom, key unlocks lever, lever retracts latch bolt, otherwise always locked. ANSI Function (09)

### PASSAGE

Trim always operable and free  
ANSI Function (14)

### DUMMY

Dummy Escutcheon trim  
ANSI Function (02)

**FOR ELECTRIFIED TRIM  
OPTIONS, SEE PAGE 37**

HDESC-00 or

ICHDESC-00

ICSCHDESC-00

HDTSESC-00

ICHDTSESC-00

ICSCHDTSESC-00

HDESC-05 or

ICHDESC-05

ICSCHDESC-05

HDTSESC-05

ICHDTSESC-05

ICSCHDTSESC-05

HDESC-30

HDTSESC-30

HDESC-40

HDTSESC-40

**TO ORDER RL lever design, add "RL" after "HD" when ordering.**  
e.g. HDRLESC-00 for HDESC-00 with RL design.

**KEYWAY:** 6-Pin solid brass "C" keyway Mortise Cylinder standard. Optional: Schlage E, Schlage C-K, Russwin D1-2-3-4, Corbin 59/60, Sargent LA-LB-LC, Falcon/Weiser E, Arrow A, Yale 8, Yale GA and Kwikset. Can also accept Medeco, Assa, Kaba and **Cal-Royal HSK** High Security Cylinders.

**(IC) INTERCHANGEABLE CORE:** Interchangeable Core locks will accept compatible 6 or 7-Pin cores with BEST, FALCON and ARROW

**(ICSC) INTERCHANGEABLE CORE:** Indicates function available with **Schlage Full Size Format** Interchangeable Core. Corbin, Sargent and Yale format also available.

### Lever Trim Designs



**HDESC**



**HDTSESC**



**HDRLESC**

Anti-Microbial Coating  
available in US32D Only.  
Use part # **"ANTB-TRIM"**  
when ordering.

# Trim Selection

## RIGID LEVER ESCUTCHEON



### CONSTRUCTION

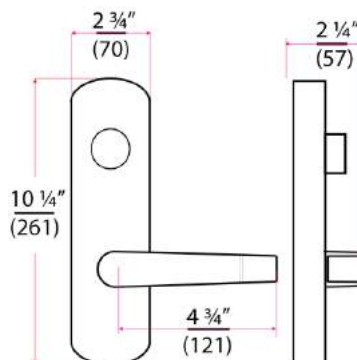
- Rigid, non clutch mechanism.
- Double heavy duty spring support to prevent sagging and enhance operation.
- Grade 1, thru-bolted design. Non-handed design. Easily field reversible.
- Hardened steel heavy duty tailpiece. Available for fire and non fire rated rim and vertical rod exit devices.
- Standard 6-Pin Schlage "C" Mortise Cylinder included

### DOOR THICKNESS

Standard 1  $\frac{3}{4}$ ". For 2  $\frac{1}{4}$ " thick door use additional Part # TAIL3

### ESCUTCHEON DIMENSIONS

2  $\frac{3}{4}$ " width X 10  $\frac{1}{4}$ " length. Lever length: 4  $\frac{3}{4}$ ". Fits and covers 2  $\frac{1}{8}$ " 161 cutout.



Anti-Microbial Coating available in US26D or US32D Only. Use part # "**ANTB-TRIM**" when ordering.

**NESC9800 or**  
**ICNESC9800 or**  
**ICSCNESC9800**

### ENTRANCE

Rigid Entrance, key locks or unlocks escutcheon trim ANSI Function (08) Operates as classroom function

**NESC9805 or**  
**ICNESC9805 or**  
**ICSCNESC9805**

### STOREROOM

Rigid Storeroom, key unlocks lever, lever retracts latch bolt, otherwise always locked ANSI Function (09)

**NESC9830**

### PASSAGE

Trim always operable and free ANSI Function (14)

**NESC9840**

### DUMMY

Dummy Escutcheon trim ANSI Function (02)

**TO ORDER** other lever design insert "**AT**", "**RL**", "**TUB**", "**LON**", or "**TAC**" before "**ESC**": e.g. **ATESC9800** for **NESC9800** with **AT** design.

**KEYWAY:** 6-Pin solid brass "C" keyway Mortise Cylinder standard. Optional: Schlage E, Schlage C-K, Russwin D1-2-3-4, Corbin 59/60, Sargent LA-LB-LC, Falcon/Weiser E, Arrow A, Yale 8, Yale GA and Kwikset. Can also accept Medeco, Assa, Kaba and **Cal-Royal HSK** High Security Cylinders.

**FOR ELECTRIFIED TRIM OPTIONS SEE PAGE 37**

- **(IC) INTERCHANGEABLE CORE:** Interchangeable Core locks will accept compatible 6 or 7-Pin cores with BEST, FALCON and ARROW.
- **(ICSC) INTERCHANGEABLE CORE:** Indicates function available with Schlage Full Size Format Interchangeable Core. Corbin, Sargent and Yale format also available.

### Lever Trim Designs



**NESC**



**ATESC**



**RLESC**



**TUBESC**



**LONESC**



**TACESC**

# Trim Selection

## PULL DESIGN



### 9800 NL IC9800NL ICSC9800NL

#### FOR RIM DEVICES ONLY

Outside by pull and key.  
Key retracts latch bolt.  
ANSI function (03)  
Covers 161 cutout

#### KEYWAY

Standard 6-Pin solid brass "C"  
keyway Rim Cylinder included.

#### FINISHES

Architectural plated finishes.



### 9800 DTP

Outside by pull only.  
Pull when dogged.  
ANSI function (02)  
Covers 161 cutout.



### 9800 EOP

Outside by plate only.  
ANSI function (01)  
Covers 161 cutout



## THUMBPIECE TRIM (OPERATES ON RIM & VERTICAL ROD DEVICES)

### 98TP-00 or IC98TP00 ICSC98TP00

#### ENTRANCE

Key locks or unlocks thumbpiece.  
(Operates as classroom function)  
ANSI Function (05)

### 98TP-05 or IC98TP05 ICSC98TP05

#### STOREROOM

Key unlocks thumbpiece, thumbpiece retracts  
latch bolt, otherwise always locked.  
ANSI Function (06)

### 98TP-30

#### PASSAGE

Trim always operable and free.  
ANSI Function (15)

### 98TP-40

#### DUMMY

Dummy trim. **Includes blank Mortise  
dummy cylinder.** One sided.  
ANSI Function (02)

#### KEYED



#### DUMMY



**KEYWAY:** 6-Pin solid brass "C" keyway Mortise Cylinder standard. Optional: Schlage E, Schlage C-K, Russwin D1-2-3-4, Corbin 59/60, Sargent LA-LB-LC, Falcon/Weiser E, Arrow A, Yale 8, Yale GA and Kwikset. Can also accept Medeco, Assa, Kaba and **Cal-Royal HSK** High Security Cylinders.

### ⚙️ (IC) INTERCHANGEABLE CORE

Interchangeable Core locks will accept compatible 6 or 7-Pin cores with BEST, FALCON and ARROW.

### ⚙️ (ICSC) INTERCHANGEABLE CORE: Indicates function available with Schlage Full Size Format

Interchangeable Core. Corbin, Sargent and Yale format also available.

#### FINISHES

Architectural plated finishes.



# Electrified Lever Trim

Cal-Royal's electrified lever trim provides remote locking and unlocking capabilities using industry safety standards. The solenoid can be energized from a distant controller, thus allowing access control of the opening.

The control of stairwells in high-rise buildings is a common application for this trim, where electric pullback of the exit device's latch bolt is cost prohibitive or not required. This is especially practical in applications where fire/life safety codes require a "fail-safe" condition which is not an option with electrified latch pullback devices. Because the current draw is quite low there is no need for a more expensive power supply to provide the surge current.

## Features

- Continuous duty solenoids used to insure trouble-free operation
- Internally mounted solenoid to ease installation (no special door prep required)
- No hassle 3-year warranty

## Options

- Available Fail Safe (Electrically Locked) or Fail Secure (Electrically Unlocked)
- Voltage options – 12V or 24V (AC / DC)
- Request to Enter Switch (REE) available
- CRU2 – Current Reduction Unit to improve solenoid life in "continuously on" applications

## Specifications

Solenoid..... Continuous Duty

Operating Voltage.... 12 or 24V AC / DC  $\pm$  10%  
(must specify 12 or 24 volts when ordering)

Amperage.....250mA @ 12V or 150mA @ 24V

Coil Resistance.....12V = 49 $\Omega$  or 24V = 159 $\Omega$

## To order, Specify:

OPTIONS: FAIL SAFE (FS)

FAIL SECURE (FSE)

ITEM#	DESCRIPTION
FS12	FS12 FAIL-SAFE OPTION 12V AC/DC
FS24	FS24 FAIL-SAFE OPTION 24V AC/DC
FSE12	FSE12 FAIL-SECURE OPTION 12V AC/DC
FSE24	FSE24 FAIL-SECURE OPTION 24V AC/DC

**TO ORDER** other design, ADD: "NESC98", "ATESC98", "RLESC98", "TUBESC98", "LONESC98", or "TACESC98" after the Electrification.  
e.g. FSE24**ATESC98** for NESC98 in AT design

**TO ORDER** heavy duty design add **HD**, **TS**, or **RL** to Item #  
e.g. FS12**HD** or FS12**TS** or FS12**RL**

## Lever Trim Designs



**NESC**



**ATESC**



**RLESC**



**TUBESC**



**LONESC**



**TACESC**



**HDESC**



**HDTSESC**



**HDRLESC**

Anti-Microbial Coating available in US26D or US32D Only.  
Use part # **"ANTB-TRIM"** when ordering.

# (ELR) Electric Latch Retraction



Our motor driven electrified latch pullback exit device allows for remote keyless access control in high occupancy / high traffic conditions where exit devices are required. Common applications include conditions such as hospitals, airports, schools, churches and they are commonly specified in applications that require automatic door openers. The device may be continuously energized allowing for a push / pull condition if desired.

## Features:

- Available on 9800 Series, including rim, vertical rod, concealed vertical rod, mortise exit device, fire and non fire-rated devices
- MM4 Smart Module: On board diagnostics with audible feedback for adjustment and power issues
- “PTS” (Push to Set Technology): 5 second electronic adjustment for easy post installation adjustment
- Electric dogging rated for continuous duty - Auto retraction if dogged push pad is pulled from position
- Low Current Draw - Field switchable to “High Torque” mode
- Up to 300’ wire run with (2) 18ga wire - Long wire runs provides installer with convenience of placing the locking device power supply in a centralized location; i.e. the same closet as the access panel
- 8’ cable with Quick Connect for MM4 module to easily connect to power supply lead
- 3-year “No Hassle” warranty

## Specifications:

- Voltage – 24 to 28V DC
- System protection – unit shutdown when voltage exceeds 28V DC
- Average In-rush Current – 900mA; Average Hold Current - 215mA
- PTS adjustment – approx. 1/4”
- Wire run: 300’ with 18ga wire



**INSTALLED ON THE EXIT  
DEVICE: USE FLR2298 ADD**

**FOR FIELD INSTALLATION  
USE FLR2298 KIT**

## To Order:

- **Must Specify: Exit Device item #** and **FLR2298 ADD** as two separate line items.  
For Example: A9800EO36 US32D with ELR option, order “**A9800EO36 US32D**”, and “**FLR2298 ADD**” as two line items.
- **\*Use FLR2298 KIT if ordered separately.**
- **Optional Switch** (RX or LX) is also available and should be added as a **3<sup>rd</sup> line item** as needed.

**Note:** When using electrified hinge, you must use prefix ELELRn + hinge item code, where “n” is equal to number of wires. For example: ELELR4 + BB31.

**MUST USE CRP POWER SUPPLIES TO  
HONOR WARRANTY (see pages 97-98)**

# Signal Switch RX and LX

**RX** (request to exit) signal switch is used to signal the use of an opening from the push side. When the push pad is depressed, the switch is activated. These devices are equipped with an internal SPDT (single pole double throw) switch that monitors the touch bar.

**LX** (latch bolt monitoring) signal switch monitors both egress and access of an opening. When the latch bolt is retracted, the switch is activated. These devices are equipped with an internal SPDT (single pole double throw) switch that monitors the latch bolt position.

**LX** and **RX** switches can be combined.

**LX, RX** switches can be used in combination with ELR (electric latch retraction) option.

## Specifications

**RX** or **LX**.....Switch rated 0.5 amps @ 24V AC / DC resistive  
Low current **RX** or **LX**.Switch rated 0.5 amps @ 24V AC / DC resistive

## for Factory Installed. To Order, Specify:

**RX22/98**.....Request to Exit switch for field installation  
**LX9800**.....Latch bolt Monitoring switch for field installation  
**LXR9800**.....Latch bolt Monitoring / Request to Exit Combination

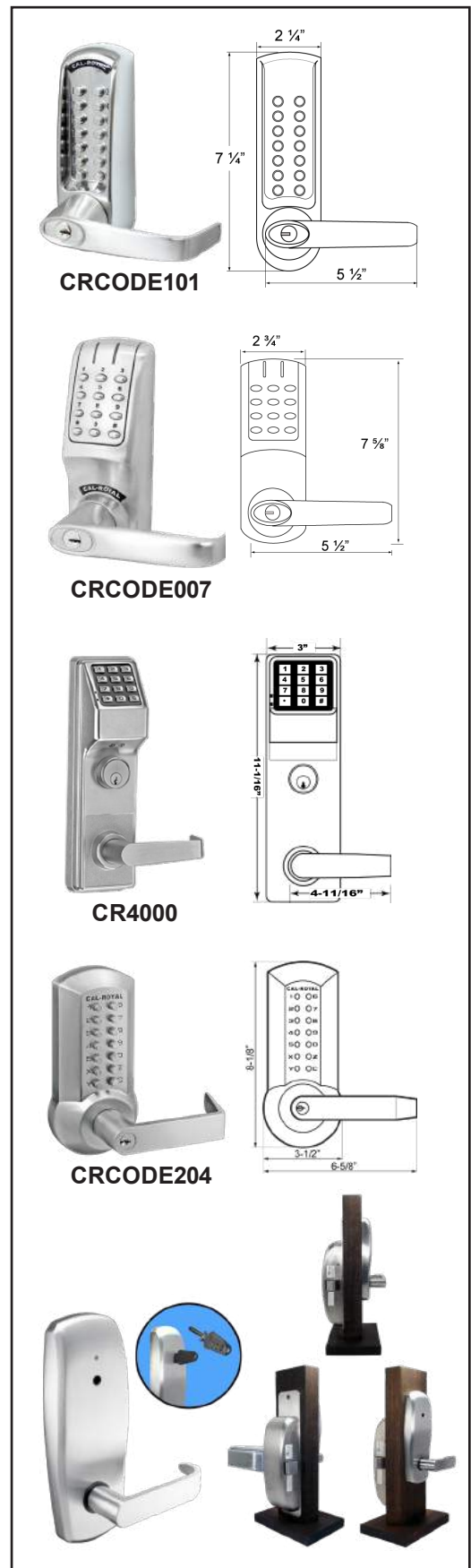
# Heavy Duty Digital Exit Trims



## MECHANICAL CRCODE101

### Features

- Heavy Duty
- Designed for 6600, 7700 and 9800 Series
- Grade 1 Rim and Surface Vertical Rod Exit Devices
- Single Code (up to 8000 code combinations)
- Weather-Resistant finish
- Code can be changed anytime without dismounting
- Full size, Non-Handed lever handle
- Easy Installation
- Reversible Handing



## ELECTRONIC CRCODE007

### Features

- Dual mode for code free entry either mechanically by key or electronically thru the keypad
- Designed for 6600, 7700 and 9800 Series Rim Exit Devices
- Can store up to 90 different numeric user codes in 4, 5 or 6 digits
- Settings remain in memory when batteries are removed
- Audible alarm sounds after 3 incorrect attempts
- Connections available for remote release switch and automatic lock activation when linked to Fire alarm system
- Can be used as STOREROOM or CLASSROOM function
- Factory default set as STOREROOM function
- Fast and easy programming via master code

## CR4000 TRILOGY® KEYLESS EXIT TRIM

### Features

- Clutch mechanism insures long life and durability
- Fingertip and / or Windows programmable
- 2000 User Codes: Master, manager, supervisor and users
- Real Time Clock for up to 40,000 Event Time / Date-Stamped Audit Trail
- Up to 500 Lock / Unlock Schedules (with Time Zone Support)
- Rugged 12-Button Metal Keypad
- Non-Handed; Fully Field Reversible
- Adaptable to most major manufacturers of standard RIM and IC RIM Cylinders
- Battery operated; uses 5 AA batteries
- Optional Interchangeable Core available with Best, Falcon & Arrow

## MECHANICAL CRCODE204

### Features

- Breakaway Lever Design
- Easy On-Door Code Change
- Weather Resistant
- Code-Free Option (Passage)
- Non-Handed
- 1 - 12 digit Length Code
- Thousands of Possible Code Combinations
- Single Code User
- Applications: Offices, Schools, Hospitals, Apartments, Hotels / Motels, Residential, Commerical and Public Buildings
- Door Thickness: 1 3/4" - 2"

## KABA® - Cal-Royal Combination

Cal-Royal's Exit hardware devices combined with Kaba InSync CP provide a variety of alternatives when addressing community access control. Recommended for applications such as controlling building entry openings, common area rooms and doors with exit devices. InSync CP are available as stand-alone battery operated door locks designed to work in conjunction with Cal-Royal's Exit Hardware Devices.

**KABA InSync CP is not sold through CAL-ROYAL.** For inquiries and information on InSync line of products please visit [www.kabamultihousing.com](http://www.kabamultihousing.com)

# MCVR9800 & FMCVR9800 Series

Optional Less Bottom Rod (LBR)

GRADE 1, Concealed Vertical Rod Exit Device for Metal Doors



**LIFETIME  
WARRANTY**

**BHMA<sup>TM</sup>**  
**CERTIFIED**  
Be Safe. Be Secure. Look for the Mark.

**MEETS**  
*The Buy American Act*

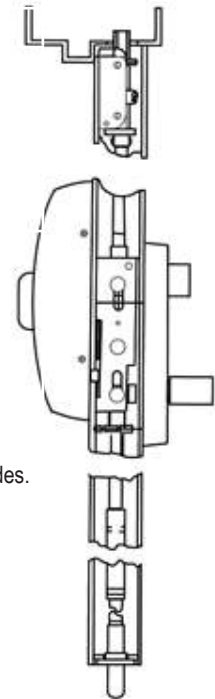
**UL<sup>®</sup> US**  
3 HOUR FIRE RATED  
UL10C, UBC7-2-1997

## Specifications

<b>LBR (Optional)</b> .....	No Bottom Strike. Free access for wheel chairs, stretchers and carts which eliminates tripping potential and disfiguration of floors due to dragging of bottom bolts.
<b>For Doors</b> .....	Metal. 1 3/4" (44.5 mm) minimum thickness 4 1/2" (114 mm) minimum stile width
<b>Top Chassis</b> .....	Steel
<b>Chassis Cover</b> .....	Stainless Steel or Non-ferrous plated material
<b>Mounting</b> .....	Furnished standard with machine screws
<b>End Cap</b> .....	Brass, Bronze or Stainless Steel construction Available
<b>Hand</b> .....	Handed. Easily field reversible. Specify at time of order LHR, RHR for convenience
<b>ANSI Standard</b> .....	A156.3, Grade 1
<b>Strikes</b> .....	260 top and 265 bottom
<b>Top and Bottom Bolts</b> .....	Stainless Steel. Top and bottom bolt travel 7/16" (11 mm) Projection adjustable up to 1" (25 mm)

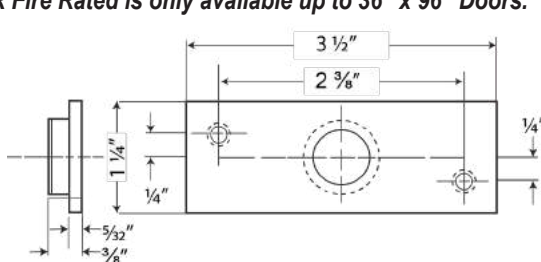


<b>Fire Exit Hardware</b> .....	FMCVR9800 Series for fire exit hardware for all types of 8' x 10' double doors, LBR Series for fire exit hardware for all types of 8' x 8' double doors for up to 3-hour fire labeled installations. Conforms to standards UL10C and UBC 7-2-1997 codes.
<b>Rail Height</b> .....	Specify door opening and mounting height of the center line of rail when ordering a Vertical Rod Exit Device 41" from floor
<b>Trim</b> .....	See Trim Designs section
<b>Electronic Functions</b> .....	(ELR) Electrical Latch Retraction and RX & LX Signal Switch available
<b>Alarm</b> .....	Prefix "NALRM" before PART #
<b>Dogging Feature</b> .....	Cylinder dogging available for non-rated applications
<b>Anti-Microbial Coating</b> .....	Available on US32D only. Use part # ANT-B-EXIT



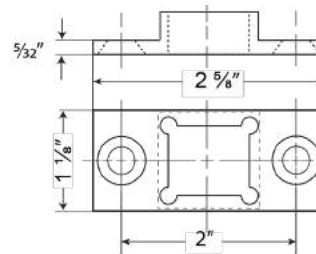
MODEL	ACTUAL LENGTH	MAX CUT DOWN	DOOR SIZE
M98CVR3684, FM98CVR3684, M98CVR3696, FM98CVR3696, M98CVR36120, FM98CVR36120	32"	6"	30" to 36" door width
M98CVR4896, FM98CVR4896, M98CVR48120, FM98CVR48120	44"	12"	36" to 48" door width

**\*LBR Fire Rated is only available up to 36" x 96" Doors.**



**260 TOP STRIKE**

- For applications metal frames
- Stainless Steel



**265 BOTTOM STRIKE**

- Furnished with expansion shields
- Mortised into floor
- Stainless Steel



# WCVR9800 & FWCVR9800 Series

Optional Less Bottom Rod (LBR)

GRADE 1, Concealed Vertical Rod Exit Device for Wood Doors



**LIFETIME  
WARRANTY**

**BHMA  
CERTIFIED**  
Be Safe. Be Secure. Look for the Mark.

**MEETS**  
*The Buy American Act*

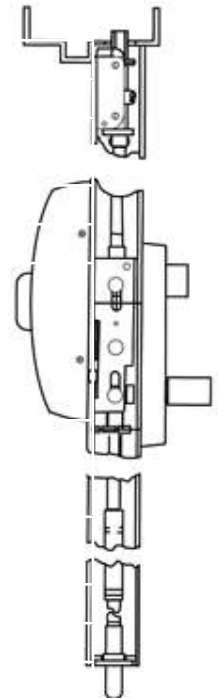
**UL**  
3 HOUR FIRE RATED  
UL10C, UBC7-2-1997

## Specifications

<b>LBR (Optional)</b> .....	No Bottom Strike. Free access for wheel chairs, stretchers and carts which eliminates tripping potential and disfiguration of floors due to dragging of bottom bolts.
<b>For Doors</b> .....	Wood. 1 3/4" (44.5 mm) minimum thickness 4 1/2" (114 mm) minimum stile width
<b>Top Chassis</b> .....	Steel
<b>Chassis Cover</b> .....	Stainless Steel or Non-ferrous plated material
<b>Mounting</b> .....	Furnished standard with machine screws
<b>End Cap</b> .....	Brass, Bronze or Stainless Steel construction
<b>Hand</b> .....	Handed. Easily field reversible. Specify at time of order LHR, RHR for convenience
<b>ANSI Standard</b> .....	A156.3, Grade 1
<b>Strikes</b> .....	260 top and 265 bottom
<b>Top and Bottom Bolts</b> .....	Stainless Steel. Top and bottom bolt travel 7/16" (11 mm) Projection adjustable up to 1" (25 mm)

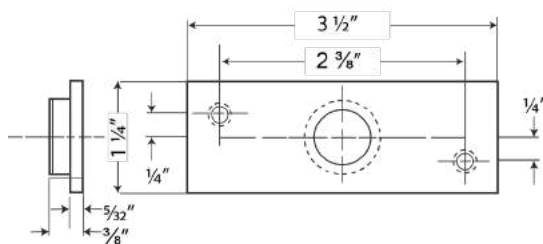


<b>Fire Exit Hardware</b> .....	FWCVR9800 Series for fire exit hardware for all types of 8' x 10' double doors, LBR Series for fire exit hardware for all types of 8' x 8' double doors for up to 3-hour fire labeled installations. Conforms to standards UL10C and UBC 7-2-1997 codes.
<b>Rail Height</b> .....	Specify door opening and mounting height of center line of rail when ordering a Vertical Rod Exit Device 41" from floor
<b>Trim</b> .....	See Trim Designs section
<b>Electronic Functions</b> .....	(ELR) Electrical Latch Retraction and RX & LX Signal Switch available
<b>Alarm</b> .....	Prefix "NALRM" before PART#
<b>Dogging Feature</b> .....	Cylinder dogging available for non-rated applications
<b>Anti-Microbial Coating</b> .....	Available on US32D only. Use part # ANT-B-EXIT



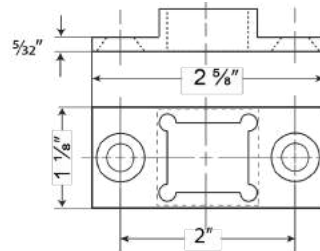
MODEL	ACTUAL LENGTH	MAX CUT DOWN	DOOR SIZE
W98CVR3684, FW98CVR3684, W98CVR3696, FW98CVR3696, W98CVR36120, FW98CVR36120	32"	6"	30" to 36" door width
W98CVR4896, FW98CVR4896, W98CVR48120, FW98CVR48120	44"	12"	36" to 48" door width

**\*LBR Fire Rated is only available up to 36" x 96" Doors.**



**260 TOP STRIKE**

- For applications metal frames
- Stainless Steel



**265 BOTTOM STRIKE**

- Furnished with expansion shields
- Mortised into floor
- Stainless Steel

# MCVR9800, FMCVR9800, WCVR9800 & FWCVR9800

## Concealed Vertical Rod Exit Devices For Wood and Metal Doors



## Trim Selection

### ESCUTCHEON LEVER DESIGN

#### CONSTRUCTION

- Free-wheeling clutch mechanism
- Grade 1, thru-bolted design
- Non-handed design. Easily field reversible.

#### FINISHES

Architectural plated finishes

#### DOOR THICKNESS

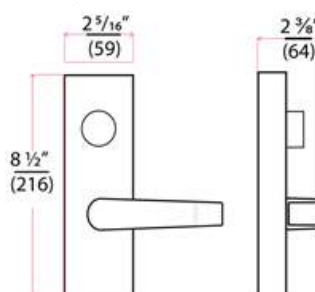
Standard 1 3/4"

#### ESCUTCHEON DIMENSIONS

2 5/16" width X 8 1/2" length. Lever length: 4 3/4".  
Fits and covers 2 1/8" 161 cutout



CVRESC



#### Lever Trim Designs



RLCVRESC



ATCVRESC



TUBCVRESC

Anti-Microbial Coating  
available in US26D Only.  
Use part # "ANTB-TRIM"  
when ordering.

CVRESC00 or  
⚙️ ICCVRESC00 or  
⚙️ ICSCCVRESC00

#### ENTRANCE

Clutch Entrance, key locks or unlocks escutcheon trim  
ANSI FUNCTION (08) Operates as classroom function

CVRESC05 or  
⚙️ ICCVRESC05 or  
⚙️ ICSCCVRESC05

#### STOREROOM

Clutch Storeroom, key unlocks lever, lever retracts  
latch bolt, otherwise always locked, ANSI FUNCTION (09)

CVRESC30

#### PASSAGE

Trim always operable and free, ANSI FUNCTION (14)

CVRESC40

#### DUMMY

Dummy Escutcheon trim, ANSI FUNCTION (02)

**KEYWAY:** 6-Pin solid brass "C" keyway Mortise Cylinder standard.

Optional: Schlage E, Schlage C-K, Russwin D1-2-3-4, Corbin 59/60, Sargent LA-LB-LC, Falcon/Weiser E, Arrow A, Yale 8, Yale GA and Kwikset. Can also accept Medeco, Assa, Kaba and **Cal-Royal HSK** High Security Cylinders.

⚙️ **(IC) INTERCHANGEABLE CORE:** Interchangeable Core locks will accept compatible 6 or 7-Pin cores with BEST, FALCON and ARROW

⚙️ **(ICSC) INTERCHANGEABLE CORE:** Indicates function available with **Schlage Full Size Format** Interchangeable Core. Corbin, Sargent and Yale format also available.

**FOR ELECTRIFICATION OPTION:  
SPECIFY ITEM# UPON ORDERING  
FOR ENTRANCE, STOREROOM, AND  
PASSAGE ESCUTCHEON LEVER TRIMS**

ITEM#	DESCRIPTION
FS12CVR	FAIL-SAFE (FS) OPTION 12V AC / DC
FS24CVR	FAIL-SAFE (FS) OPTION 24V AC / DC
FSE12CVR	FAIL-SECURE (FSE) OPTION 12V AC / DC
FSE24CVR	FAIL-SECURE (FSE) OPTION 24V AC / DC

# MR9800 & FMR9800 Series

## GRADE 1, Mortise Lock Exit Device

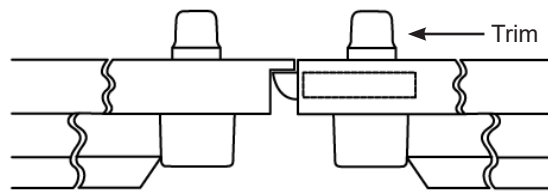
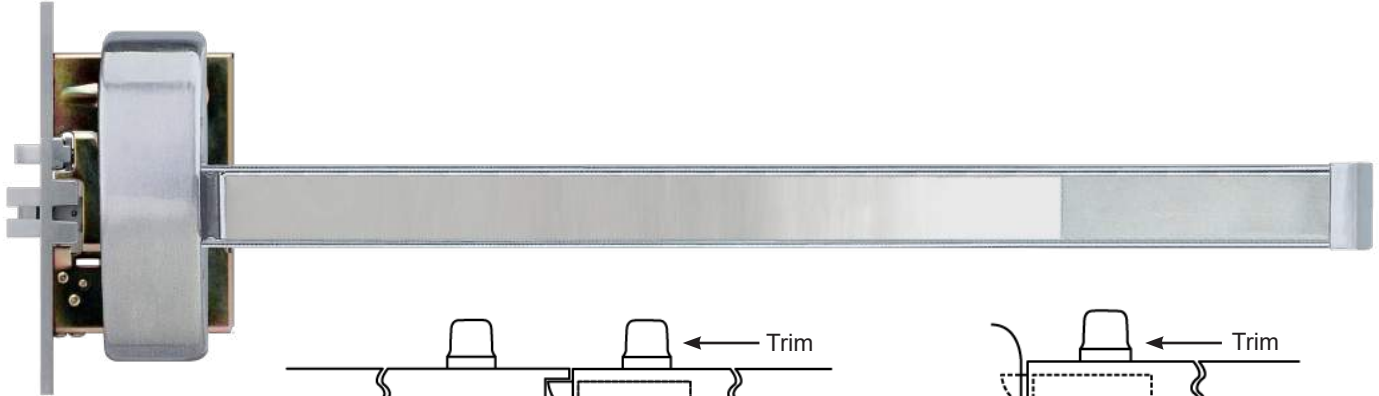


**LIFETIME  
WARRANTY**

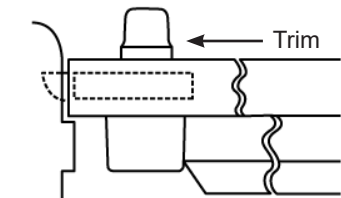
**BHMA™  
CERTIFIED**  
Be Safe. Be Secure. Look for the Mark.

**MEETS**  
*The Buy American Act*

**UL US**  
3 HOUR FIRE RATED  
UL10C, UBC7-2-1997



Pair of Doors

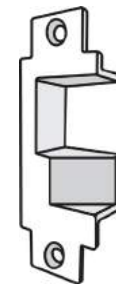


Single Doors

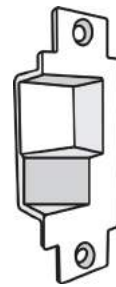
### Specifications

<b>For Doors.....</b>	Wood / Metal 1 3/4" (44.5 mm) minimum thickness 4 1/2" (114 mm) minimum stile width
<b>Chassis.....</b>	Non-ferrous Alloy (Panic Grade), Steel (Fire Grade)
<b>Chassis Cover.....</b>	Non-ferrous plated material
<b>Mounting.....</b>	Furnished standard with wood and machine screws
<b>End Cap.....</b>	Brass, Bronze or Stainless Steel construction
<b>Handing.....</b>	Handed. Non-Reversible. Specify RHR or LHR
<b>ANSI Standard.....</b>	A156.3, Grade 1
<b>Strikes.....</b>	Standard ANSI strike
<b>Fire Exit Hardware.....</b>	FMR9800 Series for fire exit hardware for all types of 8' x 8' double doors for up to 3-hour fire labeled installations. Conforms to standards UL10C and UBC 7-2-1997 codes
<b>Mortise Lock.....</b>	Grade (1) for 1 3/4" (44.5 mm) thick doors. Handed (Non-reversible). Specify RHR or LHR. Fits door prepared for ANSI Standard A115.1
<b>Trim.....</b>	See Trim Designs section
<b>Electronic Functions.....</b>	(ELR) Electrical Latch Retraction and RX & LX Signal Switch available
<b>Alarm.....</b>	Prefix " <b>NALRM</b> " before PART #
<b>Dogging Feature.....</b>	Cylinder dogging available for non-fire rated applications
<b>Anti-Microbial Coating.....</b>	Available on US32D only. Use part # <b>ANTB-EXIT</b>

### OPTIONAL OPEN BACK STRIKE



OBSTRKLH



OBSTRKRH

MODEL SIZE	ACTUAL LENGTH	MAX CUT DOWN	DOOR SIZE
MR9800EO36, FMR9800EO36 MR9805EO36, FMR9805EO36	32"	6"	30" to 36" door width
MR9800EO48, FMR9800EO48 MR9805EO48, FMR9805EO48	44"	12"	36" to 48" door width

# MR9800 & FMR9800 Series

GRADE 1 Mortise Lock Exit Device



## Trim Selection

### ESCUTCHEON LEVER DESIGN

#### FINISHES

Architectural plated finishes

#### DOOR THICKNESS

Standard 1 3/4"

#### HANDING

Non-Handed Trim

#### ESCUTCHEON DIMENSIONS

2" width X 8 1/2" length.

Lever length: 4 3/4".



**IMPORTANT: MR7700 and FMR7700 Mortise Lock case comes standard with exit device. (TRIMS SOLD SEPARATELY)**

**MRESC-00 or MRESC00TS or**  
**ICMRESC-00 or**  
**ICSCMRESC-00**  
**ICMRESC-00TS**

#### ENTRANCE

Key locks or unlocks lever

Operates as classroom function

ANSI FUNCTION (08)

**MRESC-05 or MRESC05TS or**  
**ICMRESC-05 or**  
**ICSCMRESC-05 or**  
**ICMRESC-05TS**

#### STOREROOM

Key retracts latch bolt, otherwise always locked

ANSI FUNCTION (09)

\*MUST USE MR7705EO36/48

Mortise Rim Exit

**MRESC-30**  
**MRESC30TS**

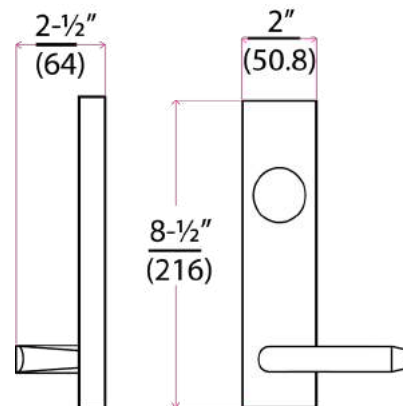
#### PASSAGE

Trim always operable and free

ANSI FUNCTION (14)

\*MUST USE MR7705EO36/48

Mortise Rim Exit



Anti-Microbial Coating available in US26D Only.  
 Use part # "ANTB-TRIM" when ordering.

**KEYWAY:** 6-Pin solid brass "C" keyway Mortise Cylinder standard. Optional: Schlage E, Schlage C-K, Russwin D1-2-3-4, Corbin 59/60, Sargent LA-LB-LC, Falcon/Weiser E, Arrow A, Yale 8, Yale GA and Kwikset. Can also accept Medeco, Assa, Kaba and **Cal-Royal HSK** High Security Cylinders.

**(IC) INTERCHANGEABLE CORE:** Interchangeable Core locks will accept compatible 6 or 7-Pin cores with BEST, FALCON and ARROW

**(ICSC) INTERCHANGEABLE CORE:** Indicates function available with **Schlage Full Size Format** Interchangeable Core. Corbin, Sargent and Yale format also available.

**MORTISE LOCK CASE ELECTRIFICATION OPTION:  
 SPECIFY ITEM# UPON ORDERING**

(MORTISE LOCK CASE COMES STANDARD WITH EXIT DEVICE)

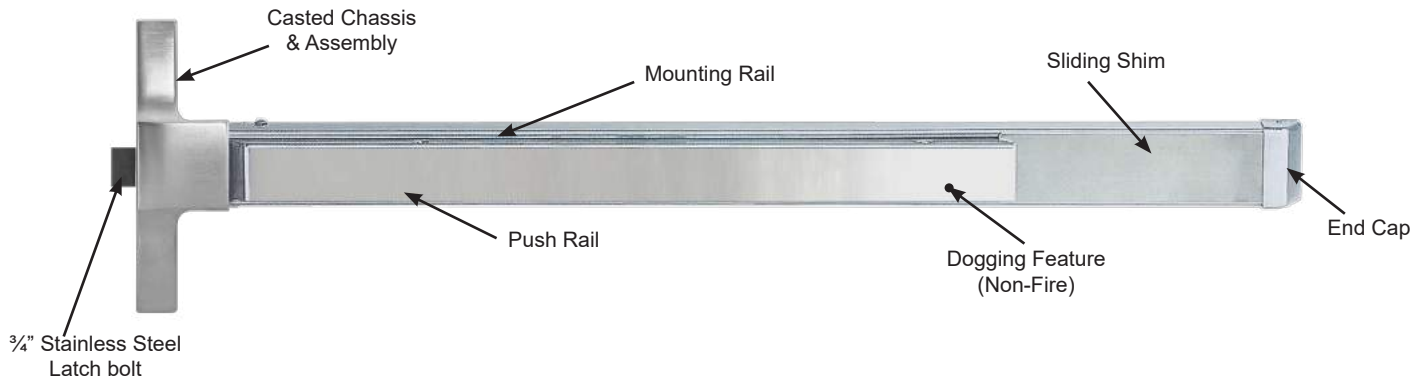
ITEM#	DESCRIPTION
FS12MR	FAIL-SAFE (FS) OPTION 12V AC / DC
FS24MR	FAIL-SAFE (FS) OPTION 24V AC / DC
FSE12MR	FAIL-SECURE (FSE) OPTION 12V AC / DC
FSE24MR	FAIL-SECURE (FSE) OPTION 24V AC / DC

\*Must be used with MRESC00 Trim.



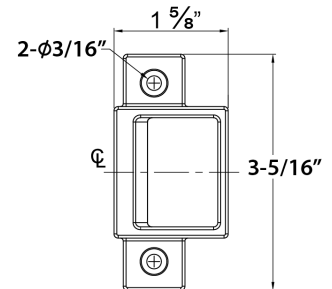
# GLS9800 & FGLS9800 Series

## GRADE 1 Rim Type Narrow Stile Exit Device

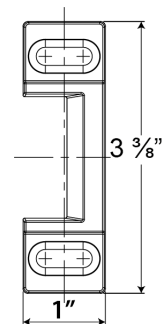


### Specifications

<b>For Doors.....</b>	Wood, Metal or Aluminum Glass doors with 1 3/4" minimum stile width, 1 3/4" thickness for single or double door application
<b>Chassis.....</b>	Non-ferrous Alloy (Panic Grade)
<b>Cover.....</b>	Non-ferrous plated material.
<b>Mounting.....</b>	Furnished with wood and machine screws. Thru-bolts available upon request.
<b>End Cap.....</b>	Brass, Bronze or Stainless Steel construction
<b>Alarm.....</b>	Available for 36" bar only. Prefix "NALRM" before PART #
<b>Hand.....</b>	Non-handed
<b>Latch Bolt.....</b>	Stainless Steel 3/4" throw
<b>Spring.....</b>	Stainless Steel throughout
<b>ANSI Standard.....</b>	A156.3, Grade 1
<b>Rail Assembly.....</b>	Heavy gauge extruded aluminum body with Stainless Steel push pad
<b>Strike.....</b>	246 packed standard. Optional 247 strike. (See strike page)
<b>Dogging Feature.....</b>	Available for 36" bar only. Allen-type key furnished standard.
<b>Mullion.....</b>	Available
<b>UL and ULC Listed.....</b>	GLS9800 Series for Panic & Safety for all types of 4' x 8' single doors and 8' x 8' double doors. FGLS9800 Series for all types of 4' x 8' single doors for up to 3 hour fire labeled installations. Conforms to UL10C and UBC7-2-1997 codes.
<b>Finish.....</b>	Architectural plated finishes
<b>Electronic Functions.....</b>	(ELR) Electrical Latch Retraction and RX & LX Signal Switch available
<b>Anti-Microbial Coating.....</b>	Available on US32D only. Use part # ANTB-EXIT



**246 STRIKE**



**247 STRIKE (OPTIONAL)**

### DIMENSIONS

**Push Rail height to finished floor** 41" (1041 mm) at center

#### Push Rail projection

<b>Neutral</b>	2 3/4" (70 mm)
<b>Depressed</b>	1 7/8" (48 mm)

**Center case** 8 7/16" x 1 1/8" x 2" (205 mm x 29 mm x 51 mm)

MODEL	ACTUAL LENGTH	MAX CUT DOWN	DOOR SIZE
GLS9800EO36, FGLS9800EO36	34 17/32"	10"	30" to 36" width
GLS9800EO48, FGLS9800EO48	46 11/32"	12"	36" to 48" width

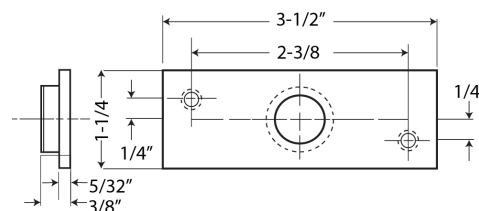
# GLSCVR9800 & FGLSCVR9800 Series

GRADE 1 Concealed Vertical Type, Narrow Stile Exit Device  
Optional Less Bottom Rod (LBR)

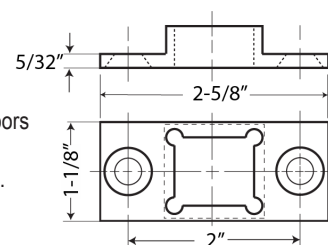


## Specifications

For Doors.....	Metal or Aluminum Glass doors with 1 3/4" minimum stile width, 1 3/4" thickness for single or double door application
Top Chassis.....	Non-ferrous Alloy (Panic Grade)
Cover.....	Non-ferrous plated material
Mounting.....	Furnished with wood and machine screws
End Cap.....	Brass, Bronze or Stainless Steel construction
Hand.....	Handed. Specify RHR or LHR
Top and Bottom Bolts.....	Stainless Steel. Top and bottom bolt travel 7/16" (11 mm) Stainless Steel adjustable to 1" (25 mm)
Spring.....	Stainless Steel throughout
ANSI Standard.....	A156.3, Grade 1
Rail Assembly.....	Heavy gauge extruded aluminum body with Stainless Steel push pad
Strike.....	260 Top and 265 Bottom strikes packed standard (See strike page)
Dogging Feature.....	Available for 36" bar only. Allen-type key furnished standard.
Mullion.....	Available
UL and ULC Listed.....	GLSCVR9800 Series for Panic & Safety for all types of 4' x 8' single doors and 8' x 8' double doors for Panic & Safety. FGLSCVR9800 Series for all types of 4' x 8' single doors for up to 3 hour fire labelled installations. Conforms to standards UL10C and UBC 7-2-1997 codes.
Finish.....	Architectural plated finishes
Electronic Functions.....	(ELR) Electrical Latch Retraction and RX & LX Signal Switch available
Anti-Microbial Coating.....	Available on US32D only. Use part # ANT-B-EXIT



260 TOP STRIKE



265 BOTTOM STRIKE

## DIMENSIONS

Push Rail height to finished floor	41" (1041 mm) at center
Push Rail projection	
Neutral	2 3/4" (70 mm)
Depressed	1 7/8" (48 mm)

Center case	8 1/16" x 1 1/8" x 2" (205 mm x 29 mm x 51 mm)
-------------	--

MODEL	ACTUAL LENGTH	MAX CUT DOWN	DOOR SIZE
GLSCVR983684, FGLSCVR983684	34 17/32"	6"	30" to 36" width
GLSCVR984884	46 11/32"	18"	30" to 48" width

# Trim Selection

## ESCUTCHEON LEVER DESIGN

### CONSTRUCTION

- Free-wheeling clutch mechanism.
- Grade 1, thru-bolted design. Reversible design
- Hardened steel heavy duty tailpiece.
- Available for rim and concealed vertical rod exit devices

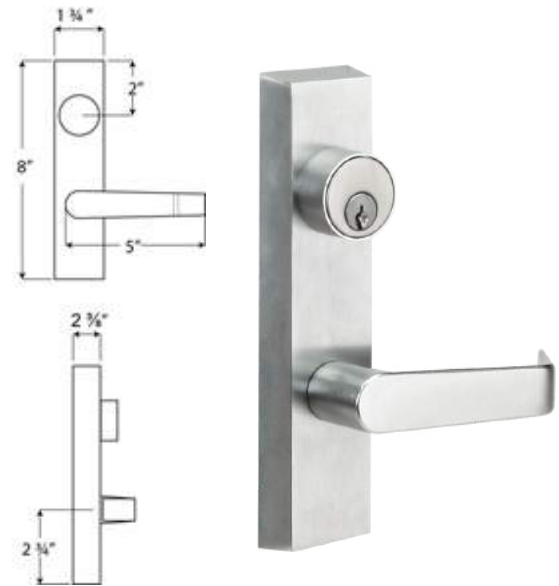
### DOOR THICKNESS

Standard 1  $\frac{3}{4}$ "

### ESCUTCHEON DIMENSIONS

1  $\frac{13}{16}$ " width X 8" length

Lever length: 5"



**GLSRIM9800**  
**GLSCVR9800**  
**⌘ ICGLSRIM9800**  
**⌘ ICSCGLSRIM9800**  
**⌘ ICGLSCVR9800**  
**⌘ ICSCGLSCVR9800**

### ENTRANCE

Clutch free-wheeling Entrance, key locks or unlocks escutcheon trim ANSI Function (08) Operates as classroom function  
**CVR** is used for Concealed Vertical Rod Exit Device  
**RIM** is used for Rim Type Exit Device

**IMPORTANT: GLS9800 and GLSCVR9800 Trims can be used with GLS7700 and GLSCVR7700 Exit Devices**

**GLSRIM9805**  
**GLSCVR9805**  
**⌘ ICGLSRIM9805**  
**⌘ ICSCGLSRIM9805**  
**⌘ ICGLSCVR9805**  
**⌘ ICSCGLSCVR9805**

### STOREROOM

Clutch free-wheeling Storeroom, key unlocks lever, lever retracts latch bolt, otherwise always locked.  
 ANSI Function (09)  
**CVR** is used for Concealed Vertical Rod Exit Device  
**RIM** is used for Rim Type Exit Device

### NOTES:

- AT, RL, TUB lever design is available upon request.
- **ELECTRIFICATION NOT AVAILABLE FOR TRIM**
- Electrical Latch Retraction (**ELR**), Request to Exit (**RX**) and Latchbolt Monitoring (**LX**) available for Exit Device only.
- Anti-Microbial Coating available in US26D Only. Use part # "**ANTB-TRIM**" when ordering.

**GLSRIM9830**  
**GLSCVR9830**

### PASSAGE

Trim always operable and free  
 ANSI Function (14)  
**CVR** is used for Concealed Vertical Rod Exit Device  
**RIM** is used for Rim Type Exit Device

**GLSRIM9840**  
**GLSCVR9840**

### DUMMY

Dummy Escutcheon trim ANSI Function (02)  
**CVR** is used for Concealed Vertical Rod Exit Device  
**RIM** is used for Rim Type Exit Device

**KEYWAY:** 6-Pin solid brass "C" keyway Rim Cylinder standard. Optional: Schlage E, Schlage C-K, Russwin D1-2-3-4, Corbin 59/60, Sargent LA-LB-LC, Falcon/Weiser E, Arrow A, Yale 8, Yale GA and Kwikset. Can also accept Medeco, Assa, Kaba and **Cal-Royal HSK** High Secity Cylinders.

**⌘ (IC) INTERCHANGEABLE CORE:** Interchangeable Core locks will accept compatible 6 or 7-Pin cores with BEST, FALCON and ARROW

**⌘ (ICSC) INTERCHANGEABLE CORE:** Indicates function available with **Schlage Full Size Format** Interchangeable Core. Corbin, Sargent and Yale format also available.

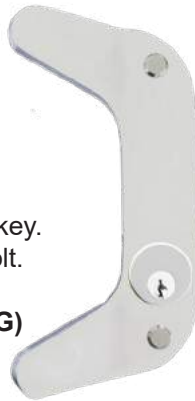
# Trim Selection

## PULL DESIGN - FOR GLS9800 RIM EXIT DEVICE ONLY



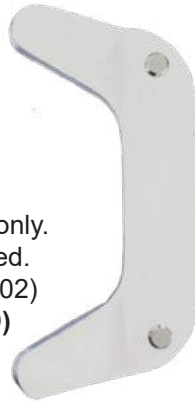
### 98GLSNL ⚙️ IC98GLSNL ⚙️ ICSC98GLSNL

Outside by pull and key.  
Key retracts latch bolt.  
ANSI Function (03)  
**(SPECIFY HANDING)**



### 98GLSUP

Outside by pull only.  
Pull when dogged.  
ANSI Function (02)  
**(NON-HANDED)**



### GLSRIMEOP

Outside cover plate  
only.  
**ANSI Function (01)**

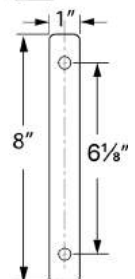
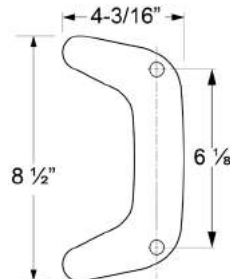
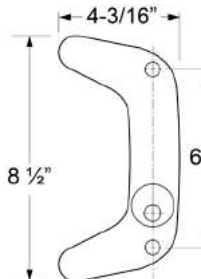


#### KEYWAY

Standard 6-Pin solid brass "C"  
keyway Rim Cylinder included.

#### FINISHES

Architectural plated finishes.



**IMPORTANT: GLS9800 and GLSCVR9800 Trims can be used with GLS7700 & GLSCVR7700 Exit Devices**



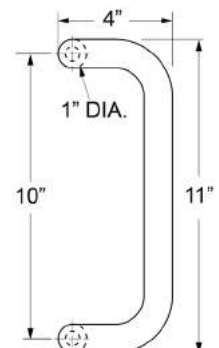
### 98GLSCYL-1



### ⚙️ IC98GLSCYL-1 ⚙️ ICSC98GLSCYL-1



### OFSTPUL-10 (REVERSIBLE)



**KEYWAY:** 6-Pin solid brass "C" keyway Rim Cylinder standard. Optional: Schlage E, Schlage C-K, Russwin D1-2-3-4, Corbin 59/60, Sargent LA-LB-LC, Falcon/Weiser E, Arrow A, Yale 8, Yale GA and Kwikset. Can also accept Medeco, Assa, Kaba and **Cal-Royal HSK** High Security Cylinders.

⚙️ **(IC) INTERCHANGEABLE CORE:** Interchangeable Core locks will accept compatible 6 or 7-Pin cores with BEST, FALCON and ARROW

⚙️ **(ICSC) INTERCHANGEABLE CORE:** Indicates function available with **Schlage Full Size Format** Interchangeable Core. Corbin, Sargent and Yale format also available.



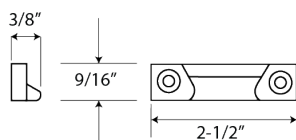
# Strikes & Accessories

## Strikes for use with A9860V Vertical Rod Exit Device

All strikes are black nylon coated

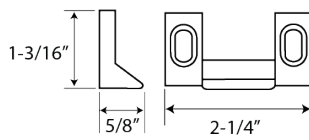
### 221

Standard for A9860V. Applied to surface of floor or to a flat threshold. Standard packaging.



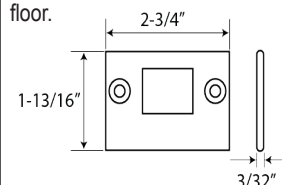
### 227

Applied to surface of stop. No mortise required. Standard packaging.



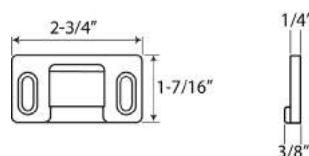
### 233

Bottom stike. Alternate bottom strike. Flush mounting, stainless steel. Furnished with expansion shields. Requires mortise on the floor.



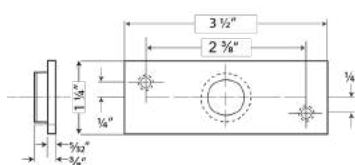
### RIM238

Strike for 2 3/8" Backset Application

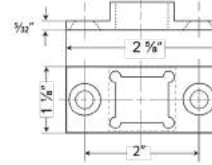


## Strikes for FMCVR9800, MCVR9800, WCVR9800, FWCVR9800, GLSCVR9800 Fire and Non-Fire Exit Devices

### 260 TOP STRIKE



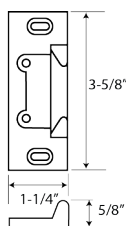
### 265 BOTTOM STRIKE



## Strikes for use with AF9860V Vertical Rod Fire Exit Device

### 245

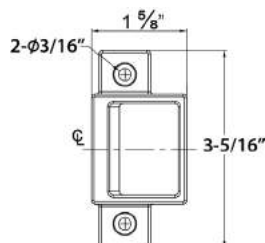
For AF9860V surface applied. Standard packaging.



## Strikes for use with GLS9800 Narrow Stile Exit Device

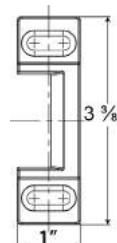
### 246

Used on frames with blade stop or integral stop. Surfaced applied or mortised. Standard packaging.



### 247

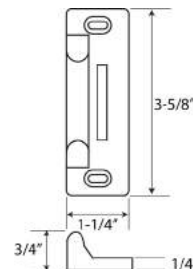
Applied to surface of stop. No mortise required.



## Strikes for use with A9800 Rim Type Exit Device

### 239

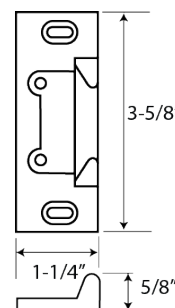
For A9800 surface applied. Standard packaging.



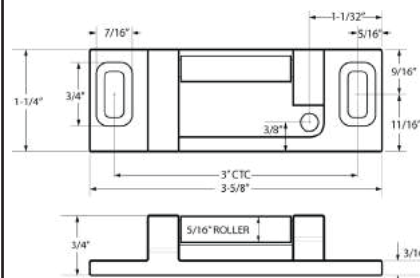
## Strike for use with AF9800 Rim Type Fire Exit Device

### 245

For AF9800 surface applied. Standard packaging.



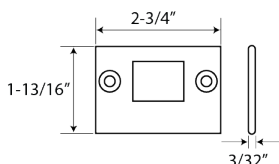
## ADA Roller Strike for A9800, AF9800, A9860V, and AF9860V Fire and Non-Fire Exit Devices



945 (NON-FIRE RATED)  
945F (FIRE RATED)

### 233

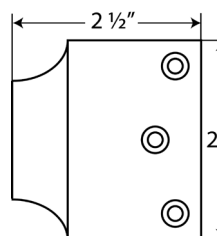
Bottom strike for AF9860V. Flush mounting stainless steel. Furnished with expansion shields. Requires mortise in the floor. Standard packaging



## Overlapping Strikes

### N251

Surface applied. Used on inactive leaf for device on active leaf of pair of doors without mullion.



# Accessories



LFF	
Lock front filler	
SF	
Strike filler	
GLASS BEAD SHIM KITS	
<p><b>801</b> – For rim type, 1/8" thick</p> <p><b>806</b> – For vertical type, 1/8" thick</p> <p><b>812</b> – For fire rated type, 1/8" thick</p>	
CYLINDER DOGGING KITS	
<p><b>TO ORDER:</b> Prefix "CD" before PART #. Available for all 9800 Series devices except fire exit hardware. Cylinder dogging with mortise cylinder is located on the mounting insert lock bolt in retracted position.</p> <p><b>KIT ONLY:</b> Use PART # 36CD9800 for 36" and 48CD9800 for 48" devices. Specify finish.</p> <p><b>NOTE:</b> Use PART # 48CD9800 for 36" GLS Narrow Stile Rim and CVR Non-Fire Exit Devices.</p>	<p><b>CYLINDER DOGGING KIT</b></p> <p>● <b>(IC) INTERCHANGEABLE CORE:</b> Interchangeable Core locks will accept compatible 6 or 7-Pin cores with BEST, FALCON and ARROW</p> <p>● <b>(ICSC) INTERCHANGEABLE CORE:</b> Indicates function available with Schlage Full Size Format Interchangeable Core. Corbin, Sargent and Yale format also available.</p>

# Fire Exit Hardware Selector



FIRE EXIT HARDWARE RATING			UL DOOR RATING
APPLICATION	MODEL #	MAXIMUM DOOR OPENING	(A) 3 HOUR
<b>SINGLE DOORS</b> Rim type	AF9800EO36 AF9820EO48	4'0" X 8'0"	✓
<b>PAIRS OF DOORS</b> Two surface mounted standard vertical rod type or less bottom rod (LBR) application. Prefix <b>LBR</b> before Part #  a) Swinging in same direction b) Swinging in opposite direction (double egress)	AF9860V3684 X AF9860V3684	8'0" X 7'2"	✓
	AF9890V3696 X AF9890V3696 AF9880V4896 X AF9880V4896	8'0" X 8'0"	✓
<b>PAIRS OF DOORS</b> Two rim type with Mullion	AF9800EO36 AF9820EO48	8'0" X 8'0"	✓

All fire rated exit devices in all applications, are also labeled for (B) 1 ½ hour, (C) ¾ hour, (D) 1 hour, (E) ¾ hour.  
All fire exit hardware meet UL10C and UBC 7-2-1997 codes.

## HOW TO ORDER INFORMATION

### Exit device model number

#### Panic grade

A9800 EO36 Rim type 36" door  
A9820 EO48 Rim type 48" door  
A9860 V3684 Vertical rod type 36" x 84"  
A9890 V3696 Vertical rod type 36" x 96"  
A9880 V4896 Vertical rod type 48" x 96"  
VRRD10 – Rod for 10' non-rated door  
A9850 V36120 Vertical rod type 36" x 120"  
A9840 V48120 Vertical rod type 48" x 120"

#### Fire grade

AF9800 EO36 Rim type 36" door  
AF9820 EO48 Rim type 48" door  
AF9860 V3684 Vertical rod type 36" x 84"  
AF9890 V3696 Vertical rod type 36" x 96"  
AF9880 V4896 Vertical rod type 48" x 96"  
AF9850 V36120 Vertical rod type 36" x 120"  
AF9840 V48120 Vertical rod type 48" x 120"

- 1) Specify exit device model number according to size of door.
- 2) Specify trim selection. For interchangeable core prefix "IC" before Part #. See trim selection pages.
- 3) For vertical rod devices specify LHR (Left Hand Reverse) or RHR (Right Hand Reverse) for convenience easily field reversible, otherwise shipped as LHR.
- 4) Specify finish:US10B, US32D
- 5) On thru-bolt applications, fire rated vertical rod devices are packed with thru-bolts as standard feature. Thru-bolts are also available for other devices. To order thru-bolts add "SBN" to trim pack.

When ordering separately use following Part #

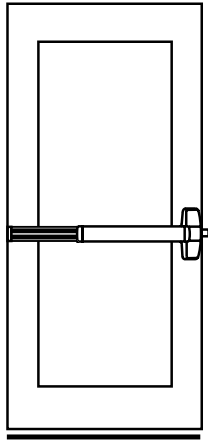
Cal-Royal Part # 357 — Thru-bolts for rim devices, 6 pcs / pack.  
Cal-Royal Part # 369 — Thru-bolts for vertical rod devices, 14 pcs / pack.  
Cal-Royal Part # 363 — Thru-bolts for rim devices, 6 pcs / pack for 2 ¼" thick doors.  
Cal-Royal Part # 375 — Thru-bolts for vertical rod devices, 14 pcs / pack for 2 ¼" thick doors.

**Ordering example:** A9800EO36 ALUM X SBN X ENT00L 26D  
AF9880V4896 10B X ICSTR05L 10B

# 9800 Series Fire and Non-Fire Exit Devices ANSI A156.3 Grade 1 Selector Chart

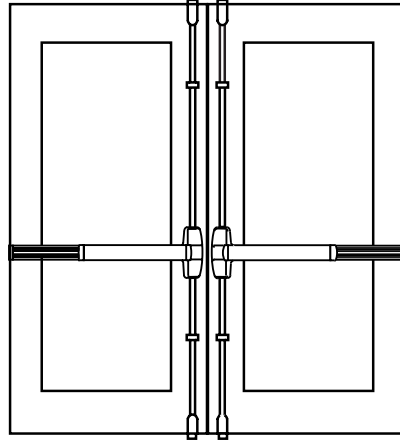


**SINGLE DOOR**



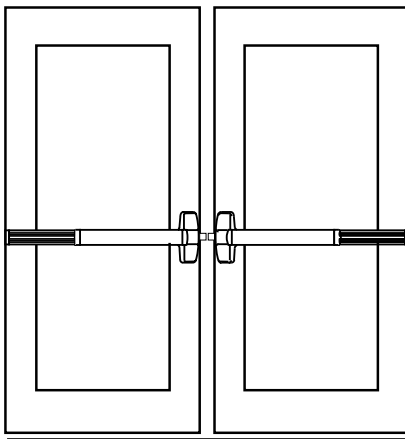
**Vertical rod type or Rim type** Surface applied 2 point lock, Surface application.

**PAIR OF DOORS WITHOUT MULLION**



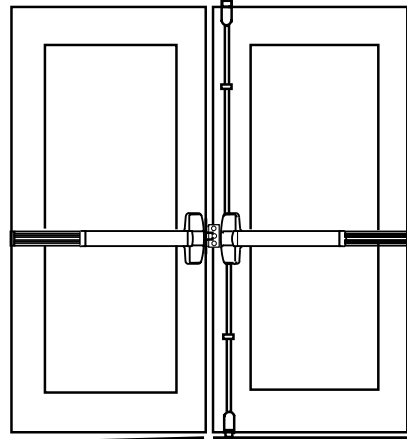
**2 Vertical rod type** Surface applied 2 point locking both doors. Each door active same direction. Do not use with overlapping astragal.

**PAIR OF DOORS WITH MULLION**



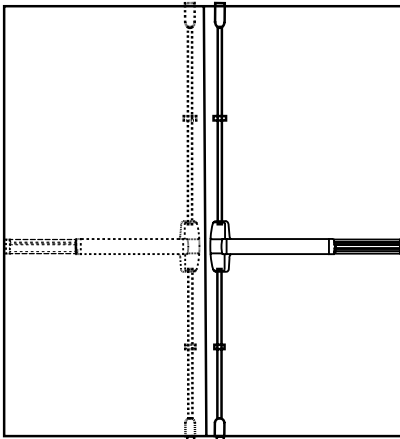
**2 Rim type with mullion** Two independent active doors with full double door openings when required. Same direction.

**PAIR OF DOORS WITHOUT MULLION**



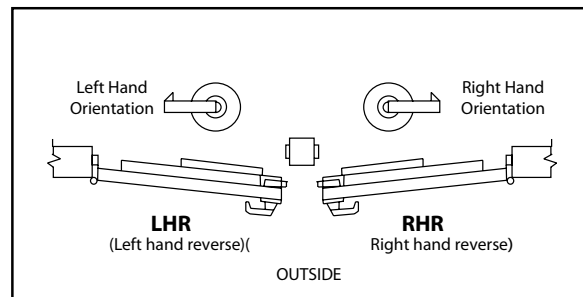
**1 Vertical rod and 1 rim type** Both devices are surface applied. A coordinator and overlapping strike is recommended.

**PAIR OF DOORS WITHOUT MULLION**



**2 Vertical rod type** Double egress surface applied. 2 point locking both doors opposite directions.

**HANDING**



**CAL-ROYAL PRODUCTS, INC.**

6605 FLOTILLA ST., COMMERCE, CA 90040 U.S.A.

TEL: (323) 888-6601 FAX: (323) 888-6699

Website: [cal-royal.com](http://cal-royal.com) \* Email: [sales@cal-royal.com](mailto:sales@cal-royal.com)



# Exit Devices Comparison Chart



RIM EXIT DEVICE CONVERSIONS	RIM	VERTICAL ROD	RIM	VERTICAL ROD	CONCEALED VERTICAL ROD	MORTISE RIM	NARROW STILE RIM	NARROW STILE CVR
ARROW	S1200	S1100	S3800 / 1800	S3700	S3600	S3900	S4803	S4601
CAL-ROYAL	6600 / A9800 / A7700	6660V / A9860V / A7760V	A2200 / 4400	A2260V	CVR6600 / MCVR9800 / WCVR9800 / MCVR7700 / WCVR7700	MR6600 / MR9800 / MR7700	GLS6600 / GLS9800 / GLS7700	GLSCVR6600 / GLSCVR9800 / GLSCVR7700
CORBIN/RUSSWIN	ED8200	ED8400	ED5400 / ED6000	ED4750	ED5800	ED5600	ED4200	ED4800
DETEX	V4000	---	10	20	70	30	V40NS	60
DORMA	8300	8400	9300	9400	9100	9500	AD4300	AD4100
PRECISION	5100	5200	2100 / 100	9800 / 200	2800	2300	2400	2600
SARGENT	2828	2727	8800 / 9898	8700	MD8600 / WD8600	8900	AD8500	AD8410
VON DUPRIN	98 / 99	9827 / 9927	98	9827	9947EO	9975EO	33A	3348
YALE	2100	2110	7100 / 1500	7110 / 1510	7120	7130	7250	7220



## 6600 & F6600 Rim Type Panic And Fire Exit Devices

## 6660V & F6660V Vertical Rod Panic And Fire Exit Devices

### ANSI A156.3, Grade 1



### Features & Construction

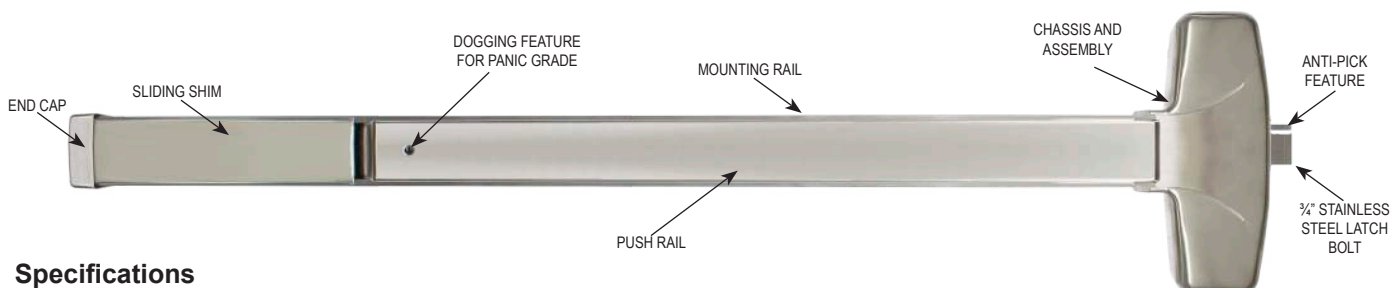
- ◆ for use in Institutions, Schools, Universities, Commercial Buildings where heavy duty reliable operation is a requirement
- ◆ ANSI A156.3, Grade 1 Heavy Duty Exit Device in Surface Vertical Rod and Rim designs
- ◆ Rail assemblies are heavy duty extruded steel or stainless steel S304 body with steel or stainless steel S304 push pad and end caps. Rail travels in direction of the door swing
- ◆ Trims are thru-bolted for additional security
- ◆ UL Listed for Panic and ULC10C, UBC 7-2-1997 codes
- ◆ UL Listed for Fire Exit Hardware. 3 hours
- ◆ (A) label rating on pairs of doors up to 8'0" x 8'0" swinging in same or opposite directions
- ◆ Uncompromising security and safety in single and double fire exit doors
- ◆ Chassis mounted unit construction. Rim and Vertical Rod Devices are non-handed and easily reversible
- ◆ Available in many different functions. Lever and escutcheon trims are Grade 1 construction with clutch on rose trims and covers 161 cut-out. Escutcheon trims comes in standard and heavy duty construction. Grade 2 levers are also available with clutch and rigid on rose trims, as well as different pulls, thumbpiece trims and night latches.

### Suggested Architect's Specifications

- ◆ All Exit Devices shall be of touch bar design with smooth operation and be operative over  $\frac{2}{3}$  of the door's clear opening width
- ◆ All Exit Devices must be listed under "Panic Hardware" in the Accident Equipment List of Underwriters' Laboratories, Inc. where labeled doors are used as exits, they must be equipped with labeled Fire Exit Hardware and UL10C, UBC 7-2-1997 codes
- ◆ All Springs shall be of Stainless Steel throughout
- ◆ All Exit Devices shall be of chassis mounted unit construction
- ◆ All Exit Devices shall be ANSI A156.3, Grade 1

# 6600 & F6600 Series

## GRADE 1 Rim Type Exit Device



### Specifications

For Doors.....	1 3/4" thick Standard. Optional 2 1/4" thick. 4 1/2" minimum Stile Width for single or double door application using standard 938 strike and pull lever, thumbpiece and escutcheon trims.
Chassis.....	Steel material for Panic and Fire Grade.
Cover.....	Zinc or Stainless Steel S304 material. Covers stock hollow metal doors with 161 cut out
Mounting.....	Furnished with wood and machine screws. Available thru-bolts on request. <b>(5) Thru-Bolts are included and standard packaging on fire rated devices</b>
End Cap.....	Steel or Stainless Steel S304 construction
End Bracket.....	Steel material
Hand.....	Non-Handed
Latch Bolt.....	Stainless Steel S304, 3/4" throw with anti-pick feature
Spring.....	Stainless Steel S304 material
ANSI Standard.....	A156.3, Grade 1
Rail Assembly.....	Heavy Gauge Extruded Steel body with Steel or Stainless Steel S304 push pad
Strike.....	938 packed standard (See strike page)
Dogging Feature.....	Allen-Type key furnished standard on non-fire labeled devices
Mullion.....	Available
UL and ULC Listed.....	6600 Series for Panic. F6600 Series for Fire Exit hardware for all types of 4' x 8' single doors and 8' x 8' double doors for up to 3 hour fire labeled installations. Conforms to standards UL10C and UBC 7-2-1997 codes
Finish.....	Architectural plated finishes
Anti-Microbial Coating.....	Available on US32D only. Use part # <b>ANTB-EXIT</b>

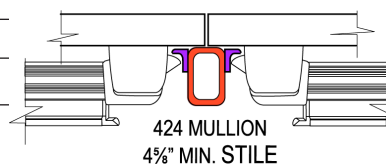
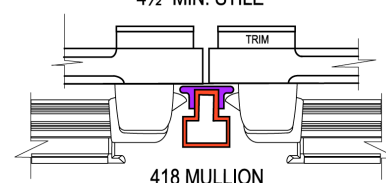
### DIMENSIONS

Touchbar height to finished floor	41" (1041 mm) at center			
Touchbar projection				
Neutral	2 5⁄8" (67 mm)			
Depressed	1 7⁄8" (48 mm)			
Center case	8 1⁄16" x 2 3⁄4" x 2 1⁄2" (205 mm x 70 mm x 63 mm)			
MODEL	ACTUAL LENGTH	MAX CUT DOWN	DOOR SIZE	PUSH BAR LENGTH
6600EO36 and F6600EO36	32"	6"	30" to 36" door width	21"
6620EO48 and F6620EO48	44"	12"	36" to 48" door width	26 1⁄2"

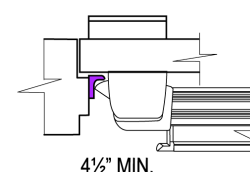
### 4 1/2" Minimum Stile Requirements

#### DOUBLE DOOR

4 1/2" MIN. STILE



#### SINGLE DOOR



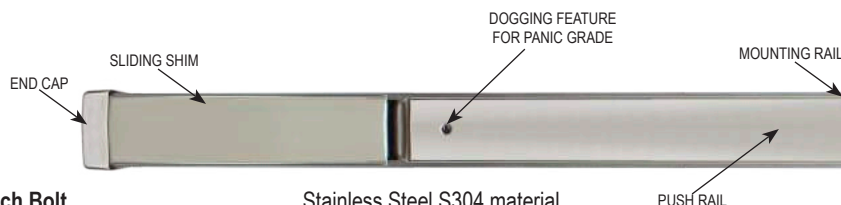
# 6660V & F6660V Series

## GRADE 1 Vertical Rod Type Exit Device



### Specifications

For Doors.....	1 3/4" thick Standard. Optional 2 1/4" thick. 3 3/4" minimum Stile Width required for single door application. 3 1/2" minimum Stile Width required for double door application. Lever, thumb piece and escutcheon trims available.
Top & Bottom Chassis.....	Steel material for Panic and Fire Grade.
Cover.....	Aluminum, Zinc or Stainless Steel S304 material. Covers stock hollow metal doors with 161 cut out.
Mounting.....	Furnished with wood and machine screws. <b>(9) Thru-Bolts are included and standard packaging on fire rated devices.</b>
End Cap.....	Steel or Stainless Steel S304 construction
End Bracket.....	Steel material
Hand.....	Handed. Easily field reversible. Specify at time of order LHR, RHR for convenience



Latch Bolt.....	Stainless Steel S304 material
Rod Guide.....	Steel or Stainless Steel S304
ANSI Standard.....	A156.3, Grade 1
Rail Assembly.....	Heavy gauge extruded Steel or Stainless Steel S304 body and push pad
Strike.....	Top Strike, Bottom Strike, Optional Handicap Bottom Strike (See strike page)
Dogging Feature.....	Allen-type key furnished standard on non-fire labeled devices
UL and ULC Listed.....	6660V Series for panic. F6660V Series for fire exit hardware for all types of <b>8' x 8' double doors</b> for up to 3 hour fire labeled installations. Conforms to standards UL10C and UBC 7-2-1997 codes
Finish.....	Architectural plated finishes
Anti-Microbial Coating.....	Available on US32D only. Use part # <b>ANTB-EXIT</b>

### DIMENSIONS

Touch bar height to finished floor	41" (1041 mm) at center			
Touch bar projection				
Neutral	2 5⁄8" (67 mm)			
Depressed	1 7⁄8" (48 mm)			
Center case	8 1⁄16" x 2 3⁄4" x 2 1⁄2" (205 mm x 68 mm x 62 mm)			
Panic grade top & bottom latch case	4" x 2" x 1 3⁄4" (102 mm x 51 mm x 44 mm)			
Fire grade top & bottom latch case	4" x 2" x 1 3⁄4" (102 mm x 51 mm x 44 mm)			
Top and bottom rod length for 36" x 84" doors	Top rod 37 1⁄2" (953 mm), bottom rod 33 1⁄2" (851 mm)			
Top and bottom rod length for 48" x 96" doors	Top rod 37 1⁄2" + 12" ETR (1257 mm), bottom rod 33 1⁄2" (851 mm)			
Vertical Rods	15⁄32" (11.9 mm) round tubing			
MODEL	ACTUAL SIZE	MAX CUT DOWN	DOOR SIZE	PUSH BAR LENGTH
6660V3684, F6660V3684	32"	6"	30" to 36" door width	21"
6680V4896, F6680V4896	44"	12"	38" to 48" door width	26 1⁄2"



### MINIMUM STILE REQUIREMENTS

Double Door with Two Vertical Rod Type Exit Devices





# LBR6660V & LBRF6660V Series

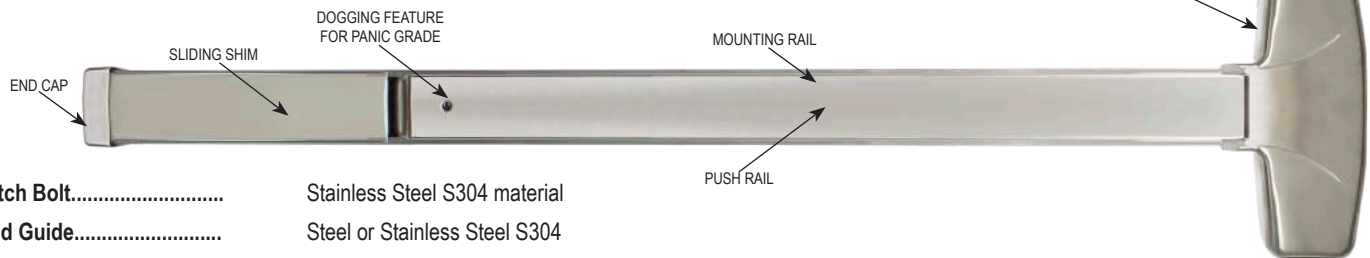


## GRADE 1 Vertical Rod Exit Device Less Bottom Rod (LBR)

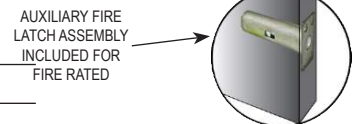


### Specifications

For Doors.....	1 3/4" thick Standard. Optional 2 1/4" thick. 3 3/4" minimum Stile Width required for single door application. 3 1/2" minimum Stile Width required for double door application. Lever, thumb piece and escutcheon trims available.
Top Chassis.....	Steel material for Panic and Fire Grade.
Cover.....	Aluminum, Zinc or Stainless Steel S304 material. Covers stock hollow metal doors with 161 cut out.
Mounting.....	Furnished with wood and machine screws. <b>(7) Thru-Bolts are included and standard packaging on fire rated devices.</b>
End Cap.....	Steel or Stainless Steel S304 construction
End Bracket.....	Steel material
Hand.....	Handed. Easily field reversible. Specify at time of order LHR, RHR for convenience



Latch Bolt.....	Stainless Steel S304 material
Rod Guide.....	Steel or Stainless Steel S304
ANSI Standard.....	A156.3, Grade 1
Rail Assembly.....	Heavy gauge extruded Steel or Stainless Steel S304 body and push pad
Strike.....	Top Strike (See strike page)
Auxiliary Fire Latch.....	Stainless Steel S304 material. <b>Strike hole plug is included in the standard packaging (for fire rated devices only).</b>
Head Cover Plug.....	ABS Plastic construction
Dogging Feature.....	Allen-type key furnished standard on non-fire labeled devices
UL and ULC Listed.....	6660V Series for panic for up to 8' x 10' double doors. F6660V Series for fire exit hardware for all types of <b>8' x 8' double doors</b> for up to 3 hour fire labeled installations. Conforms to standards UL10C and UBC 7-2-1997 codes
Finish.....	Architectural plated finishes
Anti-Microbial Coating.....	Available on US32D only. Use part # <b>ANTB-EXIT</b>



### DIMENSIONS

Touch bar height to finished floor	41" (1041 mm) at center
Touch bar projection	
Neutral	2 5/8" (67 mm)
Depressed	1 7/8" (48 mm)
Center case	8 1/16" x 2 3/4" x 2 1/2" (205 mm x 68 mm x 62 mm)
Panic grade top latch case	4" x 2" x 1 3/4" (102 mm x 51 mm x 44 mm)
Fire grade top latch case	4" x 2" x 1 3/4" (102 mm x 51 mm x 44 mm)
Top rod length for 36" x 84" doors	Top rod 37 1/2" (953 mm), bottom rod 33 1/2" (851 mm)
Top rod length for 48" x 96" doors	Top rod 37 1/2" + 12" ETR (125 7 mm), bottom rod 33 1/2" (851 mm)
Vertical Rods	15/32" (11.9 mm) round tubing

### MINIMUM STILE REQUIREMENTS



MODEL	ACTUAL SIZE	MAX CUT DOWN	DOOR SIZE	PUSH BAR LENGTH
LBR6660V3684, LBRF6660V3684	32"	6"	30" to 36" door width	21"
LBR6680V4896, LBRF6680V4896	44"	12"	38" to 48" door width	26 1/2"

# Alarm Exit Hardware



PANIC GRADE	FIRE GRADE
NALRM660036 - Alarm Rim Type 36" Door	FNALRM660036 - Alarm Rim Type 36" Door
NALRM662048 - Alarm Rim Type 48" Door	FNALRM662048 - Alarm Rim Type 48" Door

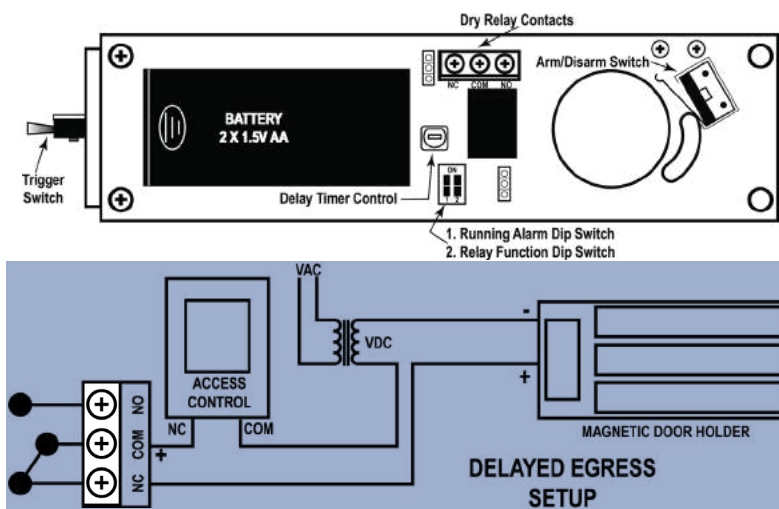
## FEATURES

- Alarm unit has an internal horn. When the push rail is depressed, the horn sounds to provide an audible means of signaling that the door has been opened and breached.
- The alarm will sound continuously for 150 seconds or until disarmed. A running alarm mode can be set to sound a 6-second beep every 6 seconds after the initial 150 seconds expires. Running alarm will sound until the unit is disarmed or until battery runs out of power.
- Alarm sound frequency is 120 db
- The key switch to turn alarm off is a standard 1 1/4" cylinder with "C" keyway. The alarm operates on two standard 1.5-volt AA battery.
- Unit includes a decal for application on door or unit: **"EMERGENCY EXIT ONLY ALARM WILL SOUND"**
- FIRE ALARM** - a built-in heat sensor will sound a continuous 0.3 sec interval beeping sound when surrounding temperature reaches 122°F ± 7.2°F, until it is disarmed or the temperature goes down to 113°F or below.
- LOW BATTERY ALARM** - When battery voltage drops to 2.4VDC ± 0.1VDC a 0.3 sec beep every 3 seconds will sound.



**FOR OTHER TYPES, PREFIX "NALRM" BEFORE PART#**

**RELAY SWITCHING FUNCTION** - A relay switching function and dry relay contact, together with a programmable built-in timer can be utilized to set up a delayed egress application when used with a *magnetic door holder*.\*



\*Magnetic Door Holder not included, must purchase from 3rd party

## Cylinder Dogging Kit

**TO ORDER:** Prefix "CD" before PART #. Available for all 6600 Series devices except fire exit hardware.  
**To order KIT ONLY:** use PART # 36CD6600 for 36" and 48CD6600 for 48" devices. Specify finish.

## Finishes (Refer to Price List for Stock Finishes)

Cal-Royal	Description	BHMA	US Finish	Material
DURO	Duronodic	313	710	Bronze
ALUM	Aluminum	628	US28	Aluminum
US32D	Satin Stainless	630	US32D	Stainless Steel

⚙️ (IC) INTERCHANGEABLE CORE locks will accept compatible 6 or 7-Pin cores with **BEST, FALCON and ARROW**.

⚙️ (ICSC) INTERCHANGEABLE CORE available with **Schlage Full Size Format**. Corbin, Sargent and Yale format also available.

# Trim Selection

## CLUTCH CYLINDRICAL LEVER

Non-Handed Grade 1 (Clutch Style)

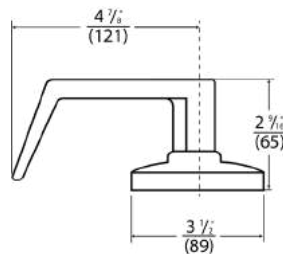
Cylindrical body hardened steel heavy duty tailpiece. For 1 3/4" and 2 1/4" doors.  
Prefix "THI" before Part # for 2 1/4" door thickness.

Available for fire and non-fire rated rim and vertical rod exit devices.

Rose diameter 3 1/2", lever length 4 3/4". Fits and covers 161 cutout.

Finishes: US26D, US26, US3, US4, US10B, US10BE, US1

**\*GN DESIGN ONLY: ENT00L, ICENT00L, STR05L, ICSTR05L, PAS30L, DUM40L IN US32D FINISH, ALL STAINLESS STEEL EXTERIOR. INCLUDES GRADE 304SS LEVER AND ROSE**



**ENT00L or**  
**ICENT00L or**  
**ICSCENT00L4**  
**SARICENT00L** (Sargent)  
**RUSICENT00L** (Corbin / Russwin)  
**YALICENT00L** (Yale)

**STR05L or**  
**ICSTR05L or**  
**ICSCSTR05L4**  
**SARICSTR05L** (Sargent)  
**RUSICSTR05L** (Corbin / Russwin)  
**YALICSTR05L** (Yale)

**PAS30L**

**DUM40L**

### ENTRANCE

Key locks and unlocks lever.  
Operates as CLASSROOM  
FUNCTION.  
ANSI Function (08)

### STOREROOM

Key operates lever,  
otherwise always locked.  
ANSI Function (09)

### PASSAGE

Trim always operable and free.  
ANSI Function (14)

### DUMMY

Dummy trim. One sided  
ANSI Function (02)

**KEYWAY:** 6-Pin solid brass "C" keyway standard. Optional: Schlage E, Schlage C-K, Russwin D1-2-3-4, Corbin 59/60, Sargent LA-LB-LC, Falcon/Weiser E, Arrow A, Yale 8, Yale GA and Kwikset. Can also accept Medeco, Assa, Kaba and **Cal-Royal HSK** High Security Cylinders.

**(IC) INTERCHANGEABLE CORE:** Interchangeable Core locks will accept compatible 6 or 7-Pin cores with **BEST, FALCON and ARROW**.

**(ICSC) INTERCHANGEABLE CORE:** Indicates function available with **SCHLAGE, CORBIN/RUSSWIN, SARGENT and YALE Full Size Format** Interchangeable Core

KEYWAY	DESIGN	FUNCTION	FINISH
BEST, FALCON, & ARROW - SCHLAGE - CORBIN/RUSSWIN - SARGENT - YALE -	<div style="border: 1px solid black; padding: 2px;">           IC ICSC RUSIC SARIC YALIC         </div>	<div style="border: 1px solid black; padding: 2px;">           AT SPA TUB* AUG DAN LON TAC         </div>	<div style="border: 1px solid black; padding: 2px;">           ENT00L STR05L PAS30L DUM40L         </div>

**HOW TO ORDER IN LFIC**

Example: ICSCENT00L4 US26D  
in "SPA" design is  
ICSCSPAENT00L4 US26D

\*\*Note: Yale LFIC is only available in GN, AT, SPA lever designs | TUB\* is only available in SFIC.

## Other Lever Trim Designs

**Available in  
SFIC & LFIC**



**Available in  
SFIC & LFIC**



**Available  
in SFIC**



**Available in  
SFIC & LFIC**  
\*except YALE LFIC



**Available in  
SFIC & LFIC**  
\*except YALE LFIC



**Available in  
SFIC & LFIC**  
\*except YALE LFIC



**Available in  
SFIC & LFIC**  
\*except YALE LFIC



Anti-Microbial Coating available in US26D or US32D  
Only. Use part # "ANTB-TRIM" when ordering.

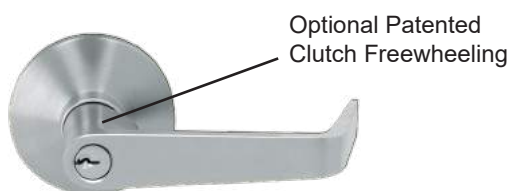
# Trim Selection



## LEVER DESIGN

### Non-Handed (Optional Clutch)

Tubular body hardened steel heavy duty tailpiece.  
For 1 3/4" doors. Available for fire and non-fire rated  
rim and vertical rod exit devices. Rose diameter 3 1/2",  
lever length 4 3/4". Fits and covers 161 cutout.  
Finishes: US26D, 10B, 3

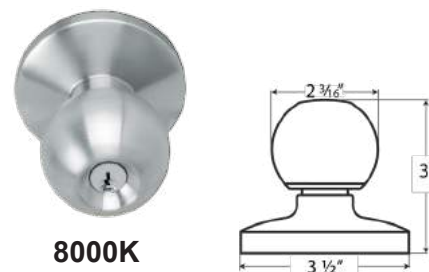


<b>8000L</b>	<b>ENTRANCE</b> Key locks and unlocks lever. Operates as classroom function. ANSI Function (08)
<b>CLU5000L</b>	<b>CLUTCH FREE WHEELING (ENTRANCE)</b> Key locks and unlocks lever. Operates as classroom function. ANSI Function (08)
<b>8000S</b>	<b>STOREROOM</b> Key retracts latchbolt, otherwise always locked. ANSI Function (09)
<b>8000PAS</b>	<b>PASSAGE</b> Lever always operable and free. ANSI Function (14)
<b>8000DUM</b>	<b>DUMMY</b> Dummy trim. One sided. ANSI Function (02)

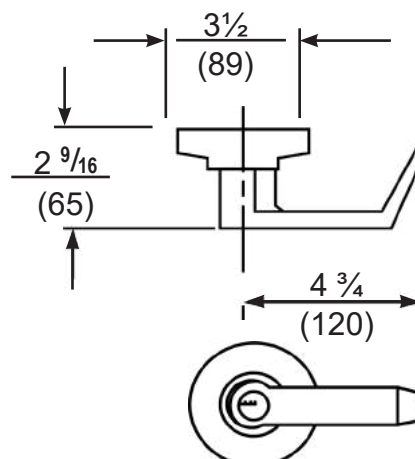
## KNOB DESIGN

### Non-Handed

Tubular body hardened steel heavy duty tailpiece.  
For 1 3/4" doors. Available for fire and non-fire rated  
rim and vertical rod exit devices. Rose diameter 3 1/2".  
Fits and covers 161 cutout. Finishes: US32D, 10B, 3



<b>8000K</b>	<b>ENTRANCE</b> Key locks and unlocks lever. Operates as classroom function. ANSI Function (08)
<b>8000KSTR</b>	<b>STOREROOM</b> Key retracts latchbolt, otherwise always locked. ANSI Function (09)



**KEYWAY:** 6-Pin solid brass "C" keyway standard. Optional: Schlage E, Schlage C-K, Russwin D1-2-3-4, Corbin 59/60, Sargent LA-LB-LC, Falcon/Weiser E, Arrow A, Yale 8, Yale GA and Kwikset. Can also accept Medeco, Assa, Kaba and **Cal-Royal HSK** High Security Cylinders.

## PULL DESIGN

### **FOR RIM DEVICES ONLY**

Outside by pull and key.  
Key retracts latchbolt.  
ANSI Function (03)  
Covers 161 cutout.

### **FINISHES**

Powder Coated Aluminum (ALUM)

**5000NL**



**5000DTP**



Outside by pull only.  
Pull when dogged.  
ANSI Function (02)  
Covers 161 cutout.

**5000EOP**



Outside by plate only.  
ANSI Function (01)  
Covers 161 cutout.



# Trim Selection

## CLUTCH LEVER ESCUTCHEON

### CONSTRUCTION

- Non-Ferrous Alloy Material
- Clutch Mechanism
- Double Heavy Duty Spring Support to prevent sagging and enhance operation
- Grade 1, Thru-Bolted design. Non-Handed design.
- Easily field reversible
- Hardened Steel Heavy Duty Spindle.
- Available for Fire and Non-Fire Rated Rim and Vertical Rod Exit Devices
- Standard 6-Pin Schlage "C" Mortise Cylinder included

### DOOR THICKNESS

Standard 1 3/4" to 2". For 2 1/4" thick door use additional **Part # TAIL3**

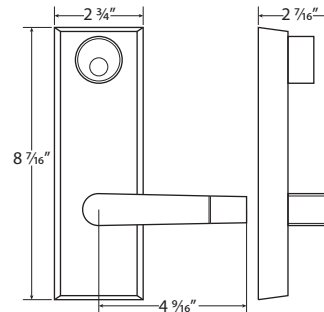
### ESCUTCHEON DIMENSIONS



2 3/4" width x 8 7/16" length. Lever length: 4 9/16".

Fits and covers 2 1/8" 161 cutout

**TO ORDER** other lever design  
insert "RL" or "TUB" before "ESC":



e.g. **RLESC6600** for ESC6600 with RL design  
or **TUBESC6600** for ESC6600 with TUB design



**ESC6600**  
 **ICESC6600**  
 **ICSCESC6600**

### ENTRANCE

Clutch Entrance, key locks or unlocks escutcheon trim  
ANSI Function (08) Operates as classroom function

**ESC6605**  
 **ICESC6605**  
 **ICSCESC6605**

### STOREROOM

Clutch Storeroom, key unlocks lever, lever retracts latch bolt, otherwise always locked. ANSI Function (09)

**ESC6630**

### PASSAGE

Trim always operable and free. ANSI Function (14)

**ESC6640**

### DUMMY

Dummy Escutcheon trim ANSI Function (02)

**KEYWAY:** 6-Pin solid brass "C" keyway Mortise Cylinder standard. Optional: Schlage E, Schlage C-K, Russwin D1-2-3-4, Corbin 59/60, Sargent LA-LB-LC, Falcon/Weiser E, Arrow A, Yale 8, Yale GA and Kwikset. Can also accept Medeco, Assa, Kaba and **Cal-Royal HSK High Security** Cylinders.

 **(IC) INTERCHANGEABLE CORE** locks will accept compatible 6 or 7-Pin cores with **BEST, FALCON and ARROW**.

 **(ICSC) INTERCHANGEABLE CORE** available with **Schlage Full Size Format**. Corbin, Sargent and Yale format also available.

### Lever Trim Designs



**ESC6600**



**RLESC6600**



**TUBESC6600**

Anti-Microbial Coating  
available in US26D Only.  
Use part # "**ANTB-TRIM**"  
when ordering.

# Trim Selection

## HEAVY DUTY STAINLESS STEEL

### CLUTCH LEVER ESCUTCHEON

(High Frequency Abusive Situation such as Schools, Hospitals, Industrial / Institutional)

#### CONSTRUCTION

- **Stainless Steel Material**
- Clutch Mechanism
- Double Heavy Duty Spring Support to prevent sagging and enhance operation
- Grade 1, Thru-Bolted design. Non-Handed design.
- Easily field reversible
- Includes Adjustable Heavy Duty Steel Spindle.
- Available for Fire and Non-Fire Rated Rim and Vertical Rod Exit Devices
- Standard 6-Pin Schlage "C" Mortise Cylinder included

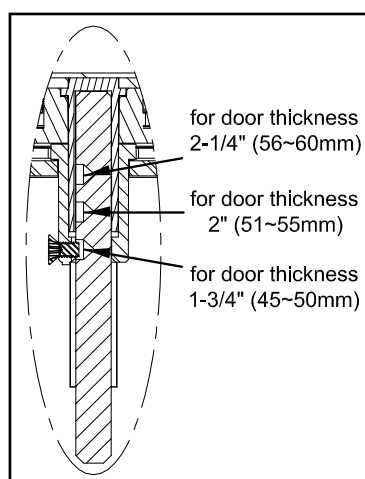
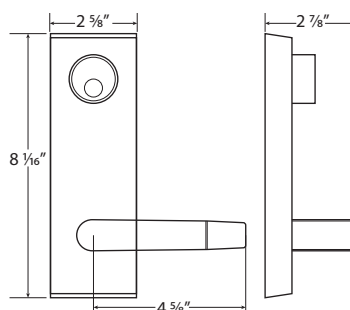
#### DOOR THICKNESS

Standard 1  $\frac{3}{4}$ " to 2  $\frac{1}{4}$ ".

Use Adjustable Spindle for 1  $\frac{3}{4}$ ", 2, 2  $\frac{1}{4}$ " door thickness.

#### ESCUTCHEON DIMENSIONS

2  $\frac{5}{8}$ " width x 8  $\frac{1}{16}$ " length. Lever length: 4  $\frac{5}{8}$ ".  
Fits and covers 2  $\frac{1}{8}$ " 161 cutout



#### Lever Trim Designs



**ESC3300**



**RLESC3300**



**TUBESC3300**

Anti-Microbial Coating available in US32D Only. Use part # "ANTB-TRIM" when ordering.

#### ESC3300

• ICESC3300

• ICSCESC3300

#### ESC3305

• ICESC3305

• ICSCESC3305

#### ESC3330

#### ESC3340

#### ENTRANCE

Clutch Entrance, key locks or unlocks escutcheon trim  
ANSI Function (08) Operates as classroom function

#### STOREROOM

Clutch Storeroom, key unlocks lever, lever retracts latch bolt, otherwise always locked. ANSI Function (09)

#### PASSAGE

Trim always operable and free. ANSI Function (14)

#### DUMMY

Dummy Escutcheon trim ANSI Function (02)

**TO ORDER** other lever design insert "RL" or "TUB" before "ESC":  
e.g. **RLESC3300** for ESC3300 with RL design  
or **TUBESC3300** for ESC3300 with TUB design

**KEYWAY:** 6-Pin solid brass "C" keyway Mortise Cylinder standard. Optional: Schlage E, Schlage C-K, Russwin D1-2-3-4, Corbin 59/60, Sargent LA-LB-LC, Falcon/Weiser E, Arrow A, Yale 8, Yale GA and Kwikset. Can also accept Medeco, Assa, Kaba and **Cal-Royal HSK High Security** Cylinders.

• (IC) **INTERCHANGEABLE CORE** locks will accept compatible 6 or 7-Pin cores with **BEST, FALCON and ARROW**.

• (ICSC) **INTERCHANGEABLE CORE** available with **Schlage Full Size Format. Corbin, Sargent and Yale** format also available.

# Trim Selection

## PULL DESIGN



**7700 NL**  
**IC7700NL**  
**ICSC7700NL**

### FOR RIM DEVICES ONLY

Outside by pull and key.  
 Key retracts latch bolt.  
 ANSI function (03)  
 Covers 161 cutout

### KEYWAY

Standard 6-Pin solid brass "C"  
 keyway Rim Cylinder included.

### FINISHES

Architectural plated finishes.



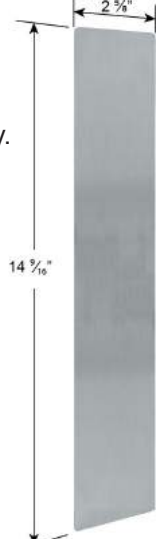
### 7700 DTP

Outside by pull only.  
 Pull when dogged.  
 ANSI function (02)  
 Covers 161 cutout.



### 7700 EOP

Outside by plate only.  
 ANSI function (01)  
 Covers 161 cutout



**IMPORTANT: 7700 Series Exit Device Trims shown on this page can be used on the 6600 Series Exit Devices**

**77TP00 or**  
**IC77TP00**  
**ICSC77TP00**

### ENTRANCE

Key locks or unlocks thumbpiece.  
 (Operates as classroom function)  
 ANSI Function (05)

**77TP05 or**  
**IC77TP05**  
**ICSC77TP05**

### STOREROOM

Key unlocks thumbpiece, thumbpiece retracts  
 latch bolt, otherwise always locked.  
 ANSI Function (06)

**77TP30**

### PASSAGE

Trim always operable and free.  
 ANSI Function (15)

**77TP40**

### DUMMY

Dummy trim. **Includes blank Mortise dummy cylinder.** One sided.  
 ANSI Function (02)

### KEYED



### DUMMY



**KEYWAY:** 6-Pin solid brass "C" keyway Mortise Cylinder standard. Optional: Schlage E, Schlage C-K, Russwin D1-2-3-4, Corbin 59/60, Sargent LA-LB-LC, Falcon/Weiser E, Arrow A, Yale 8, Yale GA and Kwikset. Can also accept Medeco, Assa, Kaba and **Cal-Royal HSK** High Security Cylinders.

### IC (IC) INTERCHANGEABLE CORE

Interchangeable Core locks will accept compatible 6 or 7-Pin cores with BEST, FALCON and ARROW.

**IC (ICSC) INTERCHANGEABLE CORE:** Indicates function available with **Schlage Full Size Format** Interchangeable Core. Corbin, Sargent and Yale format also available.

### FINISHES

Architectural plated finishes.

# Trim Selection

## PULL DESIGN



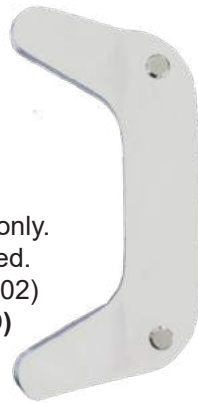
### 98GLSNL ⚙️ IC98GLSNL ⚙️ ICSC98GLSNL

Outside by pull and key.  
Key retracts latch bolt.  
ANSI Function (03)  
**(SPECIFY HANDING)**



### 98GLSUP

Outside by pull only.  
Pull when dogged.  
ANSI Function (02)  
**(NON-HANDED)**



### GLSRIMEOP

Outside cover plate  
only.  
**ANSI Function (01)**

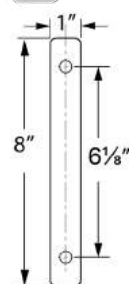
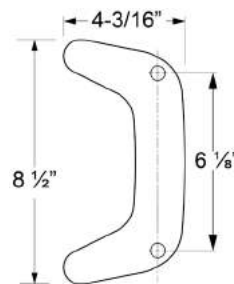


#### KEYWAY

Standard 6-Pin solid brass "C"  
keyway Rim Cylinder included.

#### FINISHES

Architectural plated finishes.



**IMPORTANT: GLS9800 and GLSCVR9800**  
Trims shown on this page can be used on  
the 6600 Series Exit Devices



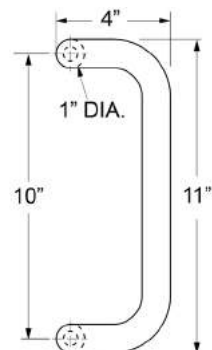
### 98GLSCYL-1



### ⚙️ IC98GLSCYL-1 ⚙️ ICSC98GLSCYL-1



### OFSTPUL-10 (REVERSIBLE)



**KEYWAY:** 6-Pin solid brass "C" keyway Rim Cylinder standard. Optional: Schlage E, Schlage C-K, Russwin D1-2-3-4, Corbin 59/60, Sargent LA-LB-LC, Falcon/Weiser E, Arrow A, Yale 8, Yale GA and Kwikset. Can also accept Medeco, Assa, Kaba and **Cal-Royal HSK** High Security Cylinders.

⚙️ **(IC) INTERCHANGEABLE CORE:** Interchangeable Core locks will accept compatible 6 or 7-Pin cores with BEST, FALCON and ARROW

⚙️ **(ICSC) INTERCHANGEABLE CORE:** Indicates function available with **Schlage Full Size Format** Interchangeable Core. Corbin, Sargent and Yale format also available.



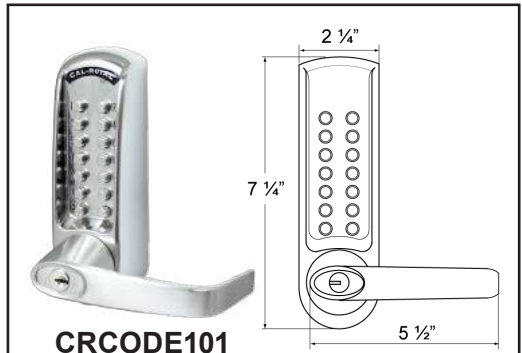
# Heavy Duty Digital Exit Trims



## MECHANICAL CRCODE101

### Features

- Heavy Duty
- Designed for 6600, 7700 and 9800 Series
- Grade 1 Rim and Surface Vertical Rod Exit Devices
- Single Code (up to 8000 code combinations)
- Weather-Resistant finish
- Code can be changed anytime without dismounting
- Full size, Non-Handed lever handle
- Easy Installation
- Reversible Handing



**CRCODE101**

## ELECTRONIC CRCODE007

### Features

- Dual mode for code free entry either mechanically by key or electronically thru the keypad
- Designed for 6600, 7700 and 9800 Series Rim Exit Devices
- Can store up to 90 different numeric user codes in 4, 5 or 6 digits
- Settings remain in memory when batteries are removed
- Audible alarm sounds after 3 incorrect attempts
- Connections available for remote release switch and automatic lock activation when linked to Fire alarm system
- Can be used as STOREROOM or CLASSROOM function
- Factory default set as STOREROOM function
- Fast and easy programming via master code



**CRCODE007**

## CR5000 TRILOGY® KEYLESS EXIT TRIM

### Features

- Clutch mechanism insures long life and durability
- Fingertip and / or Windows programmable
- 2000 User Codes: Master, manager, supervisor and users
- Real Time Clock for up to 40,000 Event Time / Date-Stamped Audit Trail
- Up to 500 Lock / Unlock Schedules (with Time Zone Support)
- Rugged 12-Button Metal Keypad
- Non-Handed; Fully Field Reversible
- Adaptable to most major manufacturers of standard RIM and IC RIM Cylinders
- Battery operated; uses 5 AA batteries
- Optional Interchangeable Core available with Best, Falcon & Arrow

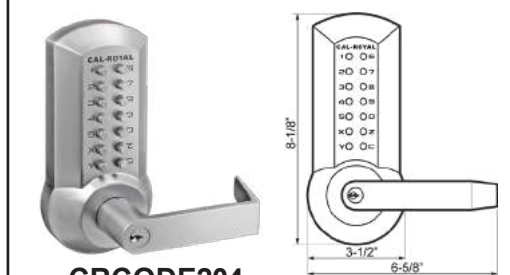


**CR5000**

## MECHANICAL CRCODE204

### Features

- Breakaway Lever Design
- Easy On-Door Code Change
- Weather Resistant
- Code-Free Option (Passage)
- Non-Handed
- 1 - 12 digit Length Code
- Thousands of Possible Code Combinations
- Single Code User
- Applications: Offices, Schools, Hospitals, Apartments, Hotels/Motels, Residential, Commerical and Public Buildings
- Door Thickness: 1 3/4" - 2"

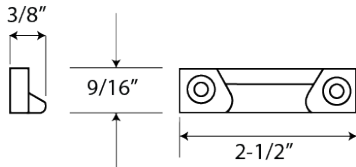


**CRCODE204**

# Strike & Accessories

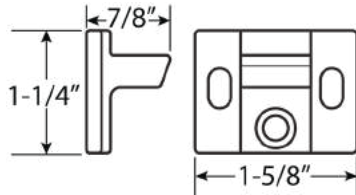


## Strikes for use with 6660 and F6660 Vertical Rod Exit Device



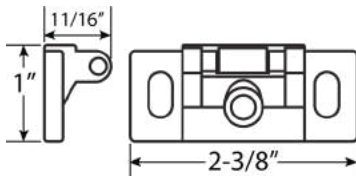
**221**

Optional Handicap Bottom Strike. Applied to surface of floor or to a flat threshold. Standard packaging.



**620**

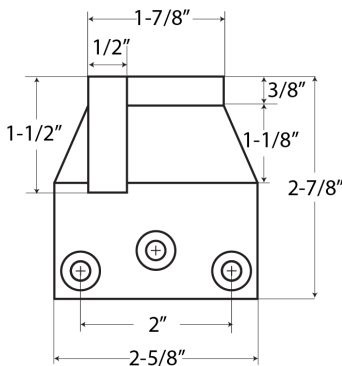
Top Strike. Standard packaging.



**630**

Bottom Strike. Applied to surface of floor or to a flat threshold. Standard packaging.

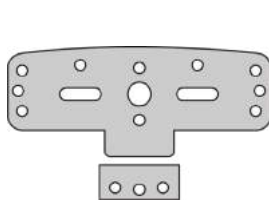
## Overlapping Strikes



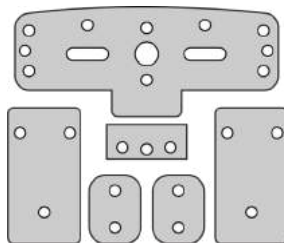
**951**

Surface applied. Used on inactive leaf for device on active leaf of pair of doors without mullion.

## GLASS BEAD SHIM KITS

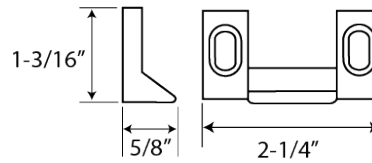


**601** – for Rim type, 1/8" thick



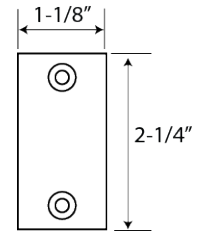
**612** – for Vertical type, 1/8" thick

## Additional Accessories



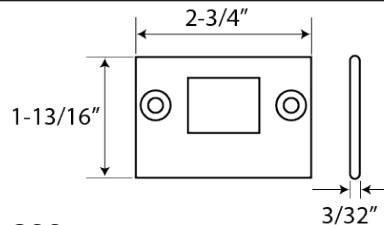
**227**

Applied to surface of stop. No mortise required.



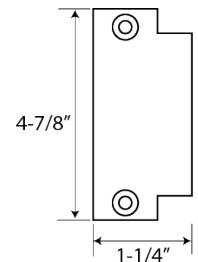
**LFF**

Lock front filler



**233**

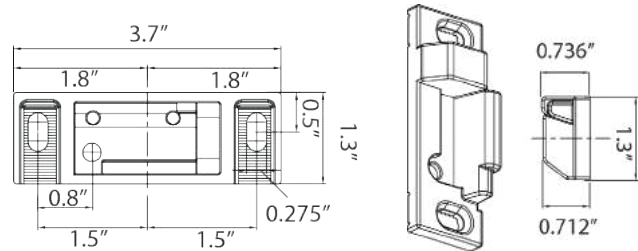
Bottom strike. Flush mounting stainless steel. Furnished with expansion shields. Requires mortise in the floor.



**SF**

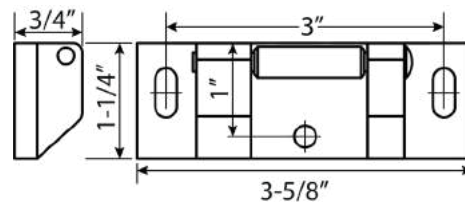
Strike filler

## Strike for use with 6600 Rim Type Exit Device



**938**

for 6600 surface applied. Standard packaging.



**660**

Roller Rim Strike for 6600 surface applied. Optional.

## Additional Rods

**EXTROD66-12** – Rod for 9' non-rated door

**EXTROD66-24** – Rod for 10' non-rated door

# Fire Exit Hardware Selector



FIRE EXIT HARDWARE RATING			UL DOOR RATING
APPLICATION	MODEL #	MAXIMUM DOOR OPENING	(A) 3 HOUR
<b>SINGLE DOORS</b> Rim type	F6600EO36 F6620EO48	4'0" X 8'0"	✓
<b>PAIRS OF DOORS</b> Two surface mounted standard vertical rod type or less bottom rod (LBR) application. Prefix <b>LBR</b> before Part #  a) Swinging in same direction b) Swinging in opposite direction (double egress )	F6660V3684 X F6660V3684	8'0" X 7'0"	✓
	F6680V4896 X F6680V4896	8'0" X 8'0"	✓
<b>PAIRS OF DOORS</b> Two rim type with Mullion	F6600EO36 F6620EO48	8'0" X 8'0"	✓

All fire rated exit devices in all applications, are also labeled for (B) 1 ½ hour, (C) ¾ hour, (D) 1 hour, (E) ¾ hour.  
All fire exit hardware meet UL10C and UBC 7-2-1997 codes.

## HOW TO ORDER INFORMATION

### Exit device model number

#### Panic grade

6600 EO36 Rim type 36" door  
6620 EO48 Rim type 48" door  
6660 V3684 Vertical rod type 36" x 84"  
6680 V4896 Vertical rod type 48" x 96"  
EXTROD66-12 – Rod for 9' non-rated door  
EXTROD66-24 – Rod for 10' non-rated door

#### Fire grade

F6600 EO36 Rim type 36" door  
F6620 EO48 Rim type 48" door  
F6660 V3684 Vertical rod type 36" x 84"  
F6680 V4896 Vertical rod type 48" x 96"

- 1) Specify exit device model number according to size of door.
- 2) Specify trim selection. For Interchangeable Core prefix "IC" before Part #. See trim selection pages.
- 3) For vertical rod devices specify LHR (Left Hand Reverse ) or RHR ( Right Hand Reverse ) for convenience easily field reversible, otherwise shipped as LHR.
- 4) Specify finish: Alum, Duro, or US32D Stainless Steel.
- 5) On thru-bolt applications, fire rated vertical rod devices are packed with thru-bolts as standard feature. Thru-bolts are also available for other devices. To order thru-bolts add "SBN" to trim pack.

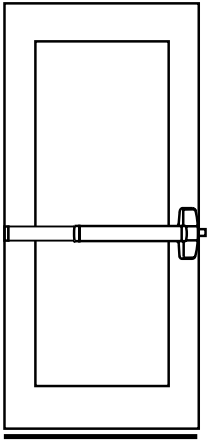
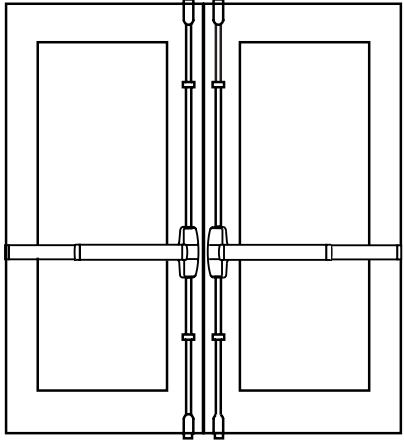
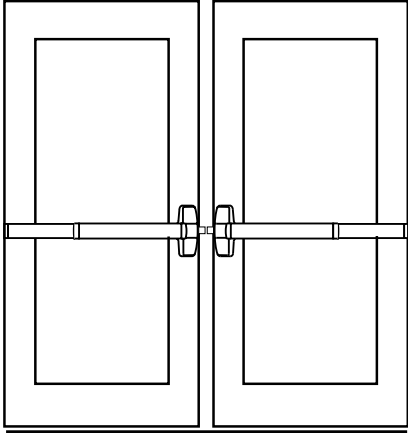
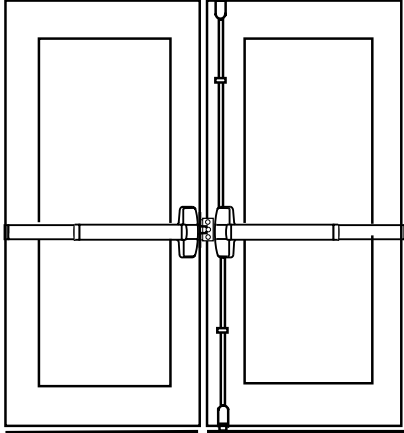
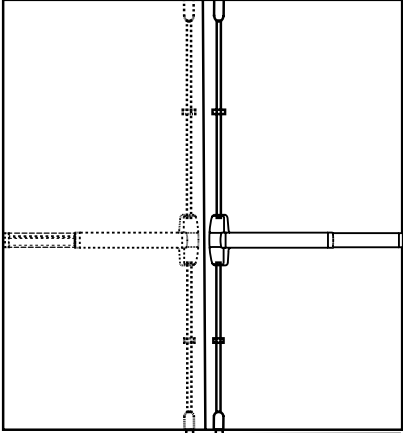
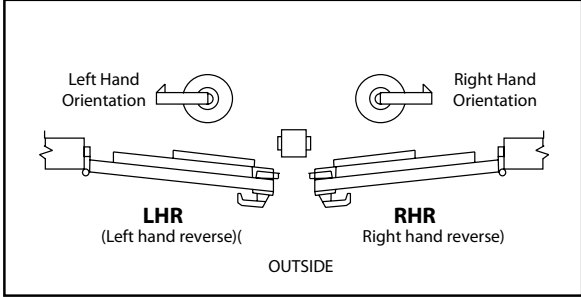
When ordering separately use following Part #

Cal-Royal Part # 357 — Thru-Bolts for Rim Devices, 6 pcs / pack.  
Cal-Royal Part # 369 — Thru-Bolts for Vertical Rod Devices, 14 pcs / pack.  
Cal-Royal Part # 363 — Thru-Bolts for Rim Devices, 6 pcs / pack for 2 ¼" thick doors.  
Cal-Royal Part # 375 — Thru-Bolts for Vertical Rod Devices, 14 pcs / pack for 2 ¼" thick doors.

**Ordering example:** 6600EO36 ALUM X SBN X ENT00L 26D  
F6680V4896 US32D X ICSTR05L 26D

# 6600 Series Fire and Non-Fire Exit Devices ANSI A156.3 Grade 1 Selector Chart



<p><b>SINGLE DOOR</b></p>  <p><b>Vertical rod type or Rim type</b> Surface applied 2 point lock. Surface application.</p>	<p><b>PAIR OF DOORS WITHOUT MULLION</b></p>  <p><b>2 Vertical rod type</b> Surface applied 2 point locking both doors. Each door active same direction. Do not use with overlapping astragal.</p>
<p><b>PAIR OF DOORS WITH MULLION</b></p>  <p><b>2 Rim type with mullion</b> Two independent active doors with full double door openings when required. Same direction.</p>	<p><b>PAIR OF DOORS WITHOUT MULLION</b></p>  <p><b>1 Vertical rod and 1 rim type</b> Both devices are surface applied. A coordinator and overlapping strike is recommended.</p>
<p><b>PAIR OF DOORS WITHOUT MULLION</b></p>  <p><b>2 Vertical rod type</b> Double egress surface applied. 2 point locking both doors opposite directions.</p>	<p><b>HANDING</b></p>  <p><b>CAL-ROYAL PRODUCTS, INC.</b>          6605 FLOTILLA ST., COMMERCE, CA 90040 U.S.A.          TEL: (323) 888-6601 FAX: (323) 888-6699          Website: <a href="http://cal-royal.com">cal-royal.com</a> * Email: <a href="mailto:sales@cal-royal.com">sales@cal-royal.com</a></p>



# Exit Devices Comparison Chart

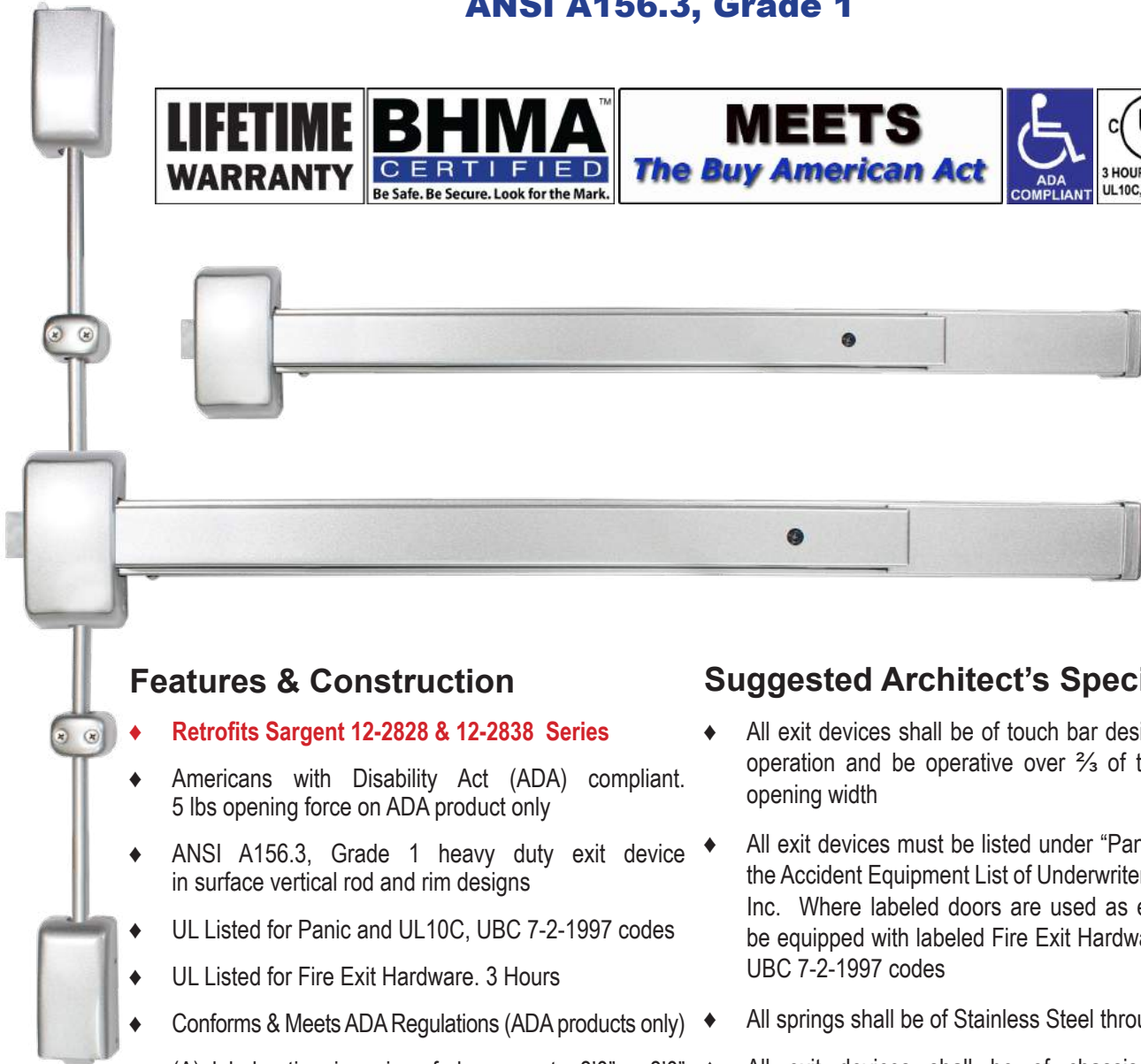
RIM EXIT DEVICE CONVERSIONS	RIM	VERTICAL ROD	RIM	VERTICAL ROD	CONCEALED VERTICAL ROD	MORTISE RIM	NARROW STILE RIM	NARROW STILE CVR
ARROW	S1200	S1100	S3800 / 1800	S3700	S3600	S3900	S4803	S4601
CAL-ROYAL	6600 / A9800 / A7700	6660V / A9860V / A7760V	A2200 / 4400	A2260V	CVR6600 / MCVR9800 / WCVR9800 / MCVR7700 / WCVR7700	MR6600 / MR9800 / MR7700	GLS6600 / GLS9800 / GLS7700	GLSCVR6600 / GLSCVR9800 / GLSCVR7700
CORBIN / RUSSWIN	ED8200	ED8400	ED5400 / ED6000	ED4750	ED5800	ED5600	ED4200	ED4800
DETEX	V4000	---	10	20	70	30	V40NS	60
DORMA	8300	8400	9300	9400	9100	9500	AD4300	AD4100
PRECISION	5100	5200	2100 / 100	9800 / 200	2800	2300	2400	2600
SARGENT	2828	2727	8800 / 9898	8700	MD8600 / WD8600	8900	AD8500	AD8410
VON DUPRIN	98 / 99	9827 / 9927	98	9827	9947EO	9975EO	33A	3348
YALE	2100	2110	7100 / 1500	7110 / 1510	7120	7130	7250	7220



Distributed by:



## A2200 & AF2200 Rim Type Panic and Fire Exit Devices (ADA) A2260V & AF2260V Vertical Rod Panic and Fire Exit Devices (ADA) ANSI A156.3, Grade 1



### Features & Construction

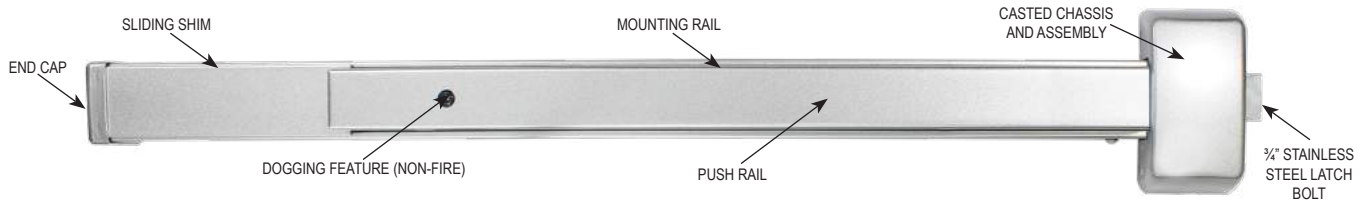
- ◆ **Retrofits Sargent 12-2828 & 12-2838 Series**
- ◆ Americans with Disability Act (ADA) compliant. 5 lbs opening force on ADA product only
- ◆ ANSI A156.3, Grade 1 heavy duty exit device in surface vertical rod and rim designs
- ◆ UL Listed for Panic and UL10C, UBC 7-2-1997 codes
- ◆ UL Listed for Fire Exit Hardware. 3 Hours
- ◆ Conforms & Meets ADA Regulations (ADA products only)
- ◆ (A) label rating in pairs of doors up to 8'0" x 8'0" swinging in same or opposite directions
- ◆ Uncompromising security and safety in single and double fire exit doors
- ◆ Chassis mounted unit construction
- ◆ Available in many different functions. Lever and escutcheon trims are grade 1 construction with clutch on rose trims. Escutcheon trims are rigid and covers 161 cut out.

### Suggested Architect's Specifications

- ◆ All exit devices shall be of touch bar design with smooth operation and be operative over  $\frac{2}{3}$  of the door's clear opening width
- ◆ All exit devices must be listed under "Panic Hardware" in the Accident Equipment List of Underwriters' Laboratories, Inc. Where labeled doors are used as exits, they must be equipped with labeled Fire Exit Hardware and UL10C, UBC 7-2-1997 codes
- ◆ All springs shall be of Stainless Steel throughout
- ◆ All exit devices shall be of chassis mounted unit construction.
- ◆ All exit devices shall be ANSI A156.3, Grade 1

# A2200 & AF2200 ADA Series

## GRADE 1 Rim Type Exit Device



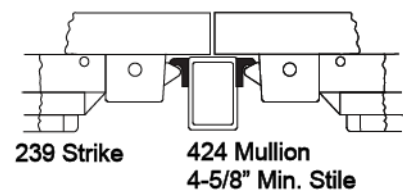
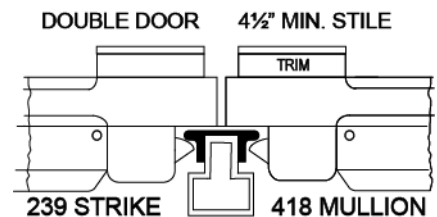
### Specifications

For Doors.....	1 3/4" thick standard optional 2 1/4" thick. 4 1/2" minimum stile width required for single or double door application using standard 239 strike and pull or lever trims
Chassis.....	Non-ferrous Alloy (Panic Grade), Steel (Fire Grade)
Cover.....	Non-ferrous Alloy. Covers stock hollow metal doors with 161 cutout
Mounting.....	Furnished standard with wood and machine screws. Available with thru-bolts on request. Thru-bolts are standard packaging on fire rated devices.
End Cap.....	Steel construction
Alarm.....	Available. See page 74
Hand.....	Non handed, center hub. 2 3/4" backset
Latch Bolt.....	Stainless Steel 3/4" throw
Spring.....	Stainless Steel throughout
ANSI Standard.....	A156.3, Grade 1
Rail Assembly.....	Heavy gauge steel, painted
Strike.....	239 packed standard (See strike page)
Dogging Feature.....	Allen-type key furnished standard on non-fire labeled devices. Cylinder dogging available
Mullion.....	Available
UL and ULC Listed.....	A2200 Series for panic. AF2200 Series for fire exit hardware for all types of 4' x 8' single doors and 8' x 8' double doors for up to 3-hour fire labeled installations. Conforms to standards UL10C and UBC 7-2-1997 codes.
Finish.....	Aluminum (Alum), Dark Bronze Duranodic (Duro), Gold
Electronic Functions.....	(ELR) Electrical Latch Retraction and RX & LX Signal Switch available

**\*Americans with Disability Act (ADA) compliant  
5 lbs opening force on ADA Series only**

**\*Refer to the Price List for Stock Sizes and Finishes**

### Minimum Stile Requirements 4" escutcheon trims & 4 1/2" for Thumbpiece and rose trims



### DIMENSIONS

Touchbar height to finished floor 41" (1041 mm) at center

#### Touchbar projection

Neutral	2 1/2" (64 mm)
Depressed	1 3/4" (45 mm)

MODEL	ACTUAL LENGTH	MAX CUT DOWN	DOOR SIZE
A2200EO24 and AF2200EO24	20"	2"	22" to 24" door width
A2200EO32 and AF2200EO32	28"	6"	26" to 32" door width
A2200EO36 and AF2200EO36	32"	6"	30" to 36" door width
A2220EO48 and AF2220EO48	44"	12"	36" to 48" door width

# A2260V & AF2260V ADA Series

## GRADE 1 Vertical Rod Type Exit Device



**LIFETIME  
WARRANTY**

**BHMA**  
CERTIFIED  
Be Safe. Be Secure. Look for the Mark.

**MEETS**  
The Buy American Act



### Specifications

<b>For Doors.....</b>	1 3/4" thick standard optional 2 1/4" thick. 3 3/4" minimum stile width required for single door application. 3 1/2" minimum stile width required for double door application. Lever trims available. 2 3/4" backset
<b>Top &amp; Bottom Chassis.....</b>	Non-ferrous Alloy (Panic Grade), Steel (Fire Grade)
<b>Cover.....</b>	Non-ferrous plated material. Covers stock hollow metal doors with 161 cut out
<b>Mounting.....</b>	Furnished standard with wood and machine screws. Thru-bolts are standard packaging on fire rated devices
<b>End Cap.....</b>	Steel construction
<b>Alarm.....</b>	Available. Prefix "NALRM" before MODEL #
<b>Hand.....</b>	Handed. Easily field reversible. Specify at time of order LHR, RHR for convenience
<b>Latch Bolt &amp; Spring.....</b>	Stainless steel
<b>ANSI Standard.....</b>	A156.3, Grade 1
<b>Rail Assembly.....</b>	Heavy gauge steel, painted
<b>Strike.....</b>	See strike page
<b>Dogging Feature.....</b>	Allen-type key furnished standard on non-fire labeled devices

**\*Americans with Disability Act (ADA) compliant  
5 lbs opening force on ADA Series only**

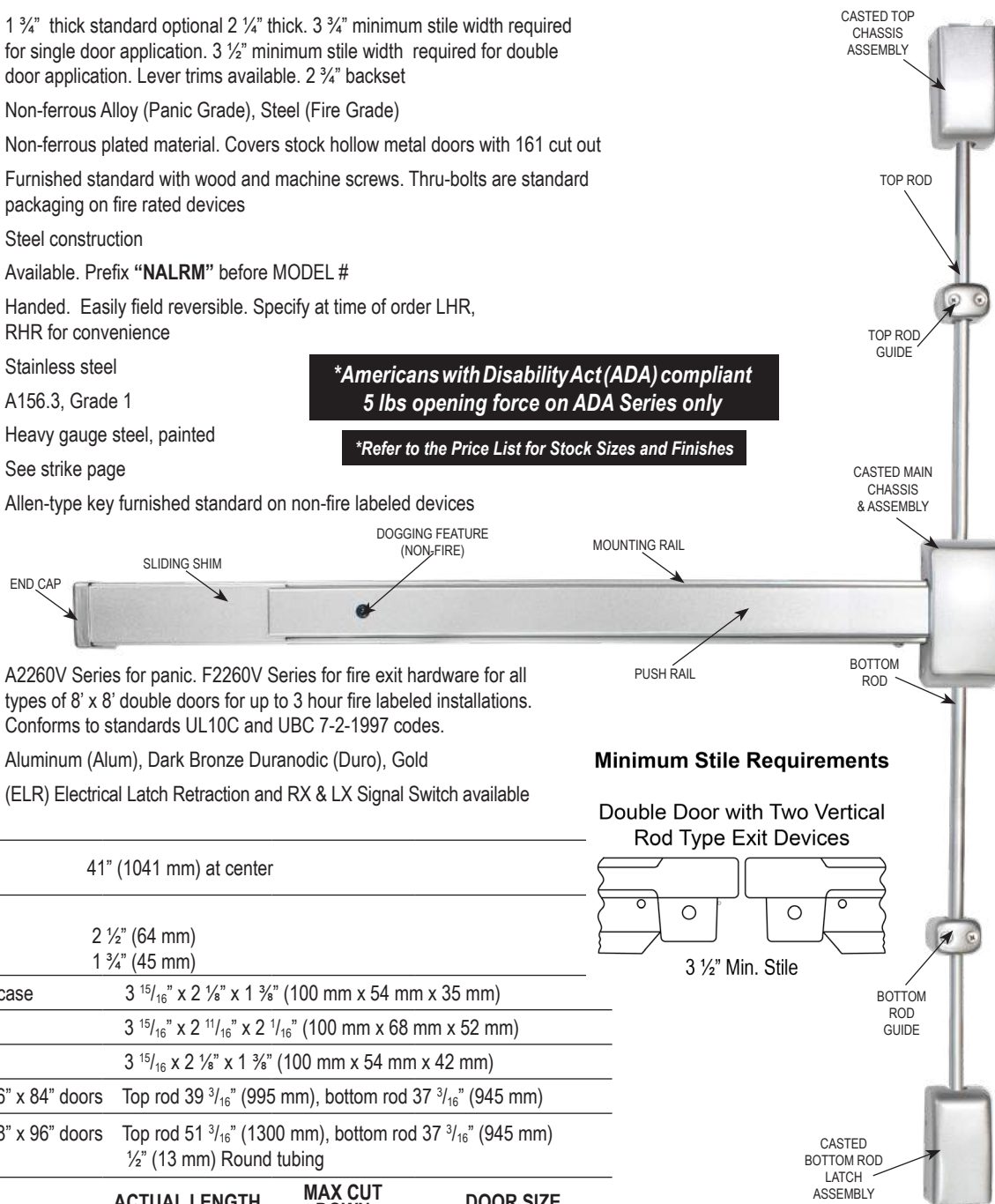
**\*Refer to the Price List for Stock Sizes and Finishes**

<b>UL and ULC Listed.....</b>	A2260V Series for panic. F2260V Series for fire exit hardware for all types of 8' x 8' double doors for up to 3 hour fire labeled installations. Conforms to standards UL10C and UBC 7-2-1997 codes.
<b>Finish.....</b>	Aluminum (Alum), Dark Bronze Duranodic (Duro), Gold
<b>Electronic Functions.....</b>	(ELR) Electrical Latch Retraction and RX & LX Signal Switch available

### DIMENSIONS

Touchbar height to finished floor	41" (1041 mm) at center
Touchbar projection	
Neutral	2 1/2" (64 mm)
Depressed	1 3/4" (45 mm)
Panic grade top & bottom latch case	3 15/16" x 2 1/8" x 1 3/8" (100 mm x 54 mm x 35 mm)
Fire grade top latch case	3 15/16" x 2 11/16" x 2 1/16" (100 mm x 68 mm x 52 mm)
Fire grade bottom latch case	3 15/16" x 2 1/8" x 1 3/8" (100 mm x 54 mm x 42 mm)
Top and bottom rod length for 36" x 84" doors	Top rod 39 3/16" (995 mm), bottom rod 37 3/16" (945 mm)
Top and bottom rod length for 48" x 96" doors	Top rod 51 3/16" (1300 mm), bottom rod 37 3/16" (945 mm)
Vertical Rods	1/2" (13 mm) Round tubing

MODEL	ACTUAL LENGTH	MAX CUT DOWN	DOOR SIZE
A2210V2484, AF2210V2484	20"	2"	22" to 24" door width
A2260V3684, AF2260V3684, A2270V3284, AF2270V3284, A2290V3696, AF2290V3696, A2250V36120	32"	6"	30" to 36" door width
A2280V4896, AF2280V4896, A2240V48120	44"	12"	36" to 48" door width





# ALBR2260V & ALBRF2260V ADA Series

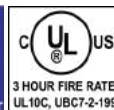
## GRADE 1 Vertical Rod Exit Device Less Bottom Rod (LBR)



**LIFETIME  
WARRANTY**

**BHMA**  
CERTIFIED  
Be Safe. Be Secure. Look for the Mark.

**MEETS**  
The Buy American Act



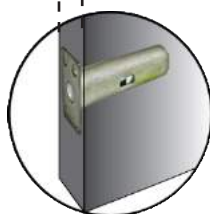
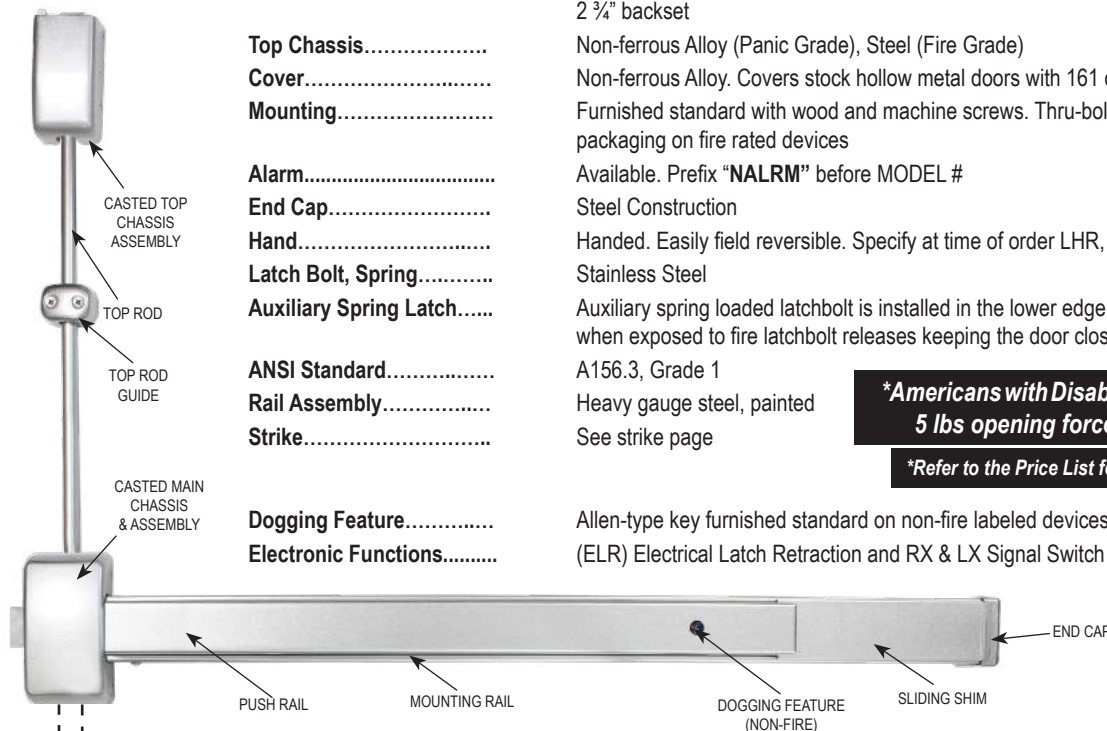
### Specifications

<b>LBR</b> .....	No Bottom Strike. Free access for wheel chairs, stretcher and carts therefore eliminates tripping potential and disfiguration of floors due to dragging of bottom bolts
<b>For Doors</b> .....	1 3/4" thick standard. 3 3/4" minimum stile width required for single door application. 3 1/2" minimum stile width required for double door application. Lever trims available. 2 3/4" backset
<b>Top Chassis</b> .....	Non-ferrous Alloy (Panic Grade), Steel (Fire Grade)
<b>Cover</b> .....	Non-ferrous Alloy. Covers stock hollow metal doors with 161 cutout
<b>Mounting</b> .....	Furnished standard with wood and machine screws. Thru-bolts are standard packaging on fire rated devices
<b>Alarm</b> .....	Available. Prefix "NALRM" before MODEL #
<b>End Cap</b> .....	Steel Construction
<b>Hand</b> .....	Handed. Easily field reversible. Specify at time of order LHR, RHR for convenience
<b>Latch Bolt, Spring</b> .....	Stainless Steel
<b>Auxiliary Spring Latch</b> .....	Auxiliary spring loaded latchbolt is installed in the lower edge of the door, when exposed to fire latchbolt releases keeping the door closed and regulated
<b>ANSI Standard</b> .....	A156.3, Grade 1
<b>Rail Assembly</b> .....	Heavy gauge steel, painted
<b>Strike</b> .....	See strike page

**\*Americans with Disability Act (ADA) compliant  
5 lbs opening force on ADA Series only**

**\*Refer to the Price List for Stock Sizes and Finishes**

<b>Dogging Feature</b> .....	Allen-type key furnished standard on non-fire labeled devices
<b>Electronic Functions</b> .....	(ELR) Electrical Latch Retraction and RX & LX Signal Switch available



Auxiliary Fire Latch  
Assembly Included

<b>UL and ULC Listed</b> .....	All Series for panic. LBR Series for fire exit hardware for all types of 8' x 8' double doors including double egress for up to 3-hour metal, 1 1/2 hour wood doors fire labeled installations. Conforms to standards UL10C and UBC 7-2-1997 codes
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### DIMENSIONS

Touchbar height to finished floor	41" (1041 mm) at center
Touchbar projection	
Neutral	2 1/2" (64 mm)
Depressed	1 3/4" (45 mm)
Panic grade top & bottom latch case	3 15/16" x 2 1/8" x 1 3/8" (100 mm x 54 mm x 35 mm)
Fire grade top latch case	3 15/16" x 2 11/16" x 2 1/16" (100 mm x 68 mm x 52 mm)
Fire grade bottom latch case	3 15/16" x 2 1/8" x 1 3/8" (100 mm x 54 mm x 42 mm)
Top and bottom rod length for 36" x 84" doors	Top rod 39 3/16" (995 mm)
Top and bottom rod length for 48" x 96" doors	Top rod 51 3/16" (1300 mm)
Vertical Rods	1/2" (13 mm) Round tubing

MODEL	ACTUAL LENGTH	MAX CUT DOWN	DOOR SIZE
ALBR2210V2484, ALBRF2210V2484	20"	2"	22" to 24" door width
ALBR2270V3284, ALBRF2270V3284	28"	6"	26" to 32" door width
ALBR2260V3684, ALBRF2260V3684, ALBR2290V3696, ALBRF2290V3696, ALBR2250V36120	32"	6"	30" to 36" door width
ALBR2280V4896, ALBRF2280V4896, ALBR2240V48120	44"	12"	36" to 48" door width

# Alarm Exit Hardware



## Features

- 1, 3, 5-minute and continuous alarm type settings available
- ON and OFF power switch
- Alarm sound frequency is 120 db
- Alarm unit has an internal horn. When the push rail is depressed, the horn sounds to provide an audible means of signaling that the door has been opened and breached.
- The key switch to turn alarm off is a standard 1 ¼" cylinder with "C" keyway. The alarm operates on one standard 9-volt transistor battery. When battery is weak the horn will emit an intermittent signal.
- Alarmed units are supplied with a micro switch, which monitors the push rail and the latch bolt and outside trim (if available) for foolproof security on rim devices
- Alarm unit has a signal OC output that can be linked to external alarm control systems
- Easy removal of the alarm unit without the need to dismount the exit device for battery maintenance
- Unit includes **"EMERGENCY EXIT ONLY ALARM WILL SOUND"** decal for application on door or unit

## Rim Type Exit Devices

NALRMA2200EO36	Alarm rim type 36" door ( panic grade )
NALRMA222048	Alarm rim type 48" door ( panic grade )
FNALRMA220036	Alarm rim type 36" door ( fire grade )
FNALRMA222048	Alarm rim type 48" door ( fire grade )

## Vertical Rod Type Exit Devices

Prefix **"NALRM"** before MODEL #.

## Power Supplies

Power supplies for electrified exit devices are available.  
See pages 97-98.

# Trim Selection

## CLUTCH CYLINDRICAL LEVER



### Non-Handed Grade 1 (Clutch Style)

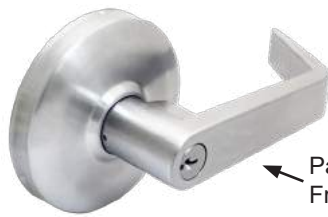
Cylindrical body hardened steel heavy duty tailpiece. For 1 3/4" and 2 1/4" doors.  
Prefix "THI" before Part # for 2 1/4" door thickness.

Available for fire and non-fire rated rim and vertical rod exit devices.

Rose diameter 3 1/2", lever length 4 3/4". Fits and covers 161 cutout.

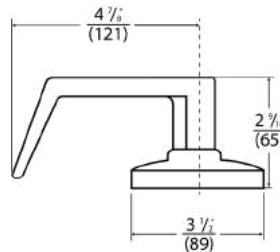
Finishes: US26D, US26, US3, US4, US10B, US10BE, US1

**\*GN DESIGN ONLY: ENT00L, ICENT00L, STR05L, ICSTR05L, PAS30L, DUM40L IN US32D FINISH, ALL STAINLESS STEEL EXTERIOR. INCLUDES GRADE 304SS LEVER AND ROSE**



**GN DESIGN**

Patented Clutch  
Freewheeling



#### ENT00L or

• ICENT00L or

• ICSCENT00L4

• SARICENT00L (Sargent)

• RUSICENT00L (Corbin / Russwin)

• YALICENT00L (Yale)

#### 8000K

#### STR05L or

• ICSTR05L or

• ICSCSTR05L4

• SARICSTR05L (Sargent)

• RUSICSTR05L (Corbin / Russwin)

• YALICSTR05L (Yale)

#### PAS30L

#### DUM40L

#### ENTRANCE

Key locks and unlocks lever.

Operates as CLASSROOM  
FUNCTION.

ANSI Function (08)

Ball Knob Keylock

#### STOREROOM

Key operates lever,  
otherwise always locked.

ANSI Function (09)

#### PASSAGE

Trim always operable and free.  
ANSI Function (14)

#### DUMMY

Dummy trim. One sided  
ANSI Function (02)

**KEYWAY:** 6-Pin solid brass "C" keyway standard. Optional: Schlage E, Schlage C-K, Russwin D1-2-3-4, Corbin 59/60, Sargent LA-LB-LC, Falcon/Weiser E, Arrow A, Yale 8, Yale GA and Kwikset. Can also accept Medeco, Assa, Kaba and **Cal-Royal HSK** High Security Cylinders.

• (IC) **INTERCHANGEABLE CORE:** Interchangeable Core locks will accept compatible 6 or 7-Pin cores with **BEST, FALCON and ARROW.**

• (ICSC) **INTERCHANGEABLE CORE:** Indicates function available with **SCHLAGE, CORBIN/RUSSWIN, SARGENT and YALE Full Size Format Interchangeable Core**

KEYWAY	+	DESIGN	+	FUNCTION	+	FINISH	
BEST, FALCON, & ARROW - SCHLAGE - CORBIN/RUSSWIN - SARGENT - YALE -		IC ICSC RUSIC SARIC YALIC		AT SPA TUB* AUG DAN LON TAC		ENT00L STR05L PAS30L DUM40L	

#### HOW TO ORDER IN LFIC

Example: ICSCENT00L4 US26D  
in "SPA" design is  
ICSCSPAENT00L4 US26D

**\*\*Note:** Yale LFIC is only available in GN, AT, SPA lever designs | TUB\* is only available in SFIC.

### Other Lever Trim Designs

• Available in  
SFIC & LFIC



**AT**

• Available in  
SFIC & LFIC



**SPA**

• Available  
in SFIC



**TUB**

• Available in  
SFIC & LFIC  
*\*except YALE LFIC*



**AUG**

• Available in  
SFIC & LFIC  
*\*except YALE LFIC*



**DAN**

• Available in  
SFIC & LFIC  
*\*except YALE LFIC*



**LON**

• Available in  
SFIC & LFIC  
*\*except YALE LFIC*



**TAC**



**8000K**

Anti-Microbial Coating available in US26D or US32D  
Only. Use part # **"ANTB-TRIM"** when ordering.

# Trim Selection

## RIGID LEVER ESCUTCHEON



### CONSTRUCTION

- Grade 1, thru-bolted design, rigid non-clutch, Non-handed design.
- Easily field reversible.
- Hardened steel heavy duty tailpiece. Available for fire and non-fire rated rim and vertical rod exit devices.
- Standard 6-Pin Schlage "C" Mortise Cylinder included

### FINISHES

- Powder coated aluminum (alum)
- Powder coated dark bronze duralumin (duro)
- Powder coated gold

### DOOR THICKNESS

Standard 1 3/4". For 2 1/4" thick door use additional PART # TAIL3.

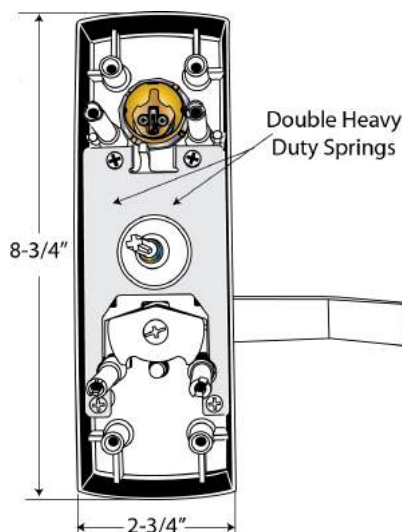
### ESCUTCHEON DIMENSIONS

2 3/4" width X 8 3/4" length. Lever length: 4 3/4".

Fits and covers 2 1/8" 161 cutout



<b>NESC2200 or</b> ⌘ <b>ICNESC2200 or</b> ⌘ <b>ICSCNESC2200</b>	<b>ENTRANCE</b> Rigid Entrance, key locks or unlocks escutcheon trim ANSI Function (08) Operates as classroom function
<b>NESC2205 or</b> ⌘ <b>ICNESC2205 or</b> ⌘ <b>ICSCNESC2205</b>	<b>STOREROOM</b> Rigid Storeroom, key unlocks lever, lever retracts latch bolt, otherwise always locked ANSI Function (09)
<b>NESC2230</b>	<b>PASSAGE</b> Trim always operable and free ANSI Function (14)
<b>NESC2240</b>	<b>DUMMY</b> Dummy Escutcheon trim ANSI Function (02)



**KEYWAY:** 6 pin solid brass "C" keyway Mortise Cylinder standard. Optional: Schlage E, Schlage C-K, Russwin D1-2-3-4, Corbin 59/60, Sargent LA-LB-LC, Falcon/Weiser E, Arrow A, Yale 8, Yale GA and Kwikset. Can also accept Medeco, Assa, Kaba and **Cal-Royal HSK** High Security Cylinders.

⌘ **(IC) INTERCHANGEABLE CORE:** Interchangeable Core locks will accept compatible 6 or 7-Pin cores with BEST, FALCON and ARROW

⌘ **(ICSC) INTERCHANGEABLE CORE:** Indicates function available with **Schlage Full Size Format** Interchangeable Core. Corbin, Sargent and Yale format also available.

**FOR ELECTRIFIED TRIM OPTIONS SEE PAGE 78**



# Trim Selection

## PULL DESIGN



**2200PULNL**  
**IC2200PULNL**  
**ICSC2200PULNL**



FOR RIM DEVICES ONLY  
Outside by pull and key.  
Key retracts latch bolt.  
ANSI Function (03).  
Covers 161 cutout.  
Standard Rim Cylinder  
available in "C" 6-Pin and  
optional Kwikset KW keyways  
included.

**2200 NL**  
**IC2200NL**  
**ICSC2200NL**



FOR RIM DEVICES ONLY  
Outside by pull and key.  
Key retracts latch bolt.  
ANSI Function (03).  
Covers 161 cutout. Standard  
Rim Cylinder available in "C"  
6-Pin and optional Kwikset  
KW keyways included.

**2200DTP**



Outside by pull only.  
Pull when dogged.  
ANSI Function (02)  
Covers 161 cutout.

**2200EOP**



Outside by plate only.  
ANSI Function (01)  
Covers 161 cutout.

**8000K**  
**ENTRANCE**



Key locks and unlocks knob.  
Operates as classroom  
function. ANSI Function (08)

## THUMBPIECE TRIM (OPERATES ON RIM & VERTICAL ROD DEVICES)

**THP00 or**  
**ICTHP00**  
**ICSCTHP00**

**ENTRANCE**  
Key locks or unlocks thumbpiece.  
(Operates as classroom function)  
ANSI Function (05)

**THP05 or**  
**ICTHP05**  
**ICSCTHP05**

**STOREROOM**  
Key unlocks thumbpiece, thumbpiece retracts  
latch bolt, otherwise always locked.  
ANSI Function (06)

**THP30**

**PASSAGE**  
Trim always operable and free.  
ANSI Function (15)

**THP40**

**DUMMY**  
Dummy trim. **Includes blank Mortise  
dummy cylinder.**  
ANSI Function (02)

**KEYED**



**DUMMY**



### FINISHES

Powder coated Aluminum, Dark Bronze (DURO), Gold for PULL and THUMBPIECE TRIMS.  
US32D,3,10B for 8000K knob trim.

**KEYWAY:** 6 pin solid brass "C" keyway Mortise Cylinder standard. Optional: Schlage E, Schlage C-K, Russwin D1-2-3-4, Corbin 59/60, Sargent LA-LB-LC, Falcon/Weiser E, Arrow A, Yale 8, Yale GA and Kwikset. Can also accept Medeco, Assa, Kaba and **Cal-Royal HSK** High Security Cylinders.

### ⌘ (IC) INTERCHANGEABLE CORE

Interchangeable Core locks will accept compatible 6 or 7-Pin cores with BEST, FALCON and ARROW.

### ⌘ (ICSC) INTERCHANGEABLE CORE

Indicates function available with **Schlage Full size format** Interchangeable Core. Corbin, Sargent and Yale format also available.

### DOOR THICKNESS

Standard 1 3/4". For 2 1/4" thick door use additional PART # TAIL 7.

# Heavy Duty Mechanical Push Button Lock



## MECHANICAL CRCODE204

### Features

- Breakaway Lever Design
- Easy On-Door Code Change
- Weather Resistant
- Code-Free Option (Passage)
- Non-Handed
- 1 - 12 digit Length Code
- Thousands of Possible Code Combinations
- Single Code User
- Applications: Offices, Schools, Hospitals, Apartments, Hotels/Motels, Residential, Commercial and Public Buildings
- Door Thickness: 1 3/4" - 2"
- 2-year limited warranty



# Electrified Lever Trim

Cal-Royal's electrified lever trim provides remote locking and unlocking capabilities using industry safety standards. The solenoid can be energized from a distant controller, thus allowing access control of the opening.

The control of stairwells in high-rise buildings is a common application for this trim, where electric pullback of the exit device's latch bolt is cost prohibitive or not required. This is especially practical in applications where fire / life safety codes require a "fail-safe" condition which is not an option with electrified latch pullback devices. Because the current draw is quite low there is no need for a more expensive power supply to provide the surge current.

### Features

- Continuous duty solenoids used to insure trouble-free operation
- No hassle 3-Year Warranty
- Requires additional door prep

### Options

- Available Fail Safe (Electrically Locked) or Fail Secure (Electrically Unlocked)
- Voltage options – 12V or 24V (AC / DC)
- Request to Enter Switch (REE) available
- CRU2 – Current Reduction Unit to improve solenoid life in "continuously on" applications



### Specifications

Solenoid.....Continuous Duty

Operating Voltage.....12 or 24V AC / DC  $\pm$  10%  
(must specify 12 or 24 volts  
when ordering)

Amperage.....250mA @ 12V / 150mA @ 24V

Coil Resistance.....12V = 49 $\Omega$  / 24V = 159 $\Omega$

### To order, Specify:

OPTIONS: FAIL SAFE (FS)  
FAIL SECURE (FSE)

ITEM#	DESCRIPTION
FS12 ESC22	FS12 FAIL-SAFE OPTION 12V AC / DC
FS24 ESC22	FS24 FAIL-SAFE OPTION 24V AC / DC
FSE12 ESC22	FSE12 FAIL-SECURE OPTION 12V AC / DC
FSE24 ESC22	FSE24 FAIL-SECURE OPTION 24V AC / DC

# (ELR) Electric Latch Retraction



Our motor driven electrified latch pullback exit device allows for remote keyless access control in high occupancy / high traffic conditions where exit devices are required. Common applications include conditions such as hospitals, airports, schools, churches and they are commonly specified in applications that require automatic door openers. The device may be continuously energized allowing for a push / pull condition if desired.

## Features:

- Available on 2200 Series, including rim, surface vertical rod exit devices both fire and non fire-rated devices
- MM4 Smart Module: On board diagnostics with audible feedback for adjustment and power issues
- "PTS" (Push to Set Technology): 5 second electronic adjustment for easy post installation adjustment
- Electric dogging rated for continuous duty - Auto retraction if dogged push pad is pulled from position
- Low Current Draw - Field switchable to "High Torque" mode
- Up to 300' wire run with (2) 18ga wire - Long wire runs provides installer with convenience of placing the locking device power supply in a centralized location; i.e. the same closet as the access panel
- 8' cable with Quick Connect for MM4 module to easily connect to power supply lead
- 3-year "No Hassle" warranty

## Specifications:

- Voltage – 24 to 28V DC
- System protection – unit shutdown when voltage exceeds 28V DC
- Average In-rush Current – 900mA; Average Hold Current - 215mA
- PTS adjustment – approx. 1/4"
- Wire run: 300' with 18ga wire

**INSTALLED ON THE EXIT  
DEVICE: USE FLR2298 ADD**

**FOR FIELD INSTALLATION  
USE FLR2298 KIT**

## To Order:

- **Must Specify: Exit Device item # and FLR2298 ADD** as two separate line items.  
For Example: A2200EO36 US32D with ELR option, order "**A2200EO36 US32D**", and "**FLR2298 ADD**" as two line items.
- **\*Use FLR2298 KIT if ordered separately.**
- **Optional Switch** (RX or LX) is also available and should be added as a **3<sup>rd</sup> line item** as needed.

**Note:** When using electrified hinge, you must use prefix ELELRn + hinge item code, where "n" is equal to number of wires. For example: ELELR4 + BB31.

**MUST USE CRP POWER SUPPLIES TO  
HONOR WARRANTY (see pages 97-98)**



# Signal Switch RX and LX

**RX** (request to exit) signal switch is used to signal the use of an opening from the push side. When the push pad is depressed, the switch is activated. These devices are equipped with an internal SPDT (single pole double throw) switch that monitors the touch bar.

**LX** (latch bolt monitoring) signal switch monitors both egress and access of an opening. When the latch bolt is retracted, the switch is activated. These devices are equipped with an internal SPDT (single pole double throw) switch that monitors the latch bolt position.

**LX** and **RX** switches can be combined.

**LX, RX** switches can be used in combination with ELR (electric latch retraction) option.

## Specifications

**RX** or **LX**.....Switch rated 0.5 amps @ 24V AC / DC resistive

Low current **RX** or **LX**.Switch rated 0.5 amps @ 24V AC / DC resistive

## for Factory Installed. To Order, Specify:

**RX22/98**.....Request to Exit switch for field installation

**LX2200**.....Latch bolt Monitoring switch for field installation

**LXRX2200**.....Latch bolt Monitoring / Request to Exit Combination

# KABA® - Cal-Royal Combination

Cal-Royal's Exit hardware devices combined with Kaba InSync CP provide a variety of alternatives when addressing community access control. Recommended for applications such as controlling building entry openings, common area rooms and doors with exit devices. InSync CP are available as stand-alone battery operated door locks designed to work in conjunction with Cal-Royal's Exit Hardware Devices.

**KABA InSync CP is not sold through CAL-ROYAL.** For inquiries and information on InSync line of products please visit [www.kabamultihousing.com](http://www.kabamultihousing.com)



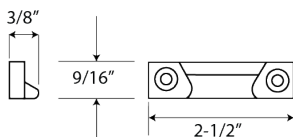
# Strikes & Accessories



## Strikes for use with A2260V Vertical Rod Exit Device All strikes are black nylon coated

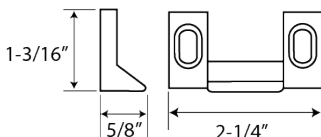
### 221

Standard for A2260V.  
Applied to surface of floor or to a flat threshold.  
Standard packaging.



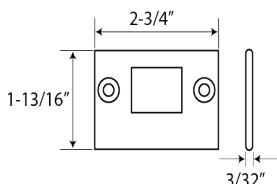
### 227

Applied to surface of stop.  
No mortise required.  
Standard packaging.



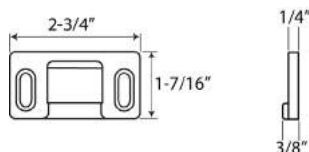
### 233

Bottom strike. Alternate bottom strike. Flush mounting stainless steel. Furnished with expansion shields. Requires mortise in the floor.



### RIM238

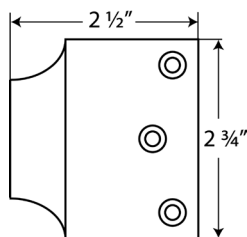
Strike for 2 3/8"  
Backset Application



## Overlapping Strikes

### N251

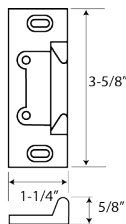
Surface applied. Used on inactive leaf for device on active leaf of pair of doors without mullion



## Additional Rods

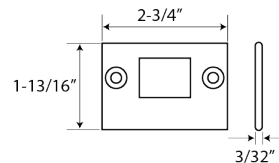
Vertical rod for 10 feet high doors.  
Available on non-fire rated vertical rod devices only.  
Use Part # VRRD10

## Strikes for use with AF2260V Vertical Rod Fire Exit device



### 245

Surface applied for AF2260V.  
Standard packaging.



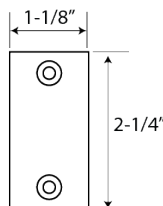
### 233

Bottom strike for AF2260V. Flush mounting stainless steel. Furnished with expansion shields. Requires mortise in the floor.  
Standard packaging.

## Additional Accessories

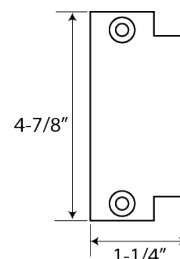
### LFF

Lock front filler

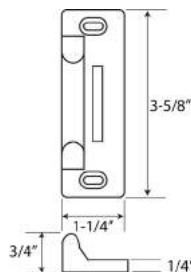


### SF

Strike filler



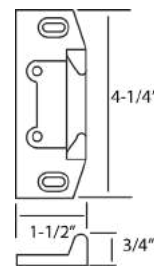
## Strikes for use with A2200 Rim Type Exit Device



### 239

For A2200 surface applied.  
Standard packaging

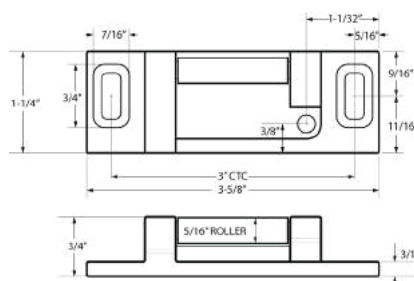
## Strikes for use with AF2200 Rim Type Fire Exit Device



### 245

For AF2200 surface applied.  
Standard packaging.

## ADA Roller Strike for A2200, AF2200, A2260V, and AF2260V Fire and Non-Fire Exit Devices



945 (NON-FIRE RATED)  
945F (FIRE RATED)



# Strikes & Accessories



## CYLINDER DOGGING KITS

**TO ORDER:** Prefix "CD" before PART #. Available for all 2200 Series devices except fire exit hardware. Cylinder dogging with mortise cylinder is located on the mounting insert lock bolt in retracted position.

To order **KIT ONLY**: use PART # 36CD2200 for 36" and 48CD2200 for 48" devices. Specify finish.

**KEYWAYS:** 6-Pin solid brass "C" keyway standard. Optional: Schlage E, Schlage C-K, Russwin D1-2-3-4, Corbin 59/60, Sargent LA-LB-LC, Falcon/Weiser E, Arrow A, Yale 8, Yale GA and Kwikset. Can also accept Medeco, Assa, Kaba and **Cal-Royal HSK** High Security Cylinders.



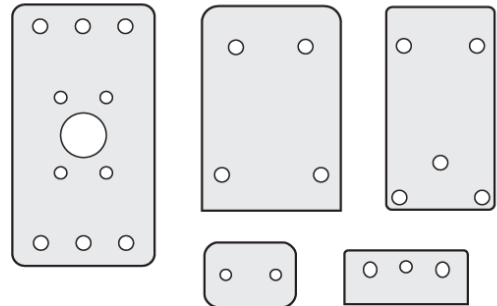
## GLASS BEAD SHIM KITS

**401** – For rim type, 1/8" thick

**406** – For vertical type, 1/8" thick

**412** – For fire rated type, 1/8" thick

When exit devices are used with shim kits with outside trim, spindle length thumbpiece and thru bolt length must be increased accordingly.



## STANDARD HEX DOGGING KIT



(For non-rated Panic Bar)  
PART # **DOGGINGKIT** (2200 Series)

# Fire Exit Hardware Selector



FIRE EXIT HARDWARE RATING			UL DOOR RATING
APPLICATION	MODEL #	MAXIMUM DOOR OPENING	(A) 3 HOUR
<b>SINGLE DOORS</b> Rim type	AF2200EO36 AF2220EO48	4'0" X 8'0"	✓
<b>PAIRS OF DOORS</b> Two surface mounted standard vertical rod type or less bottom rod (LBR) application. Prefix <b>LBR</b> before Part #  a) Swinging in same direction b) Swinging in opposite direction (double egress )	AF2260V3684 X AF2260V3684	8'0" X 7'2"	✓
	AF2290V3696 X AF2290V3696 AF2280V4896 X AF2280V4896	8'0" X 8'0"	✓
<b>PAIRS OF DOORS</b> Two rim type with Mullion	AF2200EO36 AF2220EO48	8'0" X 8'0"	✓

All fire rated exit devices in all applications, are also labeled for (B) 1 ½ hour, (C) ¾ hour, (D) 1 hour, (E) ¾ hour.

All fire exit hardware meet UL10C and UBC 7-2-1997 codes.

Includes ADA Series.

## HOW TO ORDER INFORMATION

### Exit device model number

#### Panic grade

A2200 EO36 Rim type 36" door  
A2220 EO48 Rim type 48" door  
A2260 V3684 Vertical rod type 36" x 84"  
A2290 V3696 Vertical rod type 36" x 96"  
A2280 V4896 Vertical rod type 48" x 96"  
VRRD10 – Rod for 10' non-rated door  
A2250 V36120 Vertical rod type 36" x 120"  
A2240 V48120 Vertical rod type 48" x 120"

#### Fire grade

AF2200 EO36 Rim type 36" door  
AF2220 EO48 Rim type 48" door  
AF2260 V3684 Vertical rod type 36" x 84"  
AF2290 V3696 Vertical rod type 36" x 96"  
AF2280 V4896 Vertical rod type 48" x 96"

- 1) Specify exit device model number according to size of door.
- 2) Specify trim selection. For interchangeable core prefix "IC" before part #.
- 3) For vertical rod devices specify LHR (Left Hand Reverse ) or RHR ( Right Hand Reverse ) for convenience easily field reversible, otherwise shipped as LHR.
- 4) Specify finish:  
Alum - Powder coated to match US26D  
Duro - Powder coated to match US10B  
Gold - Powder coated to match US4, US3
- 5) On thru bolt applications, fire rated vertical rod devices are packed with thru-bolts as standard feature. Thru-bolts are also available for other devices. To order thru-bolts add "SBN" to trim pack.

When ordering separately use following part #

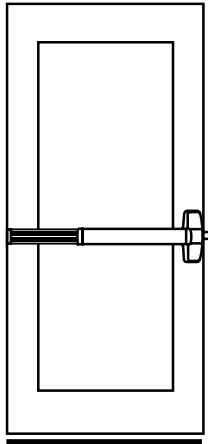
Cal-Royal Part # 357 — Thru-bolts for rim devices, 6 pcs / pack.  
Cal-Royal Part # 369 — Thru-bolts for vertical rod devices, 14 pcs / pack.  
Cal-Royal Part # 363 — Thru-bolts for rim devices, 6 pcs / pack for 2 ¼" thick doors.  
Cal-Royal Part # 375 — Thru-bolts for vertical rod devices, 14 pcs / pack for 2 ¼" thick doors.

**Ordering example:** A2200EO36 ALUM X SBN X ENT00L 26D  
AF2280V4896 DURO X ICSTR05L 10B

# 2200 Series Fire and Non-Fire Exit Devices ANSI A156.3 Grade 1 Selector Chart

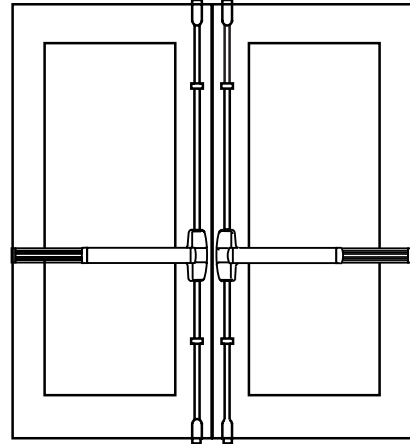


**SINGLE DOOR**



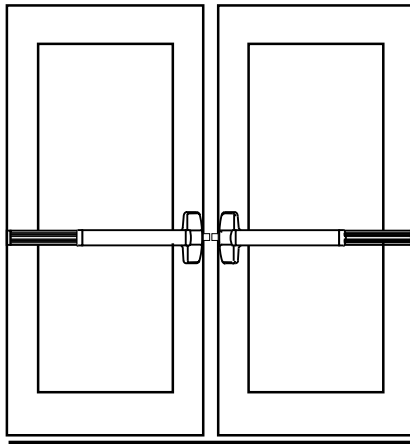
**Vertical rod type or Rim type** Surface applied 2 point lock, Surface application.

**PAIR OF DOORS WITHOUT MULLION**



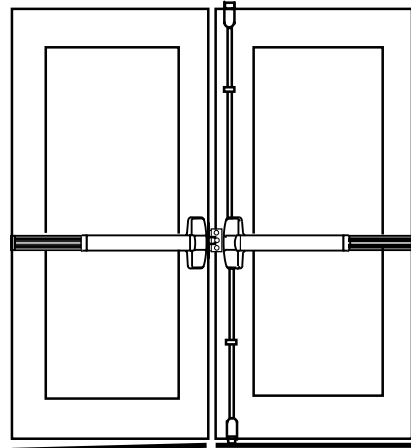
**2 Vertical rod type** Surface applied 2 point locking both doors. Each door active same direction. Do not use with overlapping astragal.

**PAIR OF DOORS WITH MULLION**



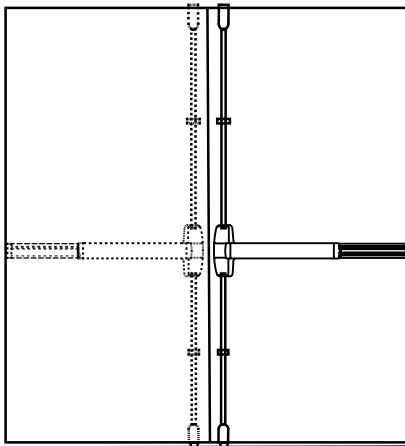
**2 Rim type with mullion** Two independent active doors with full double door openings when required. Same direction.

**PAIR OF DOORS WITHOUT MULLION**



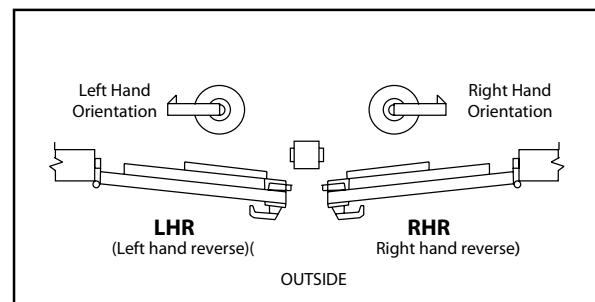
**1 Vertical rod and 1 rim type** Both devices are surface applied. A coordinator and overlapping strike is recommended.

**PAIR OF DOORS WITHOUT MULLION**



**2 Vertical rod type** Double egress surface applied. 2 point locking both doors opposite directions.

**HANDING**



**CAL-ROYAL PRODUCTS, INC.**

6605 FLOTILLA ST., COMMERCE, CA 90040 U.S.A.

TEL: (323) 888-6601 FAX: (323) 888-6699

Website: [cal-royal.com](http://cal-royal.com) \* Email: [sales@cal-royal.com](mailto:sales@cal-royal.com)

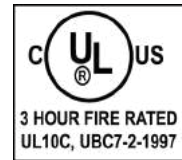
# Exit Devices Comparison Chart

RIM EXIT DEVICE CONVERSIONS	RIM	VERTICAL ROD
ARROW	S3800 / 1800	S3700
CAL-ROYAL	A2200 / 4400	A2260V
CORBIN/RUSSWIN	ED5400 / ED6000	ED4750
DETEX	10	20
DORMA	9300	9400
PRECISION	2100 / 100	9800 / 200
SARGENT	8800 / 9898	8700
VON DUPRIN	98	9827
YALE	7100 / 1500	7110 / 1510





## 5000 & F5000 Rim Type Panic And Fire Exit Devices ANSI A156.3, Grade 2



### Features & Construction

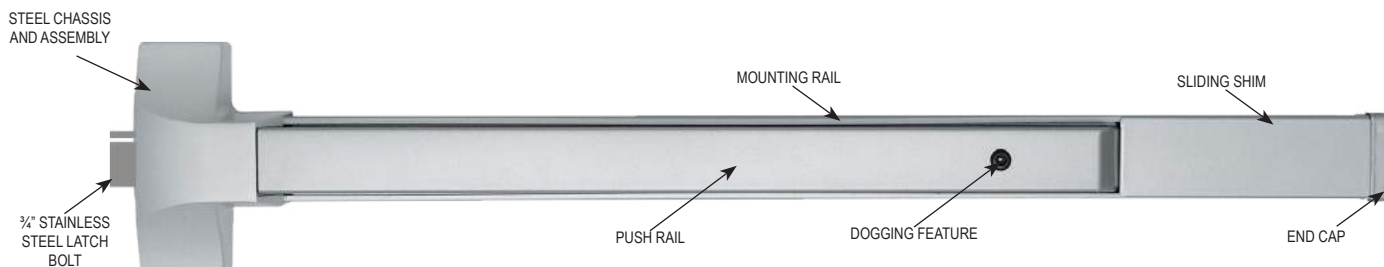
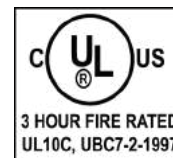
- ◆ ANSI A156.3, Grade 2 heavy duty exit device in surface vertical rod and rim designs
- ◆ UL Listed for Panic and ULC10C, UBC 7-2-1997 codes
- ◆ UL Listed for Fire Exit Hardware. 3 hours
- ◆ Conforms and Meets ADA Regulations
- ◆ (A) label rating on pairs of doors up to 8'0" x 8'0" swinging in same or opposite directions
- ◆ Uncompromising security and safety in single and double fire exit doors
- ◆ Chassis mounted unit construction
- ◆ Available in standard functions. Lever and knob trims are grade 2 construction with optional clutch freewheeling mechanism. Rose covers 161 cut out

### Suggested Architect's Specifications

- ◆ All exit devices shall be of touch bar design with smooth operation and be operative over  $\frac{2}{3}$  of the door's clear opening width
- ◆ All exit devices must be listed under "Panic Hardware" in the Accident Equipment List of Underwriters' Laboratories, Inc. Where labeled doors are used as exits, they must be equipped with labeled Fire Exit Hardware and UL10C, UBC 7-2-1997 codes
- ◆ All exit devices shall be of chassis mounted unit construction

# 5000 & F5000 Series

## GRADE 2 Rim Type Exit Device



### Specifications

<b>For Doors.....</b>	1 3/4" thick standard 3 3/4" minimum stile width required for single or double door application using standard 938 strike and pull or lever trims
<b>Chassis.....</b>	Steel (Panic Grade), steel (Fire Grade)
<b>Cover.....</b>	Covers stock hollow metal doors with 161-cutout
<b>Mounting.....</b>	Furnished standard with wood and machine screws. Available with thru-bolts on request. Thru-bolts are standard packaging on fire rated devices
<b>End Cap.....</b>	Steel construction
<b>Hand.....</b>	Non-handed, center hub
<b>Latch Bolt.....</b>	Stainless steel 3/4" throw
<b>Spring.....</b>	Steel throughout
<b>ANSI Standard.....</b>	A156.3, Grade 2
<b>Rail Assembly.....</b>	Heavy gauge steel, painted
<b>Strike.....</b>	938 packed standard (See strike page)
<b>Dogging Feature.....</b>	Allen-type key furnished standard on non-fire labeled devices
<b>Mullion.....</b>	Available
<b>UL and ULC Listed.....</b>	5000 Series for panic. F5000 Series for fire exit hardware for all types of 3' x 7' single doors and 6' x 7' double doors for up to 3 hour fire labeled installations. Conforms to standards UL10C and UBC 7-2-1997 codes
<b>Finish.....</b>	Aluminum (ALUM), Stainless Steel (US32D)
<b>Anti-Microbial Coating.....</b>	Available on US32D only. Use part # ANT-B-EXIT

### DIMENSIONS

Touchbar height to finished floor 41" (1041 mm) at center

#### Touchbar projection

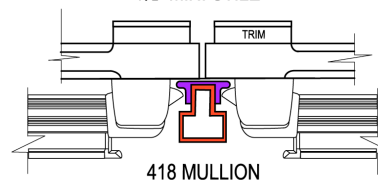
Neutral	2 1/2" (64 mm)
Depressed	1 3/4" (45 mm)

MODEL	ACTUAL LENGTH	MAX CUT DOWN	DOOR SIZE
5000EO36 and F5000EO36	32"	6"	30" to 36" door width
5500EO48 and F5500EO48	39"	12"	31" to 48" door width

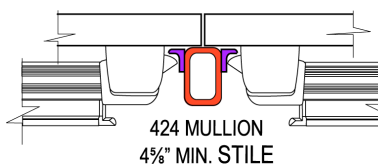
**Minimum Stile Requirements**  
4" escutcheon trims and  
4 1/2" for thimbipiece and rose trims

#### DOUBLE DOOR

4 1/2" MIN. STILE

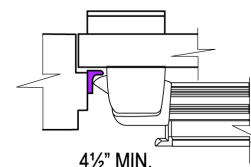


418 MULLION



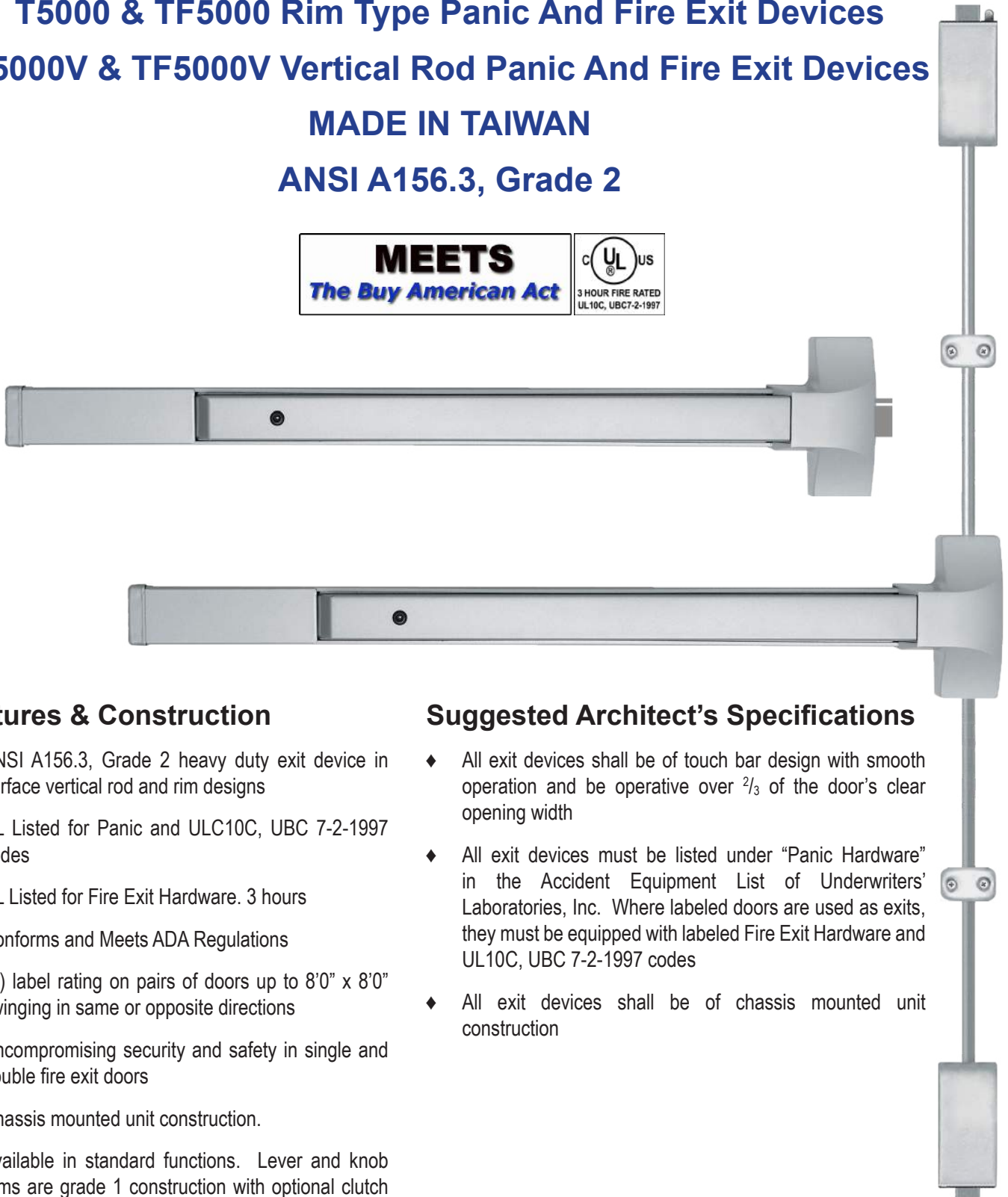
424 MULLION  
4 5/8" MIN. STILE

#### SINGLE DOOR



4 1/2" MIN.

## T5000 & TF5000 Rim Type Panic And Fire Exit Devices T5000V & TF5000V Vertical Rod Panic And Fire Exit Devices MADE IN TAIWAN ANSI A156.3, Grade 2



### Features & Construction

- ◆ ANSI A156.3, Grade 2 heavy duty exit device in surface vertical rod and rim designs
- ◆ UL Listed for Panic and ULC10C, UBC 7-2-1997 codes
- ◆ UL Listed for Fire Exit Hardware. 3 hours
- ◆ Conforms and Meets ADA Regulations
- ◆ (A) label rating on pairs of doors up to 8'0" x 8'0" swinging in same or opposite directions
- ◆ Uncompromising security and safety in single and double fire exit doors
- ◆ Chassis mounted unit construction.
- ◆ Available in standard functions. Lever and knob trims are grade 1 construction with optional clutch freewheeling mechanism. Rose covers 161 cut out

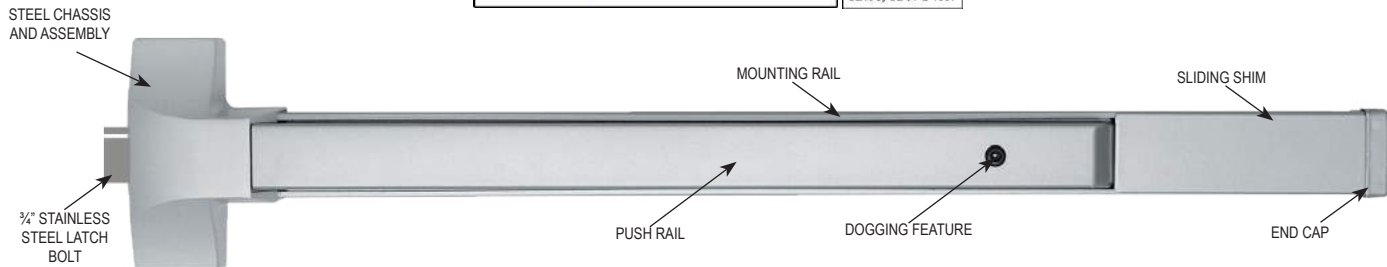
### Suggested Architect's Specifications

- ◆ All exit devices shall be of touch bar design with smooth operation and be operative over  $\frac{2}{3}$  of the door's clear opening width
- ◆ All exit devices must be listed under "Panic Hardware" in the Accident Equipment List of Underwriters' Laboratories, Inc. Where labeled doors are used as exits, they must be equipped with labeled Fire Exit Hardware and UL10C, UBC 7-2-1997 codes
- ◆ All exit devices shall be of chassis mounted unit construction

# T5000 & TF5000 Series

## MADE IN TAIWAN

### GRADE 2 Rim Type Exit Device

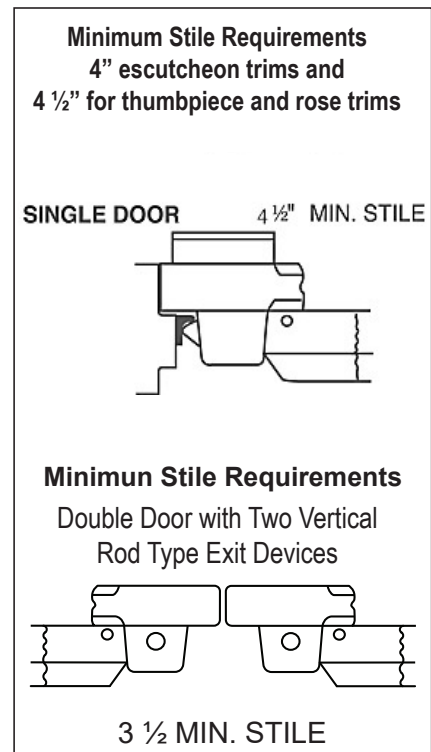


#### Specifications

<b>For Doors.....</b>	1 3/4" thick standard. 3 3/4" minimum stile width required for single or double door application using standard 938 strike and pull or lever trims
<b>Chassis.....</b>	Steel (Panic Grade), Steel (Fire Grade)
<b>Cover.....</b>	Covers stock hollow metal doors with 161-cutout
<b>Mounting.....</b>	Furnished standard with wood and machine screws. Available with thru-bolts on request. Thru-bolts are standard packaging on fire rated devices
<b>End Cap.....</b>	Steel construction
<b>Hand.....</b>	Non-handed, center hub
<b>Latch Bolt.....</b>	Stainless Steel 3/4" throw
<b>Spring.....</b>	Steel throughout
<b>ANSI Standard.....</b>	A156.3, Grade 2
<b>Rail Assembly.....</b>	Heavy gauge steel, painted
<b>Strike.....</b>	938 packed standard (See strike page)
<b>Dogging Feature.....</b>	Allen-type key furnished standard on non-fire labeled devices
<b>Mullion.....</b>	Available
<b>UL and ULC Listed.....</b>	T5000 Series for panic. TF5000 Series for fire exit hardware for all types of 3' x 7' single doors and 6' x 7' double doors for up to 3 hour fire labeled installations. Conforms to standards UL10C and UBC 7-2-1997 codes
<b>Finish.....</b>	Aluminum (ALUM), Stainless Steel (US32D)
<b>Anti-Microbial Coating.....</b>	Available on US32D only. Use part # <b>ANTB-EXIT</b>

#### DIMENSIONS

<b>Touchbar height to finished floor</b>	41" (1041 mm) at center
<b>Touchbar projection</b>	
Neutral	2 1/2" (64 mm)
Depressed	1 3/4" (45 mm)



MODEL	ACTUAL LENGTH	MAX CUT DOWN	DOOR SIZE
T5000EO36 and TF5000EO36	32"	6"	30" to 36" door width
T5500EO48 and TF5500EO48	39"	12"	31" to 48" door width



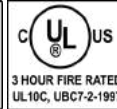
# T5000V & TF5000V Series

## MADE IN TAIWAN

### GRADE 2 Vertical Rod Type Exit Device



**MEETS**  
*The Buy American Act*



#### Specifications

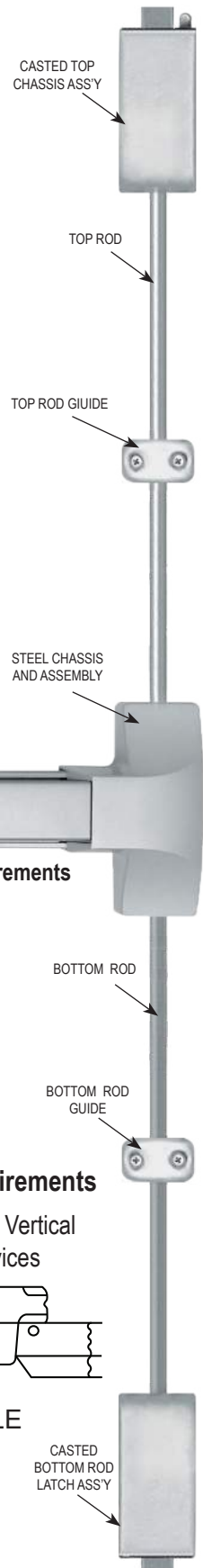
<b>For Doors.....</b>	1 3/4" thick standard. 3 3/4" minimum stile width required for single door application. 3 1/2" minimum stile width required for double door application. Lever and knob trims available
<b>Top &amp; Bottom Chassis.....</b>	Steel (Panic Grade), Steel (Fire Grade)
<b>Cover.....</b>	Covers stock hollow metal doors with 161 cutout
<b>Mounting.....</b>	Furnished standard with wood and machine screws. Thru-bolts are standard packaging on fire rated devices
<b>End Cap.....</b>	Steel construction
<b>Hand.....</b>	Non-Handed
<b>Latch Bolt &amp; Spring.....</b>	Stainless steel
<b>ANSI Standard.....</b>	A156.3, Grade 2
<b>Rail Assembly.....</b>	Heavy gauge steel, painted
<b>Strike.....</b>	See strike page
<b>Dogging Feature.....</b>	5mm Allen-type key furnished standard on non-fire labeled devices



<b>UL and ULC Listed.....</b>	T5000V Series for panic. TF5000V Series for fire exit hardware for all types of 6' x 7' double doors for up to 3 hour fire labeled installations. Conforms to standards UL10C and UBC 7-2-1997 codes.
<b>Finish.....</b>	Aluminum (Alum), US32D Stainless Steel
<b>Anti-Microbial Coating.....</b>	Available on US32D only. Use part # <b>ANTB-EXIT</b>
<b>Door size.....</b>	T5000V3684 and TF5000V3684 for 36" x 84" doors

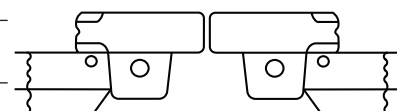
#### DIMENSIONS

<b>Touchbar height to finished floor</b>	41" (1041 mm) at center		
<b>Touchbar projection</b>			
Neutral	2 1/2" (64 mm)		
Depressed	1 3/4" (45 mm)		
<b>Panic grade top &amp; bottom latch case</b>	8 1/16" x 2 3/4" x 2 1/2" (205 mm x 70 mm x 63 mm)		
<b>Fire grade top latch case</b>	3 15/16" x 2 11/16" x 2 1/16" (100 mm x 68 mm x 52 mm)		
<b>Fire grade bottom latch case</b>	3 15/16" x 2 1/8" x 1 3/8" (100 mm x 54 mm x 35 mm)		
<b>Top and bottom rod length for 36" x 84" doors</b>	Top rod 38" (965 mm), Bottom rod 37 1/2" (953 mm)		
<b>Vertical rods</b>	1/2" (13 mm) Round tubing		
<b>MODEL</b>	<b>ACTUAL LENGTH</b>	<b>MAX CUT DOWN</b>	<b>DOOR SIZE</b>
T5000V3684	32"	6"	36" to 84" door width
TF5000V3684			



#### Minimum Stile Requirements

Double Door with Two Vertical Rod Type Exit Devices



3 1/2 MIN. STILE

# Trim Selection



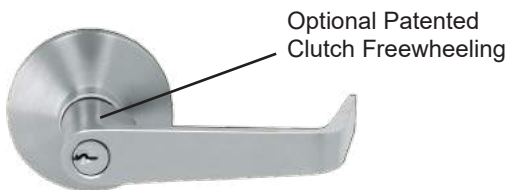
## LEVER DESIGN

### Non handed (Optional Clutch)

Tubular body hardened steel heavy duty tailpiece. For 1 3/4" doors. Available for fire and non-fire rated rim and vertical rod exit devices.

Rose diameter 3 1/2", lever length 4 3/4". Fits and covers 161 cutout.

Finishes: US26D, 10B, 3



<b>8000L</b>	<b>ENTRANCE</b> Key locks and unlocks lever. Operates as classroom function. ANSI Function (08)
<b>CLU5000L</b>	<b>CLUTCH FREE WHEELING (ENTRANCE)</b> Key locks and unlocks lever. Operates as classroom function. ANSI Function (08)
<b>8000S</b>	<b>STOREROOM</b> Key retracts latchbolt, otherwise always locked. ANSI Function (09)
<b>8000PAS</b>	<b>PASSAGE</b> Lever always operable and free. ANSI Function (14)
<b>8000DUM</b>	<b>DUMMY</b> Dummy trim. One sided. ANSI Function (02)

## KNOB DESIGN

### Non handed

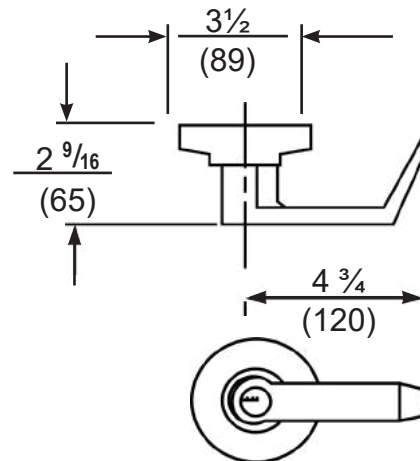
Tubular body hardened steel heavy duty tailpiece. For 1 3/4" doors. Available for fire and non-fire rated rim and vertical rod exit devices.

Rose diameter 3 1/2". Fits and covers 161 cutout.

Finishes: US32D, 10B, 3



<b>8000K</b>	<b>ENTRANCE</b> Key locks and unlocks lever. Operates as classroom function. ANSI Function (08)
<b>8000KSTR</b>	<b>STOREROOM</b> Key retracts latchbolt, otherwise always locked. ANSI Function (09)



**KEYWAY:** 6-Pin solid brass "C" keyway standard. Optional: Schlage E, Schlage C-K, Russwin D1-2-3-4, Corbin 59/60, Sargent LA-LB-LC, Falcon/Weiser E, Arrow A, Yale 8, Yale GA and Kwikset. Can also accept Medeco, Assa, Kaba and **Cal-Royal HSK** High Security Cylinders.

## PULL DESIGN

### **FOR RIM DEVICES ONLY**

Outside by pull and key.  
Key retracts latchbolt.  
ANSI Function (03)  
Covers 161 cutout.

### **FINISHES**

Powder Coated Aluminum (ALUM)

**5000NL**



**5000DTP**



Outside by pull only.  
Pull when dogged.  
ANSI Function (02)  
Covers 161 cutout.

**5000EOP**



Outside by plate only.  
ANSI Function (01)  
Covers 161 cutout.

# Optional Grade 1 Trims

## CLUTCH CYLINDRICAL LEVER

### Non-Handed Grade 1 (Clutch Style)

Cylindrical body hardened steel heavy duty tailpiece. For 1 3/4" and 2 1/4" doors. Prefix "THI" before Part # for 2 1/4" door thickness.

Available for fire and non-fire rated rim and vertical rod exit devices.

Rose diameter 3 1/2", lever length 4 3/4". Fits and covers 161 cutout.

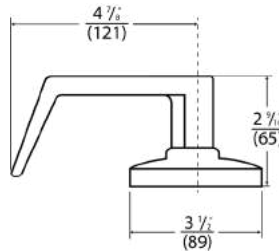
Finishes: US26D, US26, US3, US4, US10B, US10BE, US1

**\*GN DESIGN ONLY: ENT00L, ICENT00L, STR05L, ICSTR05L, PAS30L, DUM40L IN US32D FINISH, ALL STAINLESS STEEL EXTERIOR. INCLUDES GRADE 304SS LEVER AND ROSE**



**GN DESIGN**

Patented Clutch Freewheeling



- ENT00L or
- ICENT00L or
- ICSCENT00L4
- SARICENT00L (Sargent)
- RUSICENT00L (Corbin / Russwin)
- YALICENT00L (Yale)

- STR05L or
- ICSTR05L or
- ICSCSTR05L4
- SARICSTR05L (Sargent)
- RUSICSTR05L (Corbin / Russwin)
- YALICSTR05L (Yale)

PAS30L

DUM40L

### ENTRANCE

Key locks and unlocks lever. Operates as CLASSROOM FUNCTION. ANSI Function (08)

### STOREROOM

Key operates lever, otherwise always locked. ANSI Function (09)

### PASSAGE

Trim always operable and free. ANSI Function (14)

### DUMMY

Dummy trim. One sided ANSI Function (02)

**KEYWAY:** 6-Pin solid brass "C" keyway standard. Optional: Schlage E, Schlage C-K, Russwin D1-2-3-4, Corbin 59/60, Sargent LA-LB-LC, Falcon/Weiser E, Arrow A, Yale 8, Yale GA and Kwikset. Can also accept Medeco, Assa, Kaba and **Cal-Royal HSK** High Security Cylinders.

● (IC) **INTERCHANGEABLE CORE:** Interchangeable Core locks will accept compatible 6 or 7-Pin cores with **BEST, FALCON and ARROW.**

● (ICSC) **INTERCHANGEABLE CORE:** Indicates function available with **SCHLAGE, CORBIN/RUSSWIN, SARGENT and YALE Full Size Format** Interchangeable Core

KEYWAY	+	DESIGN	+	FUNCTION	+	FINISH
BEST, FALCON, & ARROW - SCHLAGE - CORBIN/RUSSWIN - SARGENT - YALE -		[ IC ICSC RUSIC SARIC YALIC ]		[ AT SPA TUB* AUG DAN LON TAC ]		[ ENT00L STR05L PAS30L DUM40L ]

**HOW TO ORDER IN LFIC**

Example: ICSCENT00L4 US26D  
in "SPA" design is  
ICSCSPAENT00L4 US26D

\*\*Note: Yale LFIC is only available in GN, AT, SPA lever designs | TUB\* is only available in SFIC.

## Other Lever Trim Designs

●● Available in SFIC & LFIC



**AT**

●● Available in SFIC & LFIC



**SPA**

● Available in SFIC



**TUB**

●● Available in SFIC & LFIC  
*\*except YALE LFIC*



**AUG**

●● Available in SFIC & LFIC  
*\*except YALE LFIC*



**DAN**

●● Available in SFIC & LFIC  
*\*except YALE LFIC*



**LON**

●● Available in SFIC & LFIC  
*\*except YALE LFIC*



**TAC**

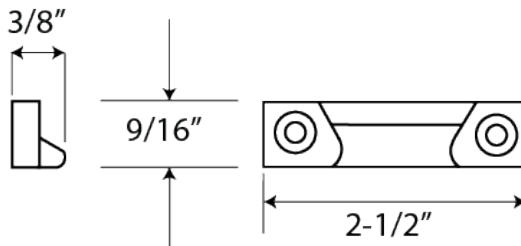
Anti-Microbial Coating available in US26D or US32D Only. Use part # "ANTB-TRIM" when ordering.

# Strikes & Accessories



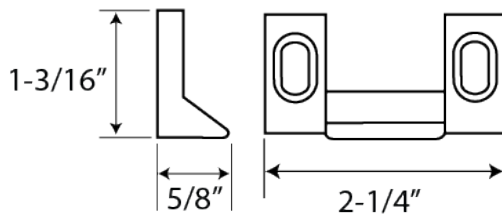
## Strikes for use with T5000V vertical rod exit device

All strikes are black nylon coated



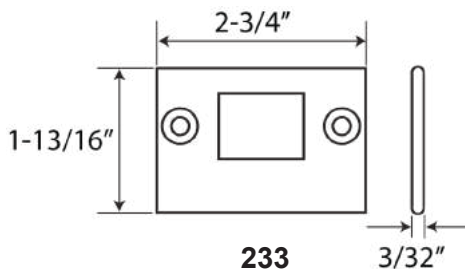
**221**

Standard for T5000V. Applied to surface of floor or to a flat threshold.  
Standard packaging.



**227**

Applied to surface of stop. No mortise required. Standard packaging.



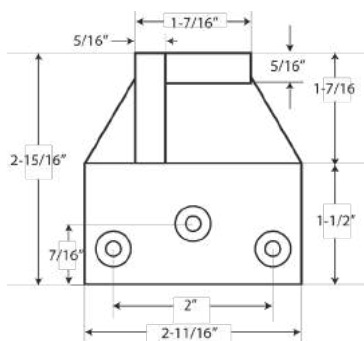
**233**

Bottom strike for TF5000V.  
Flush mounting stainless steel. Furnished with expansion shields.  
Requires mortise in the floor. Standard packaging.

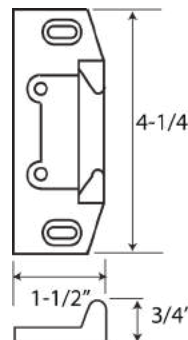
## Overlapping Strikes

**254**

Surface applied. Used on inactive leaf for device on active leaf of pair of doors without mullion.

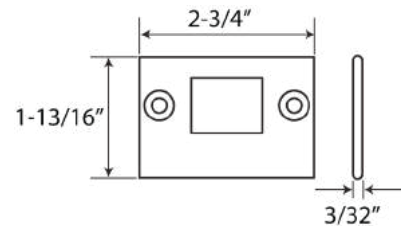


## Strikes for use with TF5000V vertical rod fire exit device



**245**

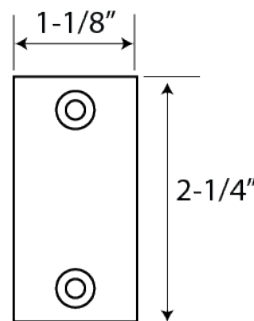
Surface applied for TF5000V.  
Standard packaging.



**233**

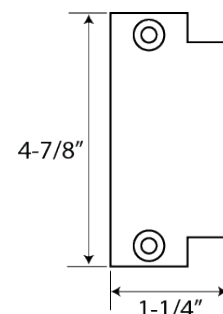
Bottom strike for TF5000V. Flush mounting stainless steel. Furnished with expansion shields. Requires mortise in the floor.  
Standard packaging.

## Additional Accessories



**LFF**

Lock front filler



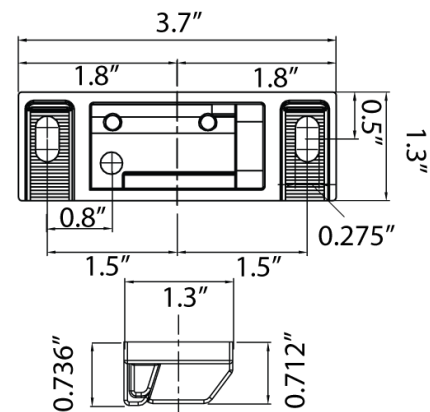
**SF**

Strike filler

## Strike for use with T5000 and TF5000 rim type exit devices

**938**

For T5000 & TF5000 surface applied.  
Standard packaging





# Fire Exit Hardware Selector



FIRE EXIT HARDWARE RATING			UL FIRE DOOR RATING
APPLICATION	MODEL #	MAXIMUM DOOR OPENING	(A) 3 HOUR
<b>SINGLE DOORS</b> Rim type	TF5000EO36	3'0" X 7'0"	✓
<b>PAIRS OF DOORS</b> Two surface mounted standard vertical rod type  a) Swinging in same direction b) Swinging in opposite direction ( double egress )	TF5000V3684 X TF5000V3684	6'0" X 7'0"	✓
	TF5000V3684 X TF5000V3684	6'0" X 7'0"	✓
<b>PAIRS OF DOORS</b> Two rim type with Mullion	TF5000EO36	6'0" X 7'0"	✓

All fire rated exit devices in all applications, are also labeled for (B) 1 ½ hour, (C) ¾ hour, (D) 1 hour, (E) ¾ hour.  
All fire exit hardware meet UL10C and UBC 7-2-1997 codes.

## HOW TO ORDER INFORMATION

### Exit device model number

#### Panic grade

T5000 E036 Rim type 36" door

T5000 V3684 Vertical rod type 36" x 84"

#### Fire grade

TF5000 E036 Rim type 36" door

TF5000 V3684 Vertical rod type 36" x 84"

- 1) Specify exit device model number according to size of door.
- 2) Specify trim selection.
- 3) Non-Handed
- 4) Specify finish:  
Alum - Powder coated to match US26D  
US32D Stainless Steel
- 5) On thru-bolt applications, fire rated vertical rod devices are packed with thru-bolts as standard feature. Thru-bolts are also available for other devices. To order thru-bolts add "SBN" to trim pack.

When ordering separately use following part #

Cal-Royal Part # 357 — Thru-bolts for rim devices, 6 pcs / pack.

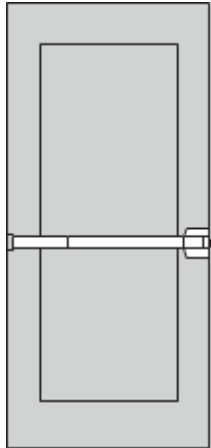
Cal-Royal Part # 369 — Thru-bolts for vertical rod devices, 14 pcs / pack.

**Ordering example:** T5000E036 ALUM X 8000L 26D  
T5000V 3684 32D X CLU5000L 26D

# T5000 & TF5000 Rim Type T5000V & TF5000V Vertical Rod Fire and Non-Fire Exit Devices ANSI A156.3 Grade 2 Selector Chart

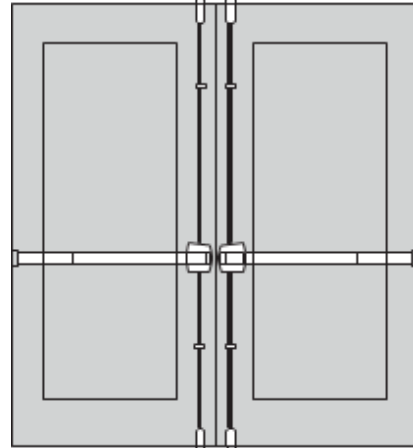


## SINGLE DOOR



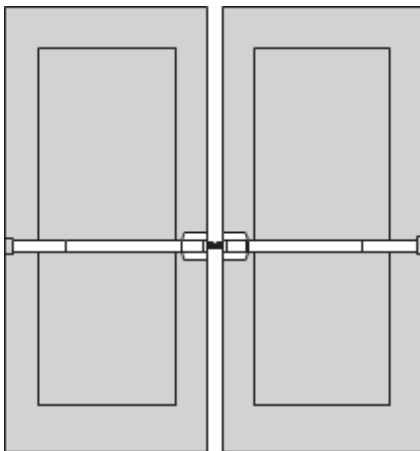
**Vertical rod type or Rim type** Surface applied 2 point lock. Surface application.

## PAIRS OF DOORS WITHOUT MULLION



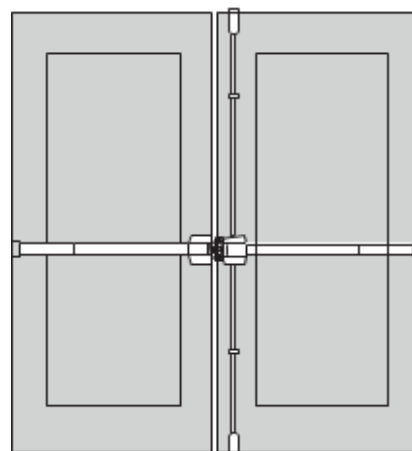
**2 Vertical rod type** Surface applied 2 point locking both doors. Each door active same direction. Do not use with overlapping astragal.

## PAIRS OF DOORS WITH MULLION



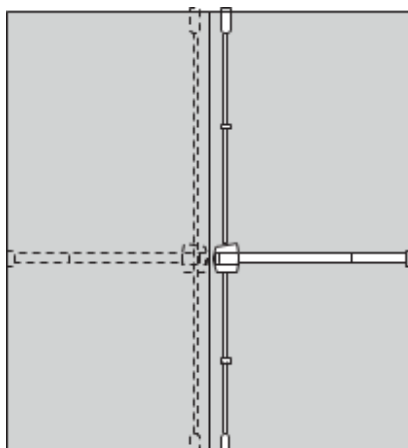
**2 Rim type with mullion** Two independent active doors with full double door openings when required. Same direction.

## PAIRS OF DOORS WITHOUT MULLION



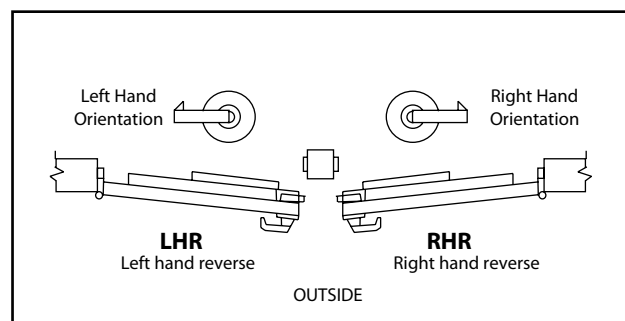
**1 Vertical rod and 1 rim type** Both devices are surface applied. A coordinator and overlapping strike is recommended.

## PAIRS OF DOORS WITHOUT MULLION



**2 Vertical rod type** Double egress surface applied. 2 point locking both doors opposite directions.

## HANDING



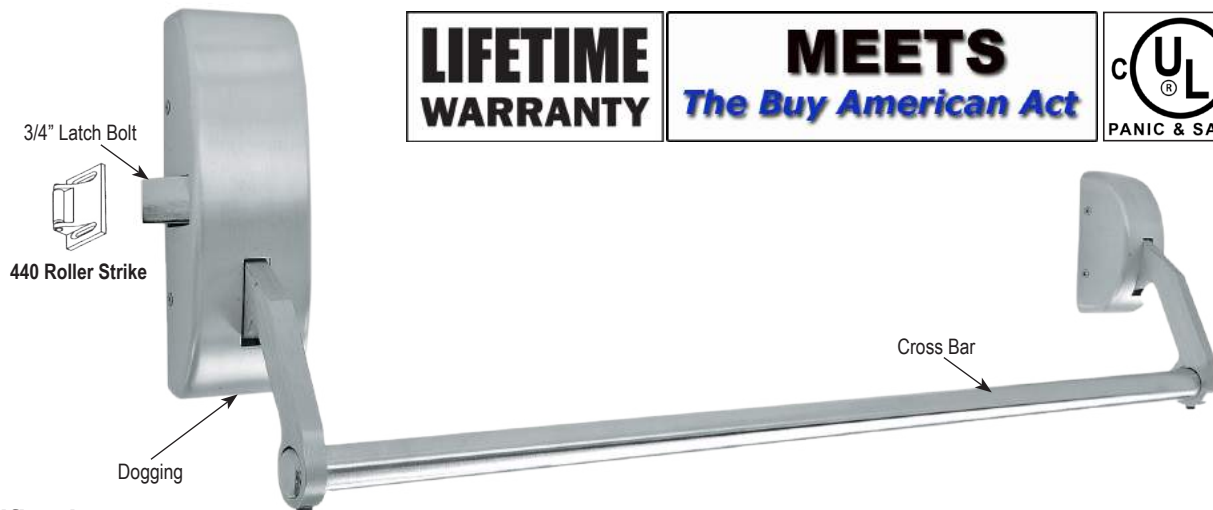
## CAL-ROYAL PRODUCTS, INC.

6605 FLOTILLA ST, COMMERCE, CA 90040 U.S.A.

TEL: (323) 888-6601 FAX: (323) 888-6699

Website: cal-royal.com • Email: sales@cal-royal.com

## 4400 Series Rim Type Panic Exit Device



**LIFETIME  
WARRANTY**

**MEETS**  
*The Buy American Act*



### Specifications

<b>For Doors.....</b>	1 3/4" thick standard. 4 1/2" minimum stile width required for single or double door application using standard 440 strike and pull lever, thumbpiece and escutcheon trims
<b>Chassis.....</b>	Non-ferrous Alloy. (Panic Grade)
<b>Cover.....</b>	Non-ferrous Alloy. Covers stock hollow metal doors with 161 cut out
<b>Mounting.....</b>	Furnished with wood and machine screws. Available thru-bolts on request
<b>Hand.....</b>	Handed, Reversible, Specify handing for convenience
<b>Latch Bolt.....</b>	Stainless Steel 3/4" throw
<b>Spring.....</b>	Stainless Steel throughout
<b>ANSI Standard.....</b>	A156.3, Grade 2
<b>Cross Bar.....</b>	1" Dia. Steel, 0.058" thick for 36" or 48" wide doors
<b>Strike.....</b>	Roller type
<b>Dogging Feature.....</b>	Allen-type key furnished standard
<b>Mullion.....</b>	Available
<b>UL and ULC Listed.....</b>	4400 Series for panic
<b>Finish.....</b>	US26D Satin Chrome, Dark Bonze Duranodic (DURO)
<b>Anti-Microbial Coating.....</b>	Available on US26D only. Use part # <b>ANTB-EXIT</b>
<b>Door Size.....</b>	4400EO36 for 36" doors 4420EO48 for 48" doors

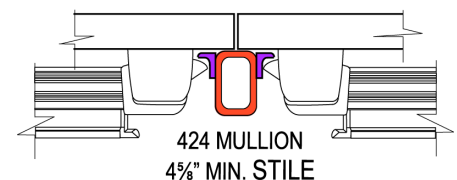
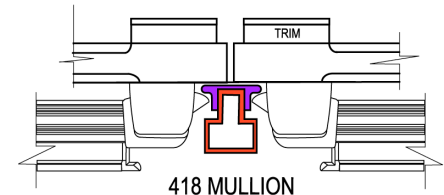
### DIMENSIONS

<b>Touchbar height to finished floor</b>	36 1/2" (927 mm) at center
<b>Latch height to finished floor</b>	41" (1041 mm)
<b>Touchbar projection</b>	
Neutral	4 3/4" (121 mm)
Depressed	3" (76 mm)
<b>Main case</b>	8 1/2" x 2 5/8" x 2" (216 mm x 67 mm x 51 mm)
<b>End case</b>	4 7/8" x 2 1/8" (124 mm x 54 mm)
<b>Cross Bar Length</b>	30" for 36" door, 42" for 48" door

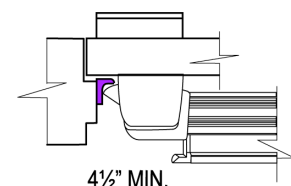
### 4 1/2" Minimum Stile Requirements

#### DOUBLE DOOR

4 1/2" MIN. STILE



#### SINGLE DOOR



# Trim Selection



## ESCUTCHEON LEVER DESIGN

### CONSTRUCTION

- Rigid, non clutch mechanism.
- Thrubolted design.
- Non-handed design. Easily field reversible.
- Hardened steel heavy duty tailpiece.
- Standard 6-Pin Schlage "C" keyway rim cylinder included.

### ESCUTCHEON DIMENSIONS

2 3/4" width x 8 1/2" length. Lever length: 4 3/4".  
Fits and covers 2 1/8" 161 cutout

**ESC44-00 or**  
**IC** **ICESC4400 or**  
**IC** **ICSCESC4400**

### ENTRANCE

Rigid Entrance, key locks or unlocks escutcheon trim  
ANSI Function (08)  
Operates as classroom function



Anti-Microbial Coating available in US26D Only.  
Use part # "**ANTB-TRIM**" when ordering.

**ESC44-30**

### PASSAGE

Trim always operable and free  
ANSI Function (14)

**ESC44-40**

### DUMMY

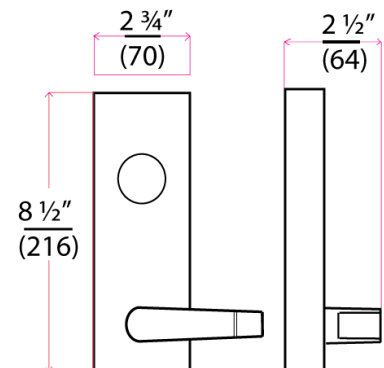
Dummy Escutcheon trim  
ANSI Function (02)

## THUMBPIECE TRIM

**THP4400 or**  
**IC** **ICTHP4400**  
**IC** **ICSCTHP4400**

### ENTRANCE

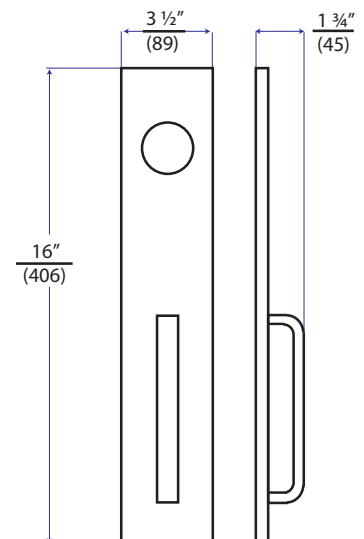
Key locks or unlocks thumbpiece.  
(Operates as classroom function)  
ANSI Function (05)



**THP4430**

### PASSAGE

Trim always operable and free  
ANSI Function (15)



### ❖ ESCUTCHEON AND THUMBPIECE ❖

**DOOR THICKNESS:** Standard 1 3/4"

**FINISHES:** US26D Satin Chrome, DURO

**KEYWAY:** 6-Pin solid brass "C" keyway Rim Cylinder standard.  
Optional: Sargent LA-LB-LC and Kwikset.

**IC (IC) INTERCHANGEABLE CORE:** Interchangeable Core locks will accept compatible 6 or 7-Pin cores with BEST, FALCON and ARROW.

**IC (ICSC) INTERCHANGEABLE CORE:** Indicates function available with Schlage Full Size Format Interchangeable Core.



# POWER SUPPLIES FOR ELECTRIFIED EXIT DEVICES



The CRPS1N is a heavy duty, high quality, low cost solution for powering a single latch retracting exit device. The solid-state design insures years of trouble-free operation. The power supply delivers raw, unregulated DC current which is ideal for the extreme in-rush requirement of most solenoid driven electric latch retracting exit devices. The power supply comes housed in a sturdy, yet compact metal enclosure.

## CRPS1N



### Features:

- Power supply delivers the necessary high current in-rush for a single exit device
- Solid-state design eliminates problems associated with mechanical relays
- Single input/output
- No hassle 3-year warranty



### Specifications:

- Input voltage – 120V AC, 60 Hz
- Output voltage – 24V DC unregulated @ 1A
- Temperature range: 0 to 49° C; 32 to 120° F
- Maximum humidity: 85%
- 1 Solid-State input / output (input triggered by dry contact)
- LEDs – RED = Power indicator  
GREEN = Channel indicator
- **Enclosure dimensions: 11" x 11" x 4"**

The CRPS2 Series power supplies are high quality, cost effective solution for powering two electric latch-retracting exit devices. These power supplies provide the necessary surge current that most latch-retracting exit devices require. The CRPS2 Series offers features found on power supplies costing much more; and the solid-state design and careful attention to detail make the CRPS2 Series ideal choice for the discerning user who requires a power supply that can offer years of trouble-free operation.

### Features:

- Delivers the necessary in-rush current to power two latch pullback exit devices.
- Two independent inputs / outputs
- Solid-state design eliminates problems associated with mechanical relays
- Thermal overload sensing reduces risk of failure due to overheating
- Fire alarm disconnect link
- Intelligent short circuit detection detects shorts much faster than fuses and isolates the short to the individual output
- Removable Euro-style terminal blocks allow for easy installation
- No hassle 3-year warranty



## CRPS2 CRPS2BB



- **CRPS2 Enclosure dimensions: 11" x 11" x 4"**
- **CRPS2BB Enclosure dimensions: 13" x 15.5" x 5"**

### Additional Features (CRPS2BB Only):

- Efficient battery backup / charging circuitry with zero voltage drop at power loss
- Solid state reverse polarity protection for battery connections
- Audible alert when sensing AC power failure & low battery (batteries not included)

### Specifications:

- Input Voltage – 120V AC, 60 Hz
- Output Voltage – 24V DC regulated @ 2A
- Temperature Range – 0° to 120°F
- 2 Solid-State input / output (input triggered by dry contact)
- Power Tap - Continuous 24V DC @ .5A
- LEDs – RED = Power indicator  
GREEN = Output indicator  
ORANGE = Battery Output Indicator

The CRPS202 and CRPS202B (Battery Backup) are regulated, linear power supplies rated at 2 Amps continuous and are specifically designed to power electrified mortise and cylindrical locks, electric strikes, mag locks, and motorized exit devices.



## CRPS202 CRPS202B



### Features:

- Built to run up to 2 locks, exit trim and LP Motor Kits
- Interruption-free battery back-up
- Door mounted LED Power Indicator
- Over-voltage protection
- Regulated, independent battery charging
- Automatic uninterrupted backup circuit
- Fire alarm link
- No hassle 3-year warranty
- **CRPS202 Enclosure dimensions: 11" x 11" x 4"**
- **CRPS202B Enclosure dimensions: 13" x 15.5" x 5"**

### Specifications:

- Input voltage – 120V AC, 60 Hz
- Output voltage – 24V DC regulated @ 2A
- Temperature range: 0 to 49° C; 32 to 120° F
- Maximum humidity: 85%
- 2 Solid-State input / output (input triggered by dry contact)
- LEDs – RED = Power indicator  
GREEN = Output indicator  
ORANGE = Battery Output Indicator

# POWER SUPPLIES FOR ELECTRIFIED EXIT DEVICES



The CRSW3 power supply is a low cost, regulated switching power supply. It is designed specifically to supply power to low current DC devices such as mortise locks, cylindrical locks and electric strikes. The CRSW3 supplies 2.4A @ 27V DC and provides (3) non-fused outputs. The CRSW3 comes housed in a 10" x 10" x 4" sturdy metal enclosure.

## CRSW3



### Features:

- Adjustable output voltage from 24-27VDC
- No hassle 3-year warranty

### Specifications:

- Input voltage – 110 / 220V AC
- Output voltage – 2.4A @ 27V DC
- (3) Non-fused outputs
- *Enclosure dimensions: 10" x 10" x 4"*

The CRPS5 power supply is a regulated, linear power supply rated at 5 Amps @ 24V DC. Its state-of-the-art, solid-state design offers a flexible and cost effective solution to powering and controlling low current DC locking devices. It is available in 4, 6, and 8 I/O models.



**CRPS5**  
(5 Amps, 1 I/O)



### Features:

- Adjustable output voltage from 24-27V DC
- Independent, Battery backup charging circuit at 27.6V with Solid-state design and very low voltage loss
- No hassle 3-year warranty

### OPTIONS:

**CRPS5-4** (1.25 Amps, 4 I/O)  
**CRPS5-6** (0.83 Amps, 6 I/O)  
**CRPS5-8** (0.625 Amps, 8 I/O)

### Specifications:

- Input voltage - 110V AC
- Output voltage - 24V DC @ 5A continuous current
- Up to (8) Solid-state inputs (specify dry contact or voltage trigger)
- Up to (8) Solid-state outputs
- Thermal auto-resettable fuses

The CRPS440B and CRPS480B (Battery Backup) are regulated, linear power supplies rated at 4 Amps @ 24V DC to (4) or (8) PTC fused outputs. It also provides (4) or (8) solid-state input triggers, protects system relays from shorts, grounds and surges. These power supplies may also be used to power electrified mortise and cylindrical locks, electric strikes, mag locks, motorized exit devices.



**CRPS440B**  
**CRPS480B**



### Features:

- Built to run up to 4 or 8 locks, exit trim and LP Motor Kits
- Interruption-free battery back-up
- Door mounted LED Power Indicator
- Over-voltage protection
- Regulated, independent battery charging
- Fire alarm link
- No hassle 3-year warranty
- *Enclosure dimensions: 13" x 15.5" x 5"*

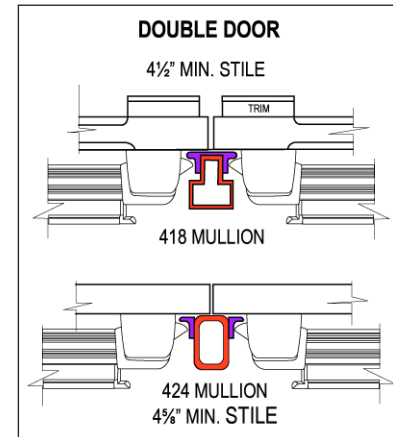
### Specifications:

- Input voltage – 120V AC, 60 Hz
- Output voltage – 4A @ 24V DC
- Temperature range: 0 to 49° C; 32 to 120° F
- Maximum humidity: 85%
- **CRPS404B:** 4 Solid-State input / output (input triggered by dry contact)
- **CRPS480B:** 8 Solid-State input / output (input triggered by dry contact)
- LEDs – RED = Power indicator  
GREEN = Output indicator  
ORANGE = Battery Output Indicator

# Removable and Lockable Mullions



2" x 3" x 8' Steel Tubing Round Corner, Iron Construction with Iron Top and Bottom Retainers.  
To be used with two Rim Type Devices on two independent active doors with full double door openings.



Mullion storage kits are now available providing a safe and convenient way to store the mullion when removed. Use part # **WALLKIT** when ordering.

Full Kit includes:

- (1) Top Mullion Holder
- (1) Bottom Bracket
- (8) Machine Screws
- (8) Expansion Anchors
- \*\*Mullion not included**

**Note: Wallkit is applicable to UL424 & LCKUL424 Only.**

MODEL #	DESCRIPTION
<b>NON-FIRE RATED APPLICATIONS</b>	
<b>418</b>	96" T-Shaped Removable Extruded Aluminum Mullion with top and bottom retainers.
<b>FIRE-RATED APPLICATIONS</b>	
<b>424</b>	96" Rectangular Steel Fire Exit Mullion with top and bottom retainers.
<b>UL424</b>	<b>UL-Listed</b> Fire Exit Mullion
<b>LCKUL424</b>	Lockable, <b>UL-Listed</b> Fire Exit Mullion. <b>Schlage C</b> keyway.
<b>IC-LCKUL424</b>	Lockable, <b>UL-Listed</b> Fire Exit Mullion. Small Format Interchangeable core for <b>BEST, FALCON</b> and <b>ARROW</b>
<b>ICSCLOCKUL424</b>	Lockable, <b>UL-Listed</b> Fire Exit Mullion. Full Size Format <b>Schlage</b> Interchangeable Core
<b>ACCESSORIES</b>	
<b>418 BRACKETS</b>	Top and bottom brackets with screw for 418 mullion
<b>424 BRACKETS</b>	Top and bottom brackets with screw for 424 mullion
<b>UL424 BRACKETS</b>	Top and bottom brackets with screw for UL424 mullion
<b>LCKUL424-TF</b>	Top Fitting Kit to convert UL424 to LCKUL424
<b>WALLKIT</b>	Wall Mounted Mullion Storage Kit for UL424 and LCKUL424

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# THRESHOLDS + DOOR WEATHER SEALS



THRESHOLDS +  
DOOR WEATHER SEALS

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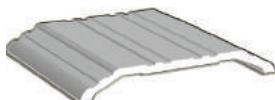
#### F. Perimeter Gasketing

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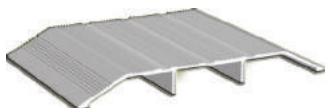
## SADDLE THRESHOLDS



**CR2704**  
1/2" H x 4" W



**CR2715**  
1/2" H x 5" W



**CR27105**  
1/2" H x 5" W



**CR2726**  
1/2" H x 6" W

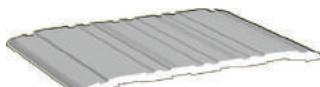


**CR2767**  
1/2" H x 7" W

Testing/Ratings:



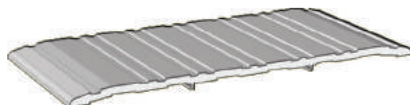
**CR3704**  
1/4" H x 4" W



**CR3715**  
1/4" H x 5" W

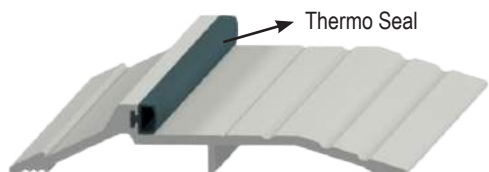


**CR3726**  
1/4" H x 6" W

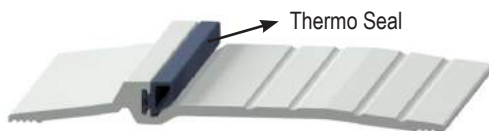


**CR3767**  
1/4" H x 7" W

## PANIC SADDLE THRESHOLDS WITH THERMO SEAL



**PST-200**  
7/8" H x 5" W



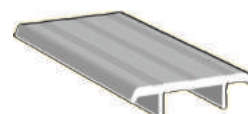
**PST-201**  
1/2" H x 5" W

Testing/Ratings:

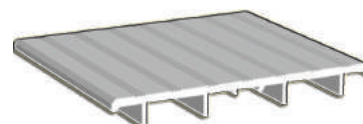


## CARPET SPECIAL PURPOSE THRESHOLDS

Testing/Ratings:

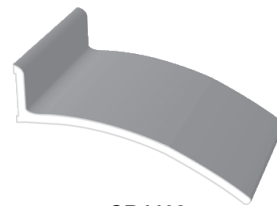


**CR3361**  
7/16" H x 1 3/4" W CARPET  
THRESHOLD



**CR33641**  
7/16" H x 4" W CARPET  
THRESHOLD

## OVERHEAD RAIN DRIP WEATHERSTRIP



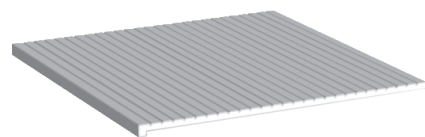
Testing/Ratings:



**CR4462**  
2 1/2" DOOR TOP  
DRIP EDGE

## SILL NOSING

Testing/Ratings:



**CR4243**  
3 1/2" WIDE  
SILL NOSING

FINISHES: ALUMINUM, DARK BRONZE. OTHER FINISHES AVAILABLE UPON REQUEST.



## THRESHOLDS COMPARISON CHART

SIZE	CAL-ROYAL	HAGER	REESE	NGP	PEMKO	ZERO
<b>SADDLE THRESHOLDS</b>						
1/2" H x 4" W	CR2704	404S	S424A/D	424	170A	654
1/2" H x 5" W	CR27105	412S	S425A/D	325	1710A	655
1/2" H x 5" W	CR2715	412S	S425A/D	325	171A	655
1/2" H x 6" W	CR2726	415S	S426A/D	426	172A	656
1/2" H x 7" W	CR2767	416S	S427A/D	427	176A	657
1/4" H x 4" W	CR3704	403S	S404A/D	413	270A	544
1/4" H x 5" W	CR3715	413S	S405A/D	513	271A	545
1/4" H x 6" W	CR3726	417S	S406A/D	613	272A	546
1/4" H x 7" W	CR3767	430S	S407A/D	713	276A	547
<b>PANIC EXIT SADDLE THRESHOLDS WITH THERMO SEAL</b>						
7/8" H x 5" W	PST-200	541S	S487	804	177AT/DT	560
1/2" H x 5" W	PST-201	520S	S483	896	2005AT/DT	65
<b>CARPET SPECIAL PURPOSE THRESHOLD</b>						
7/16" H x 1 3/4" W	CR3361	505S	S565A/D	414	236A	1682
7/16" H x 4" W	CR33641	506S	S563A/D	404	2364A	1684
<b>OVERHEAD RAIN DRIP WEATHERSTRIP</b>						
2 1/2" W	CR4462	810S	R201A/D	16A	346C	142
<b>SILL NOSING</b>						
3 1/2" W	CR4243	---	---	---	324A	---

.....

### HOW TO ORDER Example: CR270436 ALUM

Model Number \_\_\_\_\_

Size / Length: \_\_\_\_\_

» 36 - 36"  
» 48 - 48"  
» 72 - 72"  
» 96 - 96"

Finish: \_\_\_\_\_

» ALUM  
» DURO

Size / Length for CR4462 Only:  
» 36 - 36'  
» 40 - 40'  
» 52 - 52'  
» 76 - 76'

### ADDITIONAL ACCESSORIES FOR PANIC SADDLE THRESHOLDS (PST-200 & PST-201)

ITEM #	SIZE	DESCRIPTION	FINISH
INS200-36	36"	Thermoseal Insert for PST-200	BLACK
INS200-48	48"		
INS200-72	72"		
INS200-96	96"		
INS201-36	36"	Thermoseal Insert for PST-201	
INS201-48	48"		
INS201-72	72"		
INS201-96	96"		
SFH101.5	#10 x 1 ½" PFHWS for PST-200		ALUM, DURO
SFH101	#10 x 1" PFHWS for PST-201		

## GENERAL INFORMATION

Our Door Weather Seal products are engineered and tested for durability and reliable performance to ensure that they meet or exceed the industry standards, providing energy efficient door solution that restricts air, light, smoke, and insects from around the opening.

## TESTING/RATINGS



UL10C Fire Rated - Positive Pressure



UL1784 Smoke Tested



ASTM E90 Sound Tested



UL (Underwriters Laboratory)  
- File R26381



ASTM E283 Air Leakage Tested



BHMA Certified

## MATERIALS AND FINISHES

### Metals:

Extruded Metal Products are made from 6063 Aluminum Alloy.

### Standard Finishes:

- » **A** - Mill Finish Aluminum
- » **D** - Dark Bronze Anodized Aluminum
- » **B** - Black (*for Adhesive Weatherstrips*)
- » **W** - White (*for Adhesive Weatherstrips*)
- » **AN** - Mill Finish Aluminum with Neoprene Insert
- » **DN** - Dark Bronze Anodized Aluminum with Neoprene Insert
- » **AV** - Mill Finish Aluminum with Vinyl Insert
- » **DV** - Dark Bronze Anodized Aluminum with Vinyl Insert

*\*Other colors are available with factory lead time.*

**Inserts:** Some models have gasket inserts (seals). See below for all insert (seal) designations.

- » **N** - Neoprene
- » **NB** - Nylon Brush
- » **S** - Silicone Seal
- » **V** - Vinyl

## PRODUCT DESCRIPTION

- » **ADB** - Automatic Door Bottoms
- » **BWR** - Brush Weatherstrips
- » **BTSR** - Door Bottom Sweeps with Rain Drip
- » **BTS** - Door Bottom Sweeps
- » **BTN** - Door Bottom Sweeps (with Neoprene Insert)
- » **DSR** - Door Shoes with Rain Drip
- » **DS** - Door Shoes
- » **C** - Adhesive Weatherstrips
- » **PG** - Perimeter Gasketing

## HOW TO ORDER

**Example: ADB-701AN-36**

Model Number

Finish:

» A, D, B, W, AN, DN, AV, or DV

Size / Length:

- » 36 - 36"
- » 48 - 48"
- » 84 - 84"
- » 96 - 96"

Size / Length for Adhesive Weatherstrips:

- » 17 - 17'
- » 25 - 25'
- » 204 - 204'
- » 510 - 510'

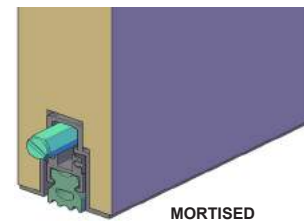
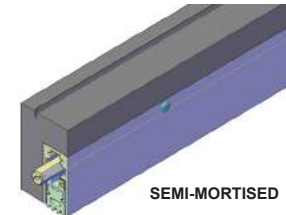
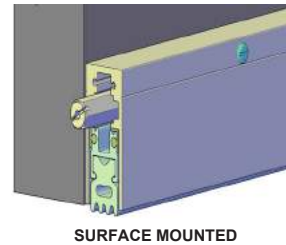
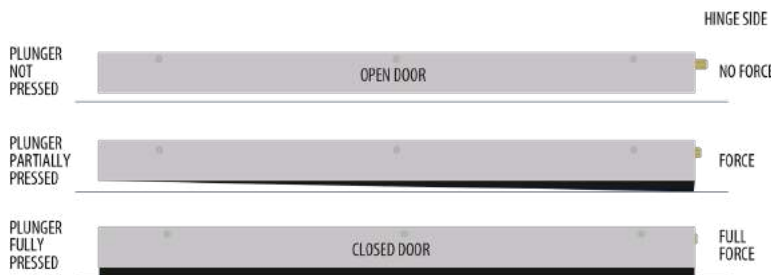
Size / Length for Perimeter Gasketing:

- » 3684 - 1 piece @ 36" + 2 pieces @ 84"
- » 4884 - 1 piece @ 48" + 2 pieces @ 84"
- » 4896 - 1 piece @ 48" + 2 pieces @ 96"
- » 7284 - 1 piece @ 72" + 2 pieces @ 84"
- » 7296 - 1 piece @ 72" + 2 pieces @ 96"

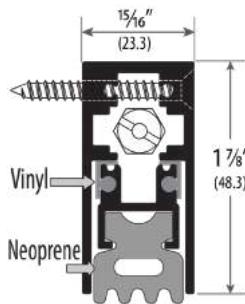
## SPECIFICATIONS

- » Automatic Door Bottoms are made from Extruded Aluminum combined with Neoprene or Vinyl seals.
- » It provides an efficient seal that blocks out air, smoke, sound, and fire.
- » Available in Surface Mounted, Semi-Mortised and Mortised Applications.
- » It can be installed on either wood or hollow metal doors; or as specified on each model.
- » Non-Handed, Reversible for Left or Right Hand Installation.
- » Low closing force; Slotted holes for adjustment.
- » Maximum cut should not be closer to 1 ½" to the set screw.

### Testing/Ratings:



- » The drop bar mechanism prevents the seal from dragging along the floor or threshold while the door is being closed.

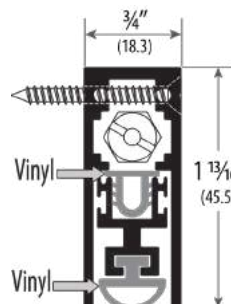


**ADB-701**

Finish Options: AN, DN  
Length Available: 36", 48"  
Max. Drop: ⅞" (22.2mm)

Heavy Duty, **Semi-Mortised or Surface Mounted Application**  
for use with Wood or Hollow Metal Doors  
Supplied with Closed Cell Sponge **Neoprene**

Comes Standard with:  
#8 x 1 ½" Truss PHSMS, and  
#8 x 1 ½" Truss FHSMS

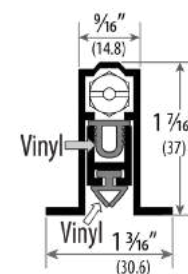


**ADB-702**

Finish Options: AV, DV  
Length Available: 36", 48"  
Max. Drop: ¾" (19.1mm)

Regular Duty, **Semi-Mortised or Surface Mounted Application**  
for use with Wood or Hollow Metal Doors  
Supplied with Solid **Vinyl** Extrusion

Comes Standard with:  
#8 x 1 ½" Truss PHSMS, and  
#8 x 1 ½" Truss FHSMS



**ADB-703**

Finish Options: AV, DV  
Length Available: 36", 48"  
Max. Drop: ¾" (19.1mm)

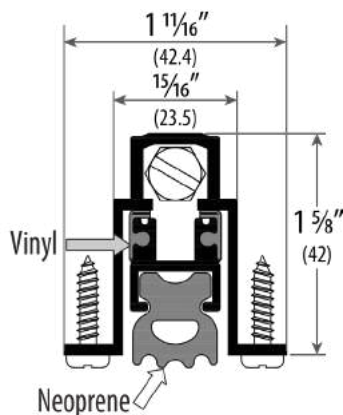
Light Duty, **Mortised Applications.**  
for use with Wood Doors.  
Supplied with **Vinyl** Seal.

Comes Standard with #6 x ¾" PPHSDS

**Note: Products shown in this section are not drawn to scale. | Available Finishes: AN** (Mill Finish Aluminum with Neoprene Insert) | **DN** (Dark Bronze Anodized Aluminum with Neoprene Insert) | **AV** (Mill Finish Aluminum with Vinyl Insert) | **DV** (Dark Bronze Anodized Aluminum with Vinyl Insert)

## AUTOMATIC DOOR BOTTOMS

### Testing/Ratings:



### ADB-704

Finish Options: AN, DN

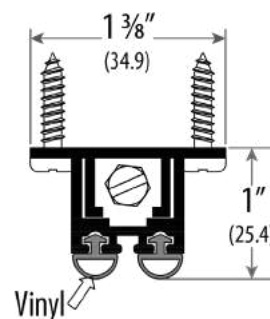
Length Available: 36", 48"

Max. Drop: 7/8" (22.2mm)

Heavy Duty, **Mortised** Applications  
for use with Wood Doors

Supplied with Closed Cell Sponge **Neoprene**

Comes Standard with #6 x 3/4" PPHSDS



### ADB-705

Finish Options: AV, DV

Length Available: 36", 48"

Max. Drop: 1/2" (12.7mm)

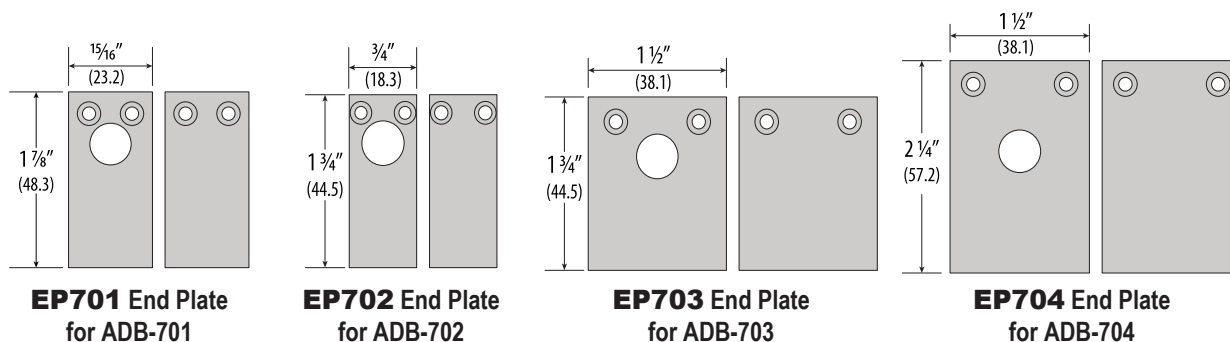
Regular Duty, **Mortised** Applications  
for use with Hollow Metal Doors

Supplied with **Vinyl** Seal

Not supplied with End Plates

Comes Standard with #6 x 3/4" PPHSDS

**Note:** Products shown in this section are not drawn to scale. | Available Finishes: **AN** (Mill Finish Aluminum with Neoprene Insert) | **DN** (Dark Bronze Anodized Aluminum with Neoprene Insert) | **AV** (Mill Finish Aluminum with Vinyl Insert) | **DV** (Dark Bronze Anodized Aluminum with Vinyl Insert)

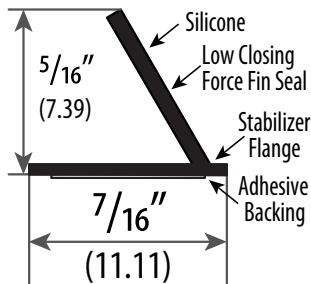
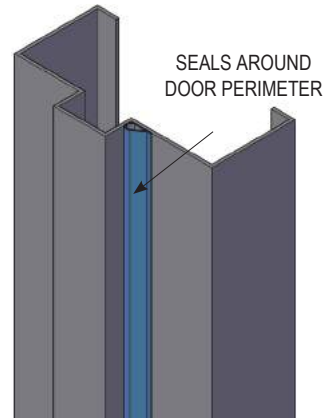


- » Anodized Aluminum plates at 0.063" thick.
- » End Plates are available for both ends and can easily be removed without taking door off the frame.
- » All Automatic Door Bottom models are provided with end plates (except ADB-705) with screws to protect the mechanism and for aesthetics.



## ADHESIVE WEATHERSTRIP SPECIFICATIONS

- » Adhesive Weatherstrips are made from Silicone Rubber with 3M Adhesive Tape that can handle various applications and high temperature (effective between -58°F and 450°F).
- » High Quality Self Adhesive with strong initial adhesion and long term holding power.
- » Provides a simple and cost-effective way to create a seal around your door frame.
- » Non-Toxic and Self-Extinguishing; Resistant to sunlight, ozone, oxidation, weather, water and flames.
- » Impermeable to mildew and fungus; will not degenerate under normal exposure.
- » Used for Wood or Hollow Metal Frames.

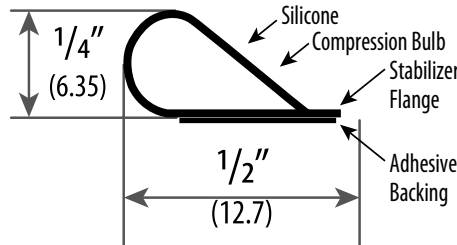


**C-440**

### Testing/Ratings:



Finish Options: B, W  
Length Available: 17', 25', 204', 510'  
Seal begins compressing at  $\frac{5}{16}$ ".  
Compresses to seal up to a  $\frac{1}{16}$ " gap.  
Designed for tighter frames.  
Demonstrates extremely low closing force.

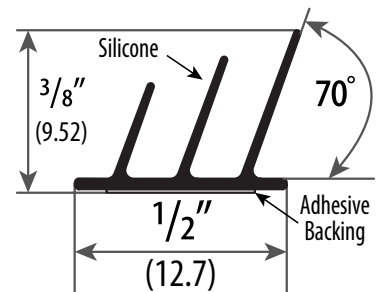


**C-880**

### Testing/Ratings:



Finish Options: B, W  
Length Available: 17', 25', 204', 510'  
Seal begins compressing at  $\frac{1}{4}$ ".  
Compresses to seal up to a  $\frac{1}{16}$ " gap.



**C-0773**

### Testing/Ratings:



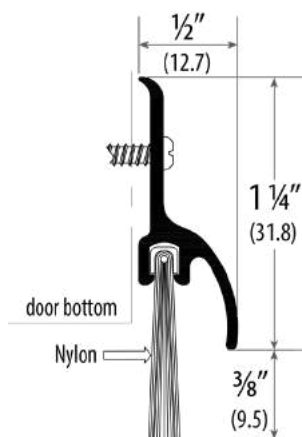
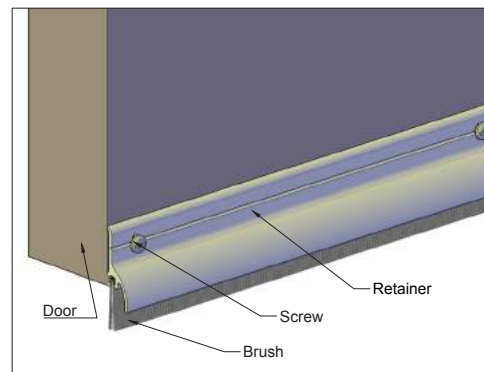
Finish Options: B, W  
Length Available: 17', 25', 204', 510'  
Seal begins compressing at  $\frac{3}{8}$ ".  
Compresses to seal up to a  $\frac{1}{16}$ " gap.  
Triple-Fin designed to block light and sound.

Note: Products shown in this section are not drawn to scale. | Available Finishes: B (Black) | W (White)

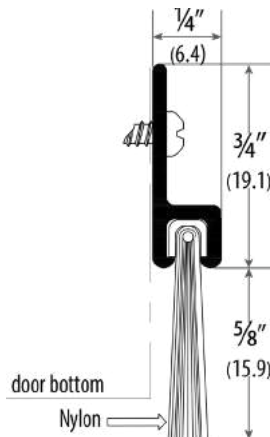
## BRUSH WEATHERSTRIP SPECIFICATIONS

- » Brush Weatherstrips are designed to seal the gap around the door, between the bottom of the door, and the top of the threshold or floor surface.
- » Energy efficient; prevents heat loss and infiltration of sound, light, drafts, insects, moisture, smoke or fire.
- » It consists of high quality Nylon Brush encased in Extruded Aluminum Seal Retainers.
- » These products can be used on either Wood or Hollow Metal doors (in-door sweep, jamb / header gasketing, and split astragal) applications.
- » Punched with slotted holes for adjustment.
- » Also available with a rain drip design (**BWR-301**), which deflects water.

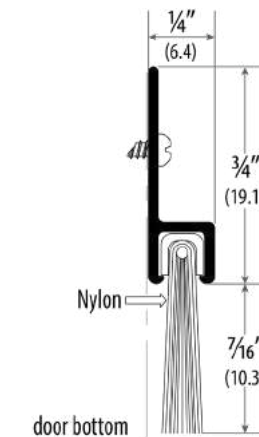
### Testing/Ratings:



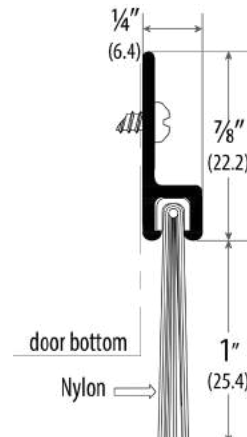
**BWR-301**



**BW-302**



**BW-303**



**BW-305**

Finish Options: A, D  
Length Available: 36", 48"  
Width: 1/2" (12.7mm)  
Profile Height: 1 1/4" (31.8mm)  
Total Height: 1 5/8" (41.3mm)  
Comes Standard with:  
#6 x 5/8" PPHSMS

Finish Options: A, D  
Length Available: 36", 48"  
Width: 1/4" (6.4mm)  
Profile Height: 3/4" (19.1mm)  
Insert Height: 5/8" (15.9mm)  
Total Height: 1 3/8" (35mm)  
Comes Standard with:  
#6 x 5/8" PPHSMS

Finish Options: A, D  
Length Available: 36", 48", 84", 96"  
Width: 1/4" (6.4mm)  
Profile Height: 3/4" (19.1mm)  
Insert Height: 7/16" (10.3mm)  
Total Height: 1 3/16" (29.4mm)  
Comes Standard with:  
#6 x 5/8" PPHSMS

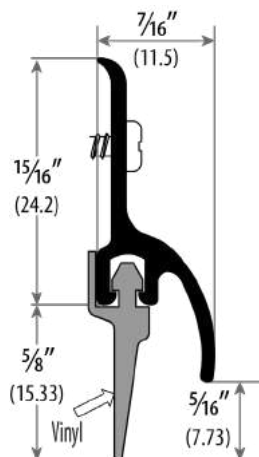
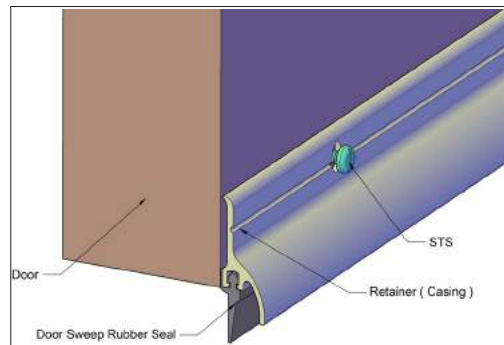
Finish Options: A, D  
Length Available: 36", 48"  
Width: 1/4" (6.4mm)  
Profile Height: 7/8" (22.2mm)  
Insert Height: 1" (25.4mm)  
Total Height: 1 1/8" (27.1mm)  
Comes Standard with:  
#6 x 5/8" PPHSMS

Note: Products shown in this section are not drawn to scale. | Available Finishes: A (Mill Finish Aluminum) | D (Dark Bronze Anodized Aluminum)

## SPECIFICATIONS

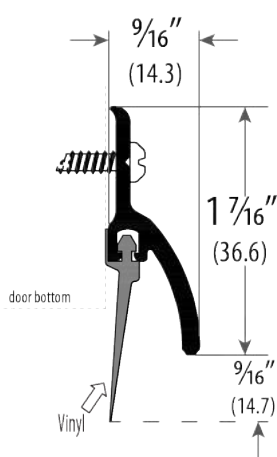
- » Door Bottom Sweeps are used to seal the gap at the bottom of the door to prevent infiltration of sound, light, drafts, insects, moisture, smoke or fire.
- » Surface mounted to the face of the door. They are commonly used on the exterior of outswing doors.
- » Made of Extruded Aluminum Retainer with Vinyl or Neoprene Insert.
- » Used on either Wood or Hollow Metal doors.
- » Punched with slotted holes for adjustment.
- » Also available with a rain drip design (**prefix BTSR**), which deflects water.

### Testing/Ratings:



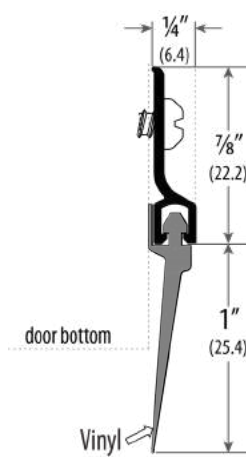
**BTSR-107**

Finish Options: AV, DV  
Length Available: 36", 48"  
Width:  $\frac{7}{16}$ " (11.5mm)  
Profile Height:  $1 \frac{1}{4}$ " (31.8mm)  
Total Height:  $1 \frac{9}{16}$ " (39.5mm)  
Comes Standard with:  
#6 x  $\frac{5}{8}$ " PPHSMS



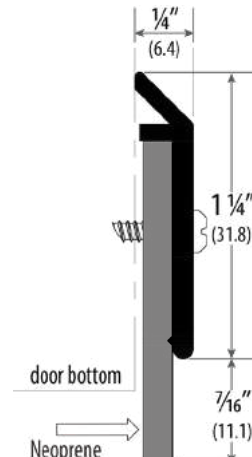
**BTSR-108**

Finish Options: AV, DV  
Length Available: 36", 48"  
Width:  $\frac{9}{16}$ " (14.3mm)  
Profile Height:  $1 \frac{7}{16}$ " (36.6mm)  
Total Height: 2" (51.3mm)  
Comes Standard with:  
#6 x  $\frac{5}{8}$ " PPHSMS



**BTS-103**

Finish Options: AV, DV  
Length Available: 36", 48"  
Width:  $\frac{1}{4}$ " (6.4mm)  
Profile Height:  $\frac{7}{8}$ " (22.2mm)  
Insert Height: 1" (25.4mm)  
Total Height:  $1 \frac{7}{8}$ " (47.6mm)  
Comes Standard with:  
#6 x  $\frac{5}{8}$ " PPHSMS



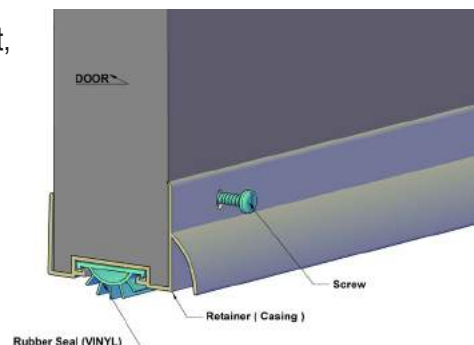
**BTN-112**

Finish Options: AN, DN  
Length Available: 36", 48"  
Width:  $\frac{1}{4}$ " (6.4mm)  
Profile Height:  $1 \frac{1}{4}$ " (31.8mm)  
Total Height:  $1 \frac{11}{16}$ " (42.9mm)  
Comes Standard with:  
#6 x  $\frac{5}{8}$ " PPHSMS

**Note:** Products shown in this section are not drawn to scale. | Available Finishes: AN (Mill Finish Aluminum with Neoprene Insert) | DN (Dark Bronze Anodized Aluminum with Neoprene Insert) | AV (Mill Finish Aluminum with Vinyl Insert) | DV (Dark Bronze Anodized Aluminum with Vinyl Insert)

## SPECIFICATIONS

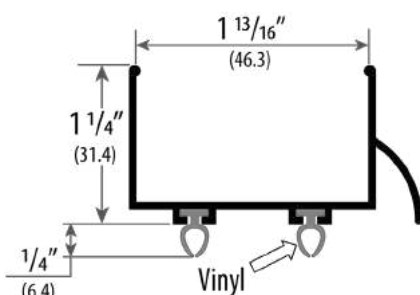
- » Door Shoe is applied to the underside of the door creating a barrier against dust, drafts, light, smoke, and fire without compromising the aesthetics of the door.
- » It is also used to provide protection for the bottom of the door.
- » It consists of Aluminum Channel with a flexible Vinyl Insert.
- » Channels are punched with slotted holes for easy adjustment.
- » Used on either Wood or Hollow Metal doors.
- » Also available with a rain drip design (**prefix DSR**), which deflects water from the door as well as sealing the bottom of the door.



Testing / Ratings:  
for DSR-406

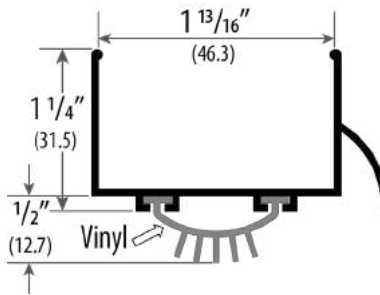


Testing / Ratings: for DSR-407,  
DS-403, DS-404, DSR-410



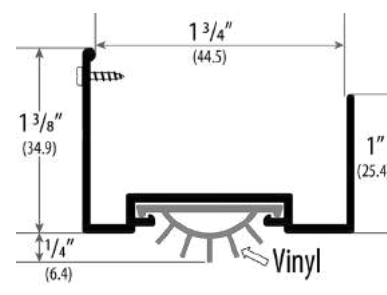
**DSR-406**

Finish Options: AV, DV  
Length Available: 36", 48"  
Width: 1 13/16" (46.3mm)  
Profile Height: 1 1/4" (31.4mm)  
Total Height with Insert: Approx. 1 1/2" (37.8mm)  
Comes Standard with #6 x 5/8" PPHSMS



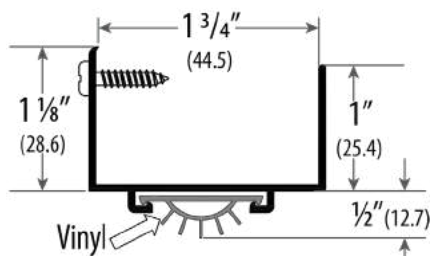
**DSR-407**

Finish Options: AV, DV  
Length Available: 36", 48"  
Width: 1 13/16" (46.3mm)  
Profile Height: 1 1/4" (31.5mm)  
Total Height with Insert: Approx. 1 3/4" (44.2mm)  
Comes Standard with #6 x 5/8" PPHSMS



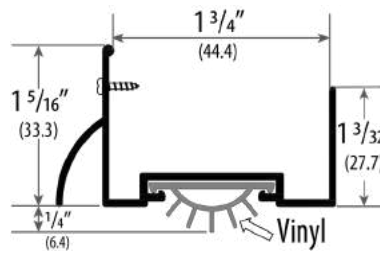
**DS-403**

Finish Options: AV, DV  
Length Available: 36", 48"  
Width: 1 3/4" (44.5mm)  
Profile Height: 1 3/8" (34.9mm)  
Total Height with Insert: Approx. 1 5/8" (41.3mm)  
Comes Standard with #6 x 5/8" PPHSMS



**DS-404**

Finish Options: AV, DV  
Length Available: 36", 48"  
Width: 1 3/4" (44.5mm)  
Profile Height: 1 1/8" (28.6mm)  
Total Height with Insert: Approx. 1 5/8" (41.3mm)  
Comes Standard with #6 x 5/8" PPHSMS



**DSR-410**

Finish Options: AV, DV  
Length Available: 36", 48"  
Width: 1 3/4" (44.4mm)  
Profile Height: 1 5/16" (33.3mm)  
Total Height with Insert: Approx. 1 9/16" (39.7mm)  
Comes Standard with #6 x 5/8" PPHSMS

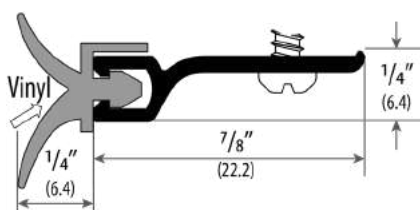
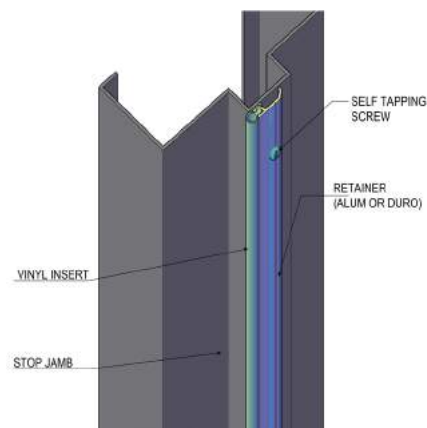
**Note: Products shown in this section are not drawn to scale.**

**Available Finishes: AV** (Mill Finish Aluminum with Vinyl Insert) | **DV** (Dark Bronze Anodized Aluminum with Vinyl Insert)



## SPECIFICATIONS

- » Perimeter Gasketing consists of an Aluminum Channel with a Vinyl Rubber Seal.
- » It is designed to seal the gaps around the top & two sides of a door.
- » Can be installed on either Wood or Metal frame.
- » It contains (1) Jamb Header piece and (2) Hinge & Strike Jamb pieces of weatherstrip.
- » Each weatherstrip can seal gaps up to the depth of its seal.
- » Seal depth provided on each illustration (example: PG-602 has a 1/4" seal; therefore, it can seal up to a 1/4" gap).
- » Channels are punched with slotted holes for easy adjustment.

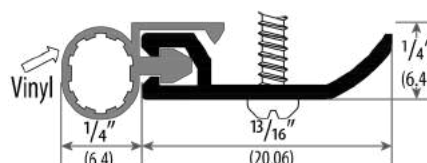


**PG-601**

### Testing / Ratings:



Finish Options: AV, DV  
Length Available: 3684, 4884, 4896, 7284, 7296  
Width: 1/4" (6.4mm)  
Profile Height: 7/8" (22.2mm)  
Total Height: 1 1/8" (28.55mm)  
Comes Standard with #6 x 5/8" PPHSMS

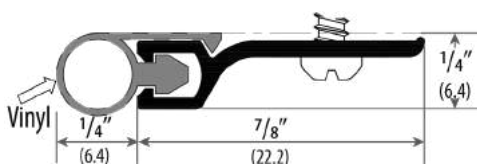


**PG-602**

### Testing / Ratings:



Finish Options: AV, DV  
Length Available: 3684, 4884, 4896, 7284, 7296  
Width: 1/4" (6.4mm)  
Profile Height: 13/16" (20.06mm)  
Total Height: 1 1/16" (26.46mm)  
Comes Standard with #6 x 5/8" PPHSMS

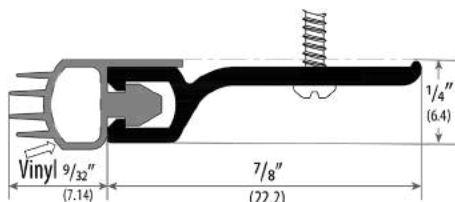


**PG-603**

### Testing / Ratings:



Finish Options: AV, DV  
Length Available: 3684, 4884, 4896, 7284, 7296  
Width: 1/4" (6.35mm)  
Profile Height: 7/8" (22.2mm)  
Total Height: 1 1/8" (28.55mm)  
Comes Standard with #6 x 5/8" PPHSMS



**PG-604**

### Testing / Ratings:



Finish Options: AV, DV  
Length Available: 3684, 4884, 4896, 7284, 7296  
Width: 9/32" (7.14mm)  
Profile Height: 7/8" (22.2mm)  
Total Height: 1 3/16" (29.34mm)  
Comes Standard with #6 x 5/8" PPHSMS

**Note: Products shown in this section are not drawn to scale.**

**Available Finishes:** AV (Mill Finish Aluminum with Vinyl Insert) | DV (Dark Bronze Anodized Aluminum with Vinyl Insert)

AUTOMATIC DOOR BOTTOMS			
ITEM #	SIZE	DESCRIPTION	FINISH
INS701-36	36"	Neoprene insert for ADB-701 and ADB-704	BLACK
INS701-48	48"		
INS702-36	36"	Vinyl insert for ADB-702	
INS702-48	48"		
INS703-36	36"	Vinyl insert for ADB-703	
INS703-48	48"		
INS705-36	36"	Vinyl insert for ADB-705	
INS705-48	48"		
EP701	15/16" x 1 7/8"	End Plate for ADB-701	ALUM, DURO
EP702	3/4" x 1 3/4"	End Plate for ADB-702	
EP703	1 1/2" x 1 3/4"	End Plate for ADB-703	
EP704	1 1/2" x 2 1/4"	End Plate for ADB-704	

BRUSH WEATHERSTRIPS			
ITEM #	SIZE	DESCRIPTION	FINISH
INS301-36	36"	Nylon Brush for BWR-301	BLACK
INS301-48	48"		
INS302-36	36"	Nylon Brush for BW-302	
INS302-48	48"		
INS303-36	36"	Nylon Brush for BW-303	
INS303-48	48"		
INS303-84	84"		
INS303-96	96"		
INS305-36	36"	Nylon Brush for BW-305	
INS305-48	48"		

DOOR BOTTOM SWEEPS			
ITEM #	SIZE	DESCRIPTION	FINISH
INS107-36	36"	Vinyl insert for BTSR-107	BLACK
INS107-48	48"		
INS108-36	36"	Vinyl insert for BTSR-108	
INS108-48	48"		
INS103-36	36"	Vinyl insert for BTS-103	
INS103-48	48"		
INS112-36	36"	Neoprene insert for BTN-112	
INS112-48	48"		

DOOR SHOES			
ITEM #	SIZE	DESCRIPTION	FINISH
INS406-36	36"	Vinyl insert for DSR-406	GRAY
INS406-48	48"		
INS407-36	36"	Vinyl insert for DSR-407	
INS407-48	48"		
INS403-36	36"	Vinyl insert for DS-403, DS-404, and DSR-410	
INS403-48	48"		

PERIMETER GASKETING			
ITEM #	SIZE	DESCRIPTION	FINISH
INS601-3684	17'	Vinyl Insert for PG-601	GRAY
INS601-4884	18'		
INS601-4896	20'		
INS601-7284			
INS601-7296	22'		
INS602-3684	17'	Vinyl Insert for PG-602	
INS602-4884	18'		
INS602-4896	20'		
INS602-7284			
INS602-7296	22'		
INS603-3684	17'	Vinyl Insert for PG-603	
INS603-4884	18'		
INS603-4896	20'		
INS603-7284			
INS603-7296	22'		
INS604-3684	17'	Vinyl Insert for PG-604	
INS604-4884	18'		
INS604-4896	20'		
INS604-7284			
INS604-7296	22'		

SCREWS		
ITEM #	DESCRIPTION	FINISH
SPH815	#8 x 1 1/2" Truss PHSMS for ADB-701 and ADB-702	ALUM, DURO
SFH815	#8 x 1 1/2" Truss FHSMS for ADB-701 and ADB-702	
SPH675	#6 x 3/4" PPHSDS for ADB-703, ADB-704, and ADB-705	
SPH658	#6 x 5/8" PPHSMS for Brush Weatherstrip, Door Bottom Sweep, Perimeter Gasketing, and Door Shoe models	

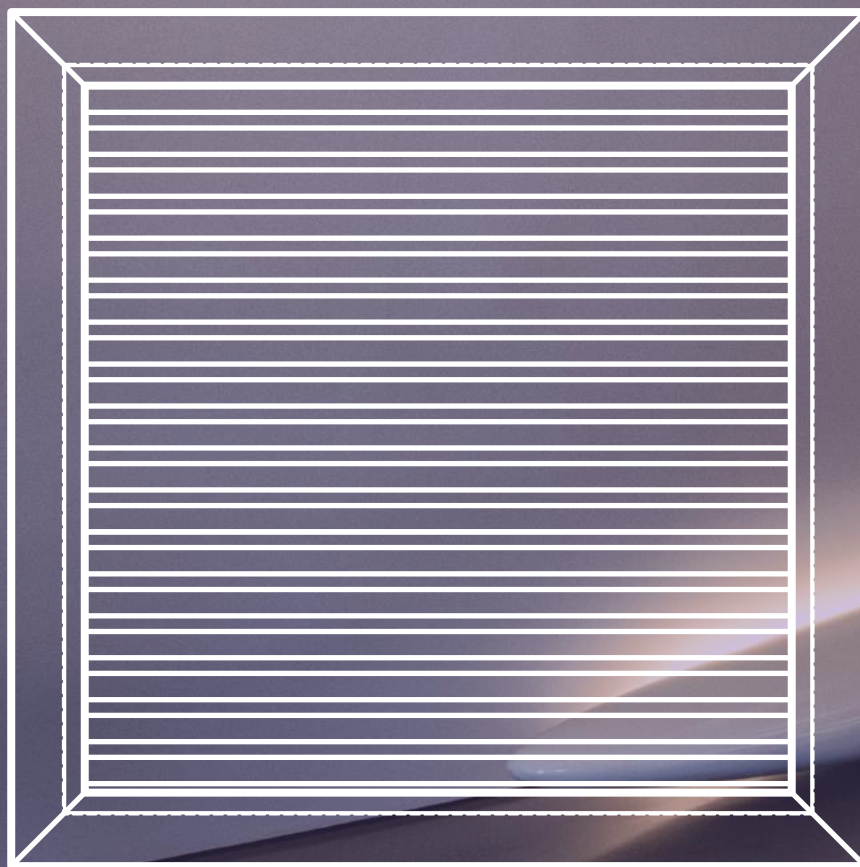
## DOOR WEATHERS SEALS COMPARISON CHART

CAL-ROYAL	PEMKO	HAGER	ZERO	COMBO	COLUMBIA	NGP	REESE
<b>AUTOMATIC DOOR BOTTOM</b>							
ADB-701	4301	747S	361 / 362	---	---	420	330
ADB-702	4131	740S	351 / 352	---	---	223	521
ADB-703	411	730S	320	244	---	335	370
ADB-704	434	743S	360	---	---	423	430
ADB-705	420	742S	355	---	---	320	372
<b>ADHESIVE WEATHERSTRIP</b>							
C-440	S44	728	---	---	3336	5060	798
C-880	S88	726	188S	---	3338	5050	797
C-0773	S773	738	---	---	---	5075	793
<b>BRUSH WEATHERSTRIP</b>							
BWR-301	3452NB	---	8198	316	5820 / 5829	---	354
BW-302	18061	802S	8192	309	---	---	964
BW-303	18041	---	---	307	---	B606	959
BW-305	18100	801S	---	308	6620 / 6629	D608	967
<b>DOOR BOTTOM SWEEP</b>							
BTSR-107	3452V	---	---	215	5840 / 5849	---	---
BTSR-108	345	770S	8197	214	5860 / 5869	101V	353
BTS-103	307	756S	8191	209	6580 / 6589	97V	806
BTN-112	315	750S / 752S	39	---	3350 / 3359	200NA	603
<b>DOOR SHOE</b>							
DSR-406	---	---	---	256	258DV	---	---
DSR-407	216	---	---	257	258	---	DB595
DS-403	222	780S	---	---	669	---	DB596
DS-404	217	779S	111	151	---	36V	DB594
DSR-410	2221	---	---	---	---	---	---
<b>PERIMETER GASKETING</b>							
PG-601	294	892S	---	---	6650	---	DS106
PG-602	297	896S	---	3212	3200	156	888
PG-603	303	891S	328	1000	3340	160	807
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# LITES + LOUVERS







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## CAL-ROYAL PRODUCTS, INC. LITES & LOUVERS COLOR CHART

Cal-Royal Lites are powder coated which provides better performance. It is more resistant to chipping, scratching and other wear because of the thermal bonding it undergoes during curing, and because it can be applied in much thicker layers. In addition to its physical toughness, powder coating provides superior color retention resulting in longer life usage



Dark Bronze (DB)



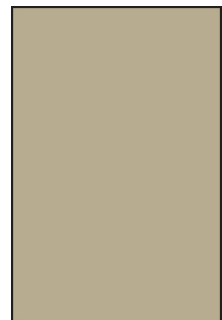
Sand (S)



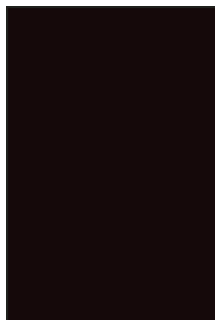
SC Beige (SB)



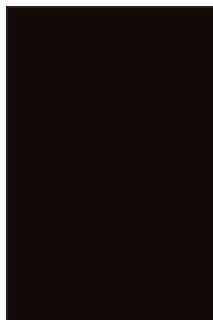
AMS Beige (AB)



Brass (BRA)



Semi Gloss  
Black (BK)



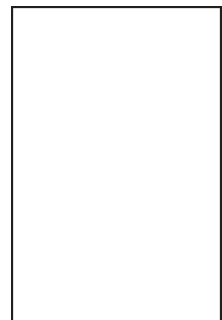
Flat Black (FBK)



Grey (PR)



Silver (SI)



White (W)

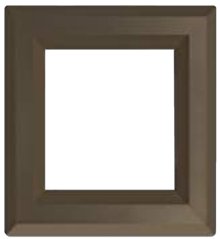

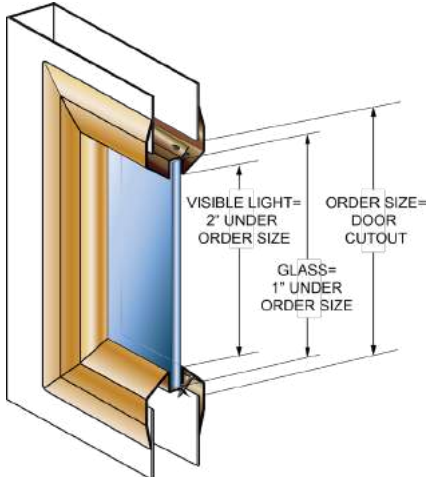
Dark Bronze (DB) and Grey (PR, Prime Coat) are available for immediate shipment on selected sizes shown in the catalog. See price list.  
All other sizes & colors are made in the USA with lead time.

Note: The colors shown above are similar to, and may not be exactly the same as the painted products.





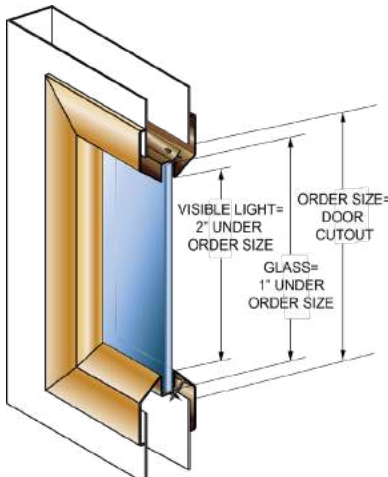
## 20-180 Minute Fire-Rated Steel Vision Kits\*

### SVL , Vision Lite Low Profile

ILLUSTRATION	SPECIFICATIONS
  	<p>For use in fire rated door applications under positive and neutral pressure. Intertek testing certification in compliance to NFPA 252 (2000), UL 10C (2009), CAN / ULS104 (2010), NFPA (201) and CSI CODE 0870 00.</p> <p><b>Specifications:</b></p> <ul style="list-style-type: none"> <li>- Low Profile Beveled Vision Lite; 20 Gauge Cold Rolled Steel</li> <li>- Mitered welded corners with counter sunk mounting holes</li> <li>- Single side attaching with matching mounting screws included</li> <li>- Designed for use with 1 3/4" doors only. For use with 3/16" to 1/4" glass thickness</li> <li>- Color: <b>Dark Bronze (DB)</b>; also available in <b>Grey (PR - Prime Coat)</b> in selected sizes only</li> <li>- <b>Custom colors available, see color chart on page 1.</b></li> <li>- Fastener: # 8 x 7/8" flathead phillips head SMS</li> </ul> <p><b>Kit Options:</b></p> <ul style="list-style-type: none"> <li>- Also available as a KIT or bundle which comes with the Frame, Glass and Glazing Tape.</li> <li>- Available glass types are Fire Rated Pyran® Platinum F Glass (3/16"), TEMP20 (1/4"), PROTECT3™ Wired Safety Glass (1/4"), and Non-Fire Rated Tempered (1/4").</li> </ul> <p><b>Notes:</b></p> <ul style="list-style-type: none"> <li>- Order size is equal to opening size. Visible vision opening is 2" under order size</li> <li>- Glass size dimension is 1" under complete order size</li> <li>- Dimensions are written width (W) x height (H)</li> <li>* Refer to price list for list of fire rated sizes</li> <li>* <b>Custom sizes are available. See price list.</b></li> </ul>

### VL , Vision Lite Standard Profile for 3/16" to 1/4" Thick Glass Frames

### 10VL , Vision Lite Standard Profile for 1" Thick Glass Frames

ILLUSTRATION	SPECIFICATIONS
  	<p>For use in fire rated door applications under positive and neutral pressure. Intertek testing certification in compliance to NFPA 252 (2000), UL 10C (2009), CAN/ULS104 (2010), NFPA (201) and CSI CODE 0870 00.</p> <p><b>Specifications:</b></p> <ul style="list-style-type: none"> <li>- Standard Profile Beveled Vision Lite; 20 Gauge Cold Rolled Steel</li> <li>- Mitered welded corners with counter sunk mounting holes</li> <li>- Single side attaching with matching mounting screws included</li> <li>- Also available for 1" glass thickness (10VL Series)</li> <li>- Designed for use with 1 3/4" doors only; For use with 3/16" to 1/4" glass thickness</li> <li>- Color: <b>Dark Bronze (DB)</b>; also available in <b>Grey (PR - Prime Coat)</b> in selected sizes only</li> <li>- <b>Custom colors available, see color chart on page 1.</b></li> <li>- Fastener: # 8 x 7/8" flathead phillips head SMS</li> </ul> <p><b>Kit Options:</b></p> <ul style="list-style-type: none"> <li>- Also available as a KIT or bundle which comes with the Frame, Glass and Glazing Tape.</li> <li>- Available glass types are Fire Rated Pyran® Platinum F Glass (3/16"), TEMP20 (1/4"), PROTECT3™ Wired Safety Glass (1/4"), and Non-Fire Rated Tempered (1/4").</li> </ul> <p><b>Notes:</b></p> <ul style="list-style-type: none"> <li>- Order size is equal to opening size, Glass size dimension is 1" under complete order size</li> <li>- Visible vision opening is 2" under order size</li> <li>- Dimensions are written width (W) x height (H)</li> <li>* Refer to price list for list of fire rated sizes</li> <li>* <b>Custom sizes are available. See price list.</b></li> </ul>

## Pyran (PPF), TEMP20, Wire Shield (WS), and Tempered

### Glass for Low & Standard Profile Lite Kits

#### Pyran (PPF)

(PYRAN® PLATINUM F, Fire & Safety Rated )

- Fire-Rated up to 90 minutes (180 minutes in doors) with required hose stream test
- Fire and Safety-Rated Glass Impact / Safety Rated to ANSI Z97.1 and CPSC 16CFR1201 CAT II
- Thickness:  $\frac{3}{16}$ " (5mm). Weight: 2.5 lbs / ft<sup>2</sup>
- UL labeled standard,  $\frac{3}{16}$ " thick glass ceramic.
- Surface applied heavy duty safety film. Install in fire listed and labeled vision lite frames.
- Light transmission: 80% approx.
- Minimum size: 4" x 6"
- Maximum sheet size: 43" x 77"

#### WireShield (WS)

( PROTECT3™ Wired Safety Glass, Fire-Rated )

- Fire-Rated up to 90 minutes with hose stream
- UL classified and UL labeled
- Impact-Safety rated to ANSI Z97.1 and CPSC 16CFR1201, CAT I and II
- Passes 400 ft-lb impact tests
- Annealed single glazing with safety film applied to one side
- Passes air blast testing - minimum Level 3 @ 4.0PSI
- Embedded  $\frac{3}{4}$ " x  $\frac{3}{4}$ " wire mesh
- Light Transmission: 86% approx
- Thickness:  $\frac{1}{4}$ " (6 mm)
- Minimum size: 4" x 4"
- Maximum sheet size: 48" x 96"

#### TEMP20

- Clear wire-free, fire rated and impact safety rated glass for 20 minute fire doors.
- Impact safety rated to ANSI Z97.1 and CPSC 16 CFR1201 (Cat I and II).
- Meets NFPA 80 requirements for certification and labeling.
- Tempered glass for safety and security.
- Thickness:  $\frac{1}{4}$ " (6mm)
- Light transmission: 90% approx.
- Minimum size: 4" x 4"
- Maximum sheet size: 36" x 89"
- Can be used in standard fire rated doors of same rating.

#### Tempered Glass (TEMP)

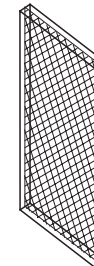
- Clear wire free glass recommended for non-fire rated applications
- Heat treated clear safety glass that breaks into small particles. Glass cannot be cut after manufacturing.
- Thickness:  $\frac{1}{4}$ " (6mm)
- Light transmission: 90% approx
- Minimum size: 2" x 2"
- Maximum sheet size: 87" x 117"
- Fire Rating: Non-Fire Rated



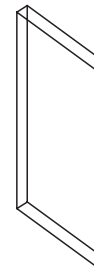
PYRAN



TEMP20



WIRESHIELD





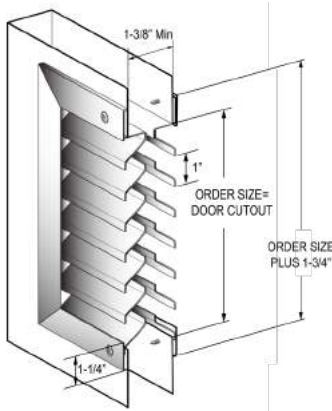
TEMPERED

LISTINGS	Product	Rating	Application	Max Sq In (in <sup>2</sup> )	Max Width (in)	Max Height (in)	Stop Height (in)
PPF	Platinum F	Up to 90 min	Other than doors	3422	76	76	$\frac{5}{8}$
		Up to 90 min	Doors (Non-Temp Rise)	2736	36	76	$\frac{5}{8}$
		180 min	Doors	100	12	33	$\frac{1}{2}$
TEMP20	Temp20	20 min	Doors	3204	36	89	$\frac{1}{2}$
WS	PROTECT3™ SAFETY WIRED GLASS (WireShield)	Up to 45 min	Doors, Metal	2856	34	84	$\frac{5}{8}$
		Up to 90 min	Doors, Metal	552	12	46	$\frac{5}{8}$
		Up to 60 min	Doors, Wood	960	12	80	$\frac{5}{8}$
		Up to 45 min	Window and Sidelites	4608	48	96	$\frac{5}{8}$
		Up to 45 min	Transom Lites	3456	96	36	$\frac{5}{8}$



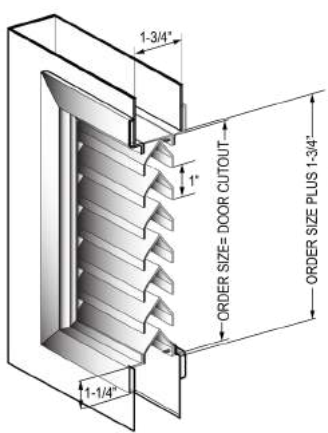


## 90 Minute Fire-Rated Steel Louvers\*

### YLV, Divided Reverse "Y" Blade, Inverted Louvers

ILLUSTRATION	SPECIFICATIONS
  	<p>For use in fire-rated door applications under positive and neutral pressure Intertek testing certification in compliance to NFPA 252 (2000), UL 10C (2009), NFPA 252 (2012), CSI CODE 08 90 00 Louvers and Vents</p> <p><b>Specifications:</b></p> <ul style="list-style-type: none"> <li>- 18 Gauge cold rolled steel frame and blades</li> <li>- Mitered welded corner frame construction</li> <li>- Divided row "Y" blades spaced at 1" increments with blocked vision design</li> <li>- Counter sunk mounting holes with screws for each side of doors</li> <li>- Minimum door size thickness 1 3/8"</li> <li>- Baked on powder coat finish</li> <li>- Color: <b>Dark Bronze (DB)</b>. Custom colors available, see color chart on page 1.</li> <li>- Free Flow Area: 50% free area</li> <li>- Fasteners: Phillips pan head screw # 8 x 3/4"</li> </ul> <p><b>Notes:</b></p> <ul style="list-style-type: none"> <li>- Order size equal to opening size, Width x Height</li> <li>- Follow all door manufacturer's instructions for use and installation of all louver products</li> <li>- Optional Insect screen, see price list.</li> </ul> <p>* Refer to pricelist for list of fire rated sizes</p>

### VLV, Inverted Y-Blade Louvers

ILLUSTRATION	SPECIFICATIONS
  	<p>For use in fire rated door applications under positive and neutral pressure Intertek testing certification in compliance to NFPA 252 (2000), UL 10C (2009), NFPA 252 (2012), CSI CODE 08 90 00 Louvers and Vents</p> <p><b>Specifications:</b></p> <ul style="list-style-type: none"> <li>- 18 Gauge cold rolled steel frame and blades</li> <li>- Mitered welded corner frame construction</li> <li>- Reverse "Y" blades are frame supported at 1" increments, with blocked vision design</li> <li>- Single side mounting for non-corridor exposure with fastening screws included</li> <li>- Designed for use on 1 3/4" doors only</li> <li>- Baked on powder coat finish.</li> <li>- Color: <b>Dark Bronze (DB)</b>. Also available in <b>Grey (PR - Prime Coat)</b> in selected sizes</li> <li>- Custom colors available, see color chart on page 1.</li> <li>- Free Flow Area: 50% free area</li> <li>- Fasteners: Phillips pan head screw # 8 x 3/4"</li> </ul> <p><b>Notes:</b></p> <ul style="list-style-type: none"> <li>- Order size equal to opening size, Width x Height</li> <li>- Follow all door manufacturer's instructions for use and installation of all louver products</li> <li>- Optional Insect screen, see price list</li> </ul> <p>* Refer to pricelist for list of fire rated sizes</p>

## 90 Minute Fire-Rated Fusible Link Louvers

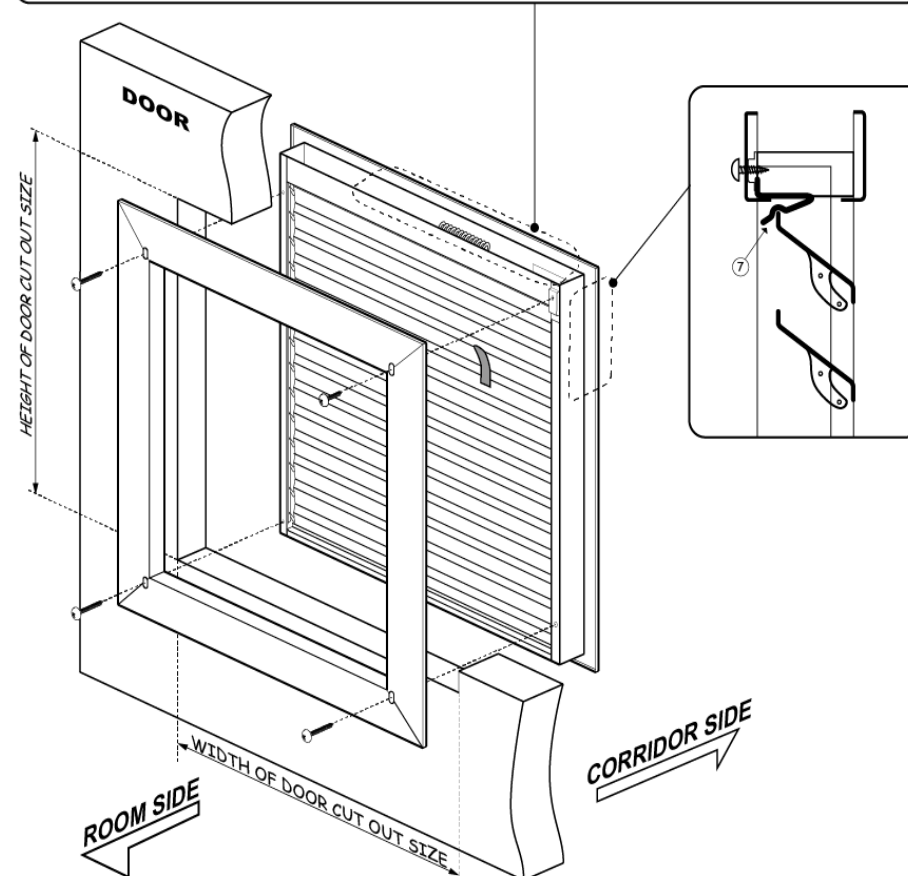
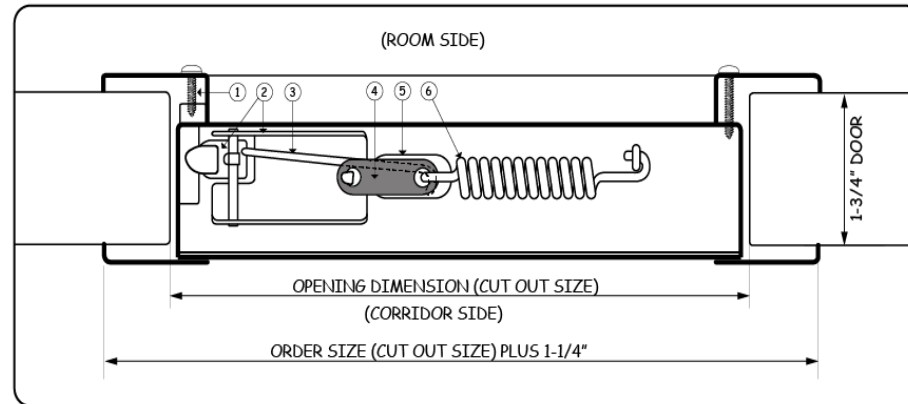
### FLLV, Adjustable Fusible Link Louvers

Adjustable Fusible Link Louvers are recommended for use in rooms where ventilation is needed and at the same time isolating the room whenever fire is present. When louver is exposed to heat at 165°F, the fusible link trips and the spring loaded louver blades shut to form an air tight fire and smoke seal.

WHI Listing Mark with a 90 Minute Fire Rating is stamped on the frame of the louvers.

Installation is easy. No need to drill holes for fasteners. All screws are mounted on the room side leaving the corridor side free of fasteners for security purposes.

Fuses are replaceable.



**CUSTOM COLORS AVAILABLE, SEE COLOR CHART ON PAGE 1**



- ① Mounting Screws - # 8 phillips head  
(3 x 3/4" LG & 1 x 1/2" LG)
- ② Rocker Arm, Closing Bar and housing
- ③ "S" Hook - .080" Cadmium plated steel
- ④ Fusible link - Design temperature 165° F max
- ⑤ Heat opening - 1/2" x 1"
- ⑥ Tension spring - 3" LG x 1/2" dia x .063" thick Cadmium plated steel.
- ⑦ Flat Spring Clip

#### Standard Features:

Material: 16 Gauge CRS Frame & Louver Blades

Door: for 1 3/4" Doors only

Fasteners: 3 x 3/4" LG & 1 x 1/2" LG

Color: **Dark Bronze (DB)**

**\*Custom colors available, see color chart on page 1.**

Free Flow Area: 45% free area

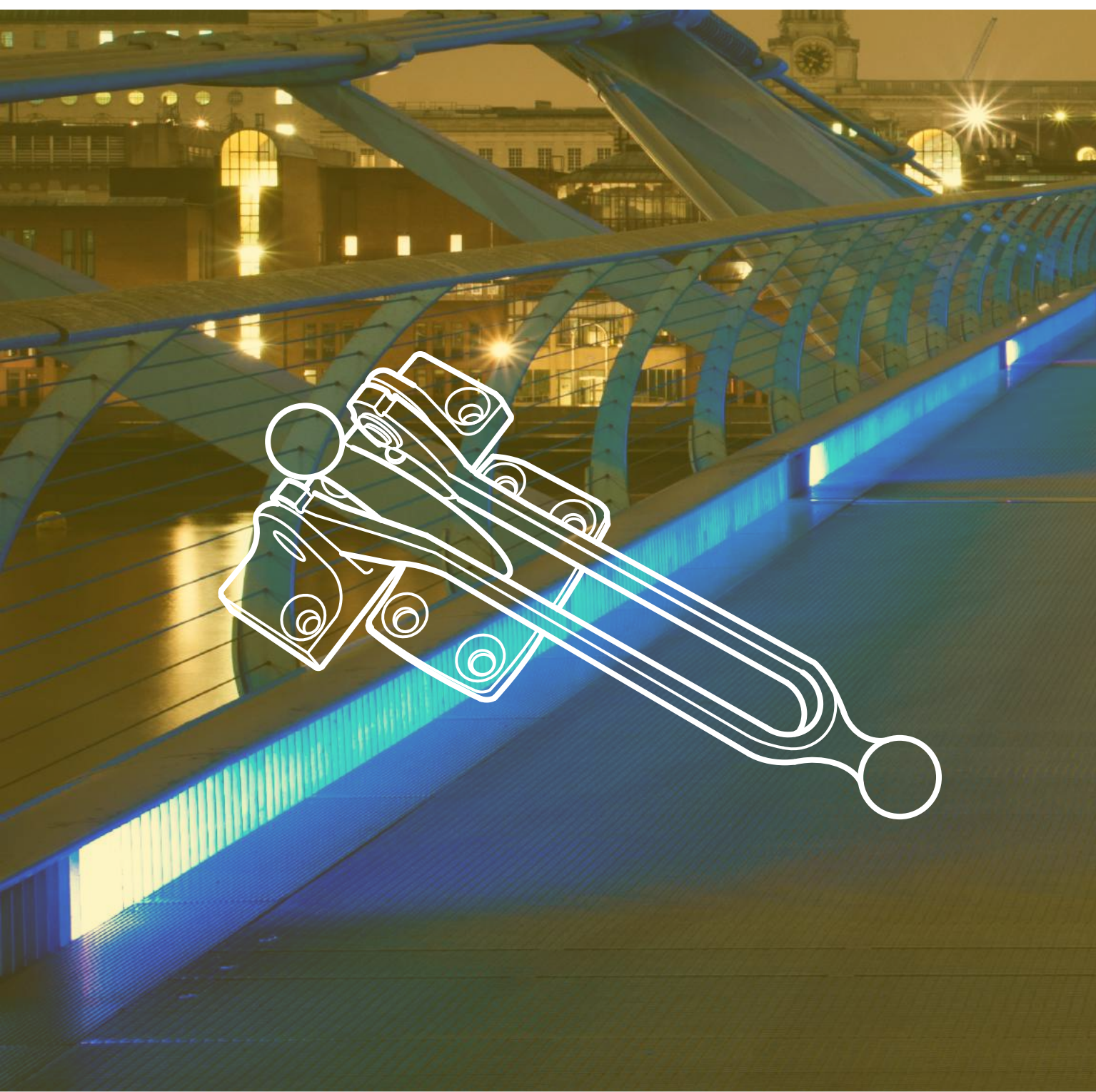
Construction:

- Welded & mitered corners
- Adjustable blades of 16-gauge CRS
- Cadmium plated steel rivets & tension spring
- 1 9/16" deep louver assembly
- Optional Insect screens, see price list
- Dimensions are written Width x Height





# BUILDERS HARDWARE

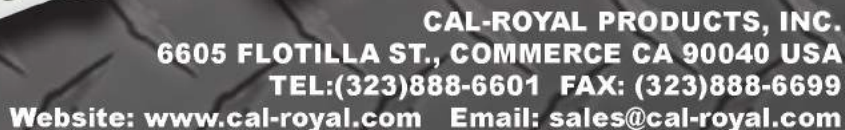


BUILDERS  
HARDWARE





SEPTEMBER 2020



**CAL-ROYAL PRODUCTS, INC.**  
**6605 FLOTILLA ST., COMMERCE CA 90040 USA**  
**TEL:(323)888-6601 FAX: (323)888-6699**  
**www.cal-royal.com Email: sales@cal-royal.com**



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## NUMBERS AND LETTERS

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	<b>Solid Brass Numbers</b>	Height: 2" Thickness: $\frac{3}{16}$ " Width: Varies	SBN2	US3
		Height: 3" Thickness: $\frac{3}{16}$ " Width: Varies	SBN3	US3, 10B, US15
		Height: 4" Thickness: $\frac{3}{16}$ " Width: Varies	SBN4	US3, 10B, US15,26
		Height: 8" Thickness: $\frac{3}{16}$ " Width: Varies	SBN8	US3
	<b>Diecast Numbers</b>	Height: 5" Thickness: $\frac{7}{32}$ " Width: Varies	ZN5	US3, 10B, US15
	<b>Solid Brass Letters</b>	Height: 2" Thickness: $\frac{7}{32}$ " Width: Varies	SBL2	US3
		Height: 3" Thickness: $\frac{7}{32}$ " Width: Varies	SBL3	US3 (A-Z) US15 (A-H) US10B (A-F)
		Height: 4" Thickness: $\frac{7}{32}$ " Width: Varies	SBL4	US3 (A-Z) US15, 10B, US26 (A-F)
	<b>Diecast Numbers (0-9) and Letters (A-F)</b>	Height: 4" Thickness: $\frac{3}{32}$ " Width: Varies	PN20BK	Black
			PN20US3	US3
	<b>Floating Modern Numbers (0-9)</b> <i>Zinc Alloy Material ( for Floating or Flush mount installations )</i> <b>NEW ITEM</b>	Height: 5" Thickness: $\frac{5}{16}$ " Width: Varies	MDN5US1	US1
			MDN5US15	US15

Individually Poly-bagged. Packed with Flat Head Screws.  
Modern Numbers packed with screws with sleeve for flushed or floating mount installations.

## MISCELLANEOUS DOOR AND WINDOW HARDWARE

ILLUSTRATION	ITEM	SIZE	ITEM #	FINISH
	<b>Window Casement Fasteners, Solid Brass</b> <ul style="list-style-type: none"> <li>Packed with screws and two strikes</li> <li>Conforms to ANSI / BHMA A156.16</li> <li>Architectural finishes available</li> </ul>	Dimensions: $1 \frac{5}{8}" \times \frac{7}{8}"$ Projection: $1 \frac{3}{8}"$	SBCF222	US3, 5, 10B, US15, 15A, US19, US26, US26D
		Dimensions: $2 \frac{1}{16}" \times 1 \frac{1}{16}"$ Projection: $1 \frac{7}{8}"$	SBCF333	
	<b>Door / Window Casement Security Latch Lock</b>	Bolt Projection: $\frac{1}{2}"$ Escutcheon Dim.: $\frac{7}{8}" \times 1 \frac{11}{16}"$ Thumbturn: $\frac{5}{8}" \times 1"$ Strike: $\frac{7}{8}" \times 1 \frac{3}{4}"$	DL402361	US3, 5, US10B, 15, US26, 26D
	<b>Template ASA Strike, Stainless Steel</b>	Dimensions: $4 \frac{7}{8}" \times 3 \frac{3}{8}" \times 1 \frac{1}{4}"$	ASA478	US32D
	<b>Template ASA Strike, Solid Brass</b>			US3, 10, US10B, 26
	<b>Template ASA Strike, Steel Base</b>		ASAST	US3, 10, US10B, 26, US26D, 1
	<b>Extended Lip ANSI Strike, Stainless Steel</b>	Dimensions: $4 \frac{7}{8}" \times 3 \frac{3}{8}" \times 1 \frac{1}{4}"$ , $1 \frac{3}{4}"$ Lip Extension from Screw Center Line	EXASA-175	US32D, Duro
	<b>Flat Strike, Stainless Steel</b> <ul style="list-style-type: none"> <li>To be used for pair of doors on inactive door, not to cut out the flat astragal</li> <li>Packed with screws</li> </ul>	Dimensions: $4 \frac{7}{8}" \times 3 \frac{3}{8}" \times 1 \frac{1}{4}"$ , $4 \frac{1}{8}"$ CTC	FLAST-46	US32D, US10B
	<b>Heavy Duty Security Strike</b> <ul style="list-style-type: none"> <li>Includes: 2 pcs #10 x <math>2 \frac{1}{2}"</math> and 2 pcs #10 x <math>\frac{3}{4}"</math> Wood Screws</li> </ul>	Dimensions: $3 \frac{5}{8}" \times 1 \frac{7}{8}"$	SDTP3625	US3, 26, 15, US10B, 15A
	<b>Deadbolt Security Strike</b> <ul style="list-style-type: none"> <li>Includes: 2 pcs #12 x 3" and 2 pcs #12 x <math>1 \frac{1}{4}"</math> Wood Screws</li> </ul>	Dimensions: $3 \frac{5}{8}" \times 1 \frac{1}{4}"$	SS114358	US3, 5, US10B, US15, 26D





## MISCELLANEOUS DOOR AND WINDOW HARDWARE

ILLUSTRATION	ITEM	SIZE	ITEM #	FINISH
	<b>Drive In Thimble Strike</b> <ul style="list-style-type: none"> <li>▶ Steel Construction</li> <li>▶ ZINC Plated</li> <li>▶ With 1 1/4" Screw</li> </ul>	Dimensions: Length: 1 1/8" Diameter: 1"	DTS80	Zinc
	<b>ASA Blank Filler Plate for Door Frames</b>	Dimensions: 1 1/4" x 4 7/8"	ASA-FP	---
	<b>Strike Filler for Door Frames</b>	Dimensions: 1 1/4" x 4 7/8" 1 5/8" at Lip Thickness: 10 Ga.	SF	---
	<b>Door Silencer for Metal Frames</b> <ul style="list-style-type: none"> <li>▶ Absorbs shock and reduce noise of door closing</li> <li>▶ Prevents door rattling</li> <li>▶ Provides tension for door latches / locks</li> <li>▶ Conforms to ANSI / BHMA A156.16, L03011</li> </ul>	Dimensions: Length: 1/2" Diameter: 1/2"	DSM21	Rubber
	<b>Door Silencer for Wood Frames</b> <ul style="list-style-type: none"> <li>▶ Absorbs shock and reduce noise of door closing</li> <li>▶ Prevents door rattling</li> <li>▶ Provides tension for door latches / locks</li> <li>▶ Conforms to ANSI / BHMA A156.16, L03021</li> </ul>	Dimensions: Length: 3/4" Base: 3/8" x 3/4"	DSW85	Rubber
	<b>Latch Guard Protector with Lock Cut-Out</b> <ul style="list-style-type: none"> <li>▶ For out-opening doors</li> <li>▶ For use with deadbolts and cylindrical locksets with 2 3/4" backset</li> <li>▶ Conforms with ANSI / BHMA A156.2 Series 4000</li> </ul>	Dimensions: 2 7/8" x 11"	LPG2	USP, Alum Duro, Gold



## MISCELLANEOUS DOOR AND WINDOW HARDWARE

ILLUSTRATION	ITEM	SIZE	ITEM #	FINISH
	<b>Latch Guard Protector with Security Frame Pin</b> <ul style="list-style-type: none"> <li>► For out-opening doors</li> <li>► For use with mortise or cylindrical locks</li> <li>► Used with security frame pin to prevent separation of the door and frame</li> <li>► Conforms with ANSI / BHMA A156.2 Series 4000</li> <li>► Similar to Glynn Johnson #LP1</li> </ul>	Dimensions: 3" x 11 1/2"	GJLPG2	US32D
 <b>NEW ITEM</b>	<b>Latch Guard Protector with Escutcheon Cut-Out</b> <ul style="list-style-type: none"> <li>► For out-opening doors</li> <li>► For use with mortise, dead-bolts, and cylindrical locksets with 2 3/4" backset</li> <li>► Conforms with ANSI / BHMA A156.2 Series 4000</li> </ul>	Dimensions: 3 1/2" x 11 3/4"	LG28	Alum, Duro, Gold, US26D
	<b>Brass Dust Proof Strike</b> <ul style="list-style-type: none"> <li>► Spring tension calibrated for positive closing and eliminates binding</li> <li>► Can be locked in up position</li> <li>► Conforms to ANSI / BHMA A156.16 L14011</li> </ul>	Dimensions: Face Plate: 1 3/8" x 2 1/8" Barrel: 1" dia. Depth: 2 1/4"	DPSTRK1	US26D, 26, US3, 10B
	<b>Heavy Duty Roller Catch</b> <ul style="list-style-type: none"> <li>► Adjustable Nylon Roller with Square Heavy Duty Cast 2 1/4" Full-lip Strike</li> <li>► Conforms to ANSI / BHMA A156.16, E19091</li> </ul>	Dimensions: Face Plate: 1" x 3 3/8" Full Lip Strike: 1/8" x 1" x 3 3/8" Depth: 1 13/16"	ARL-1338	US3, 26, US19, 15, US5, 15A, US10B, 26D
	<b>Optional T-Strike for Heavy Duty Roller Catch ARL1338</b> <ul style="list-style-type: none"> <li>► Architectural finishes available</li> <li>► Packed with screws</li> </ul>	Dimensions: 2 3/4" x 1 1/2" x 1 3/4"	ARLTSTRK62	US3, 26, US19, 15, US5, 15A, US10B, 26D






## KICK / ARMOR PLATES

ILLUSTRATION	ITEM	SIZE	ITEM #	FINISH
	<b>Stainless Steel Kick Plates</b> <ul style="list-style-type: none"> <li>Conforms to ANSI / BHMA J102</li> <li>Packed with #6 x 5/8" screws</li> </ul>  <p><i>*UL Listed Label Option on all Kick Plates not exceeding 16" in height.</i></p> <p>Prefix "UL" before part number when ordering. Example: BKICK1034 US32D with UL Label will be <u>"ULBKICK1034 US32D"</u></p>	0.050" x 4" x 34"	BKICK434	US32D
		0.050" x 8" x 22"	BKICK822	
		0.050" x 8" x 26"	BKICK826	
		0.050" x 8" x 28"	BKICK828	
		0.050" x 8" x 30"	BKICK830	
		0.050" x 8" x 32"	BKICK832	
		0.050" x 8" x 34"	BKICK834	US10B
			KICK834	
		0.050" x 10" x 22"	BKICK1022	US32D
		0.050" x 10" x 26"	BKICK1026	
		0.050" x 10" x 28"	BKICK1028	
		0.050" x 10" x 30"	BKICK1030	
		0.050" x 10" x 32"	BKICK1032	
		0.050" x 10" x 34"	BKICK1034	US10B
			KICK1034	
		0.050" x 10" x 40"	BKICK1040	US32D
		0.050" x 10" x 42"	BKICK1042	
		0.050" x 10" x 46"	BKICK1046	
		0.050" x 12" x 34"	BKICK1234	
		0.040" x 8" x 34"	AKICK834	
		0.040" x 10" x 34"	AKICK1034	
	<b>Aluminum Kick Plate</b> <ul style="list-style-type: none"> <li>Conforms to ANSI / BHMA A156.6</li> <li>Anodized Aluminum finish</li> <li>Packed with #6 x 5/8" screws</li> </ul>	0.032" x 6" x 34"	ANO634	US3 / US4, US10B, 15, US1
		0.032" x 8" x 34"	ANO834	
		0.032" x 10" x 34"	ANO1034	
	<b>Stainless Steel Armor Plates</b> <ul style="list-style-type: none"> <li>Conforms to ANSI / BHMA J101</li> <li>Packed with #6 x 5/8" screws</li> </ul>	0.050" x 34" x 34"	BARM3434	US32D
		0.050" x 34" x 36"	BARM3436	US32D

## PUSH / PULL PLATES

	<b>Push Plate</b> <ul style="list-style-type: none"> <li>Individually packed with protective film and screws</li> <li>Easy installation</li> <li>Conforms to ANSI / BHMA A156.6</li> <li>Architectural finishes available</li> </ul>	0.050" x 3 1/2" x 15"	PSPL3515	US32D, US10B, 10, US5, 4, 3, US26, 1
		0.050" x 4" x 16"	PSPL4016	
	<b>Pull Plate</b> <ul style="list-style-type: none"> <li>One piece mounted</li> <li>Packed with pull handle, fasteners and washers</li> <li>Conforms to ANSI / BHMA A156.6</li> <li>Architectural finishes available</li> </ul>	0.050" x 3 1/2" x 15"	PULPL3515	US32D, US10B, 10, US5, 4, 3, US26, 1
		0.050" x 4" x 16"	PULPL4016	

## PUSH / PULL PLATES

ILLUSTRATION	ITEM	SIZE		ITEM #	FINISH	
 <b>NEW ITEM</b>	<b>Aluminum Pull Plate</b> <ul style="list-style-type: none"><li>▶ One piece mounted</li><li>▶ Packed with pull handle, fasteners and washers</li><li>▶ Conforms to ANSI / BHMA A156.6</li><li>▶ Architectural finishes available</li></ul>	0.050" x 3 1/2" x 15"; 7" Aluminum Handle		PULPL715	US1	
		0.050" x 4" x 16" 9" Aluminum Handle		PULPL916		
	<b>Stainless Steel Push / Pull Plate</b> <ul style="list-style-type: none"><li>▶ BHMA: J303</li><li>▶ Fasteners: Six (6) #6 x 5/8" OPH tapping screws</li></ul>	Plate: 3 9/16" x 16 5/16" Projection: 1 1/8" (29 mm) Gauge: 0.125" (3.5 mm)		CMBOPUL3516	US32D	
	<b>Pull Plate Solid Bar Round 1000 Series</b> <ul style="list-style-type: none"><li>▶ Meets ANSI 156.6 for J401 Pulls</li><li>▶ 18 Gauge (0.050") Plate</li><li>▶ Clearance from plate to handle: ADA: 1 7/8" Non-ADA: 1 1/2"</li></ul> <p><b>*ADA - Americans with Disabilities Act Approved</b></p>	3/4" dia. 6"CTC	2 1/4" Proj.	3.5" x 15"	1000	US32D, US10B, 3
			2 5/8" Proj.	4" x 16"	1001	
		3/4" dia. 8"CTC	2 1/4" Proj.	3.5" x 15"	1002	US32D, US10B, 3
			2 5/8" Proj.	4" x 16"	1003	
		1" dia. 8"CTC	2 1/2" Proj.	3.5" x 15"	1004	US32D, US10B, 3
			2 7/8" Proj.	4" x 16"	1005	
		1" dia. 10"CTC	2 1/2" Proj.	3.5" x 15"	1006	US32D, US10B, 3
				4" x 16"	1007	
				4" x 16"	1007ADA*	US32D
		 ENGRAVED LETTERS  ENGRAVED LETTERS	<b>Stainless Steel Pull Plate</b> <ul style="list-style-type: none"><li>▶ With 3/4" "PULL" engraved in black color</li><li>▶ BHMA: J401</li><li>▶ Fasteners:<ul style="list-style-type: none"><li><b>a. Round Pull Bar Plates:</b><ul style="list-style-type: none"><li>» (6) #6 x 1/2" SS screws;</li><li>» (2) # 1/4"-20 x 2 1/2" Steel screws;</li><li>» (2) Steel washers</li></ul></li><li><b>b. Ellipse Pull Bar Plates:</b><ul style="list-style-type: none"><li>» (6) #6 x 1/2" SS screws;</li><li>» (2) # 10-32 x 2 1/4" Steel screws;</li><li>» (2) Steel washers</li></ul></li></ul></li></ul> <p><b>*ADA - Americans with Disabilities Act Approved</b></p>	3/4" dia. 6"CTC	3 1/2" x 15" Projection: 2 1/4"	
3/4" dia. 8"CTC	4" x 16" Projection: 2 5/8"			PULL1001ADA*		
				PULL1003ADA*		
1" dia. 8"CTC	4" x 16" Projection: 2 7/8"			PULL1005ADA*		
1" dia. 10"CTC				PULL1007ADA*		
ELLIPSE BAR 6"CTC	3 1/2" x 15" Projection: 1 3/4"			PULL001		
	4" x 16" Projection: 1 3/4"			PULL002		
<b>Stainless Steel Push Plate</b> <ul style="list-style-type: none"><li>▶ ANSI / BHMA A156.6</li><li>▶ With 3/4" "PUSH" engraved in black color</li></ul>	3 1/2" x 15"			PUSH003	US32D	
	4" x 16"			PUSH004		





## DOOR PULLS

ILLUSTRATION	ITEM	SIZE	ITEM #	FINISH
	<b>Solid Bar Round Pull</b> <ul style="list-style-type: none"> <li>▶ Stainless Steel, Brass and Aluminum material</li> <li>▶ Type 1 Thru-Bolt Mount for 1 3/4" thick doors</li> <li>▶ Individually packed</li> <li>▶ Easy installation</li> <li>▶ Architectural finishes available</li> </ul>	1" diameter, 10" CTC Projection: 2 1/2"	PUL200	US3, 32D
		1" Diameter, 8" CTC Projection: 2 1/2"	PUL201	
	<b>Solid Bar Round Pull</b> <ul style="list-style-type: none"> <li>▶ Stainless Steel, Brass and Aluminum material</li> <li>▶ Type 1 Thru-Bolt Mount for 1 3/4" thick doors</li> <li>▶ Individually packed</li> <li>▶ Easy installation</li> <li>▶ Architectural finishes available</li> </ul>	3/4" Diameter, 10" CTC Projection: 2 1/4"	PUL202	US3, 32D
		3/4" Diameter, 8" CTC Projection: 2 1/4"	PUL203	US3, 10B, US32D, 28
		3/4" Diameter, 6" CTC Projection: 2 1/4"	PUL204	US3, 10B, US32D, 28
		3/4" Diameter, 5 1/2" CTC Projection: 2 1/4"	PUL205	US3, 15, 10B, US32D, 28
		5/8" Diameter, 5 1/2" CTC Projection: 2"	PUL206	US3, 10B, US32D, 28
	<b>Solid Bar Pull Handle</b> <ul style="list-style-type: none"> <li>▶ Stainless Steel, Brass and Aluminum material</li> <li>▶ Type 1 Thru-Bolt Mount for 1 3/4" thick doors</li> <li>▶ Individually packed</li> <li>▶ Easy installation</li> <li>▶ Architectural finishes available</li> </ul>	3/8" x 1 1/4", 10" CTC Projection: 2"	PUL207	US3, 10B, US15, 28
		3/8" x 1 1/4", 8" CTC Projection: 2"	PUL208	US3, 10B, US15, 28
		3/8" x 1 1/4", 6" CTC Projection: 2"	PUL209	US3, 10B, US15, 26, 28
	<b>Solid Ellipse Pull Handle</b> <ul style="list-style-type: none"> <li>▶ Stainless Steel, Brass and Aluminum material</li> <li>▶ Type 1 Thru-Bolt Mount for 1 3/4" thick doors</li> <li>▶ Individually packed</li> <li>▶ Easy installation</li> <li>▶ Architectural finishes available</li> </ul>	7/8" x 1/2" Ellipse, 5 1/8" CTC Projection: 1 3/4"	PUL210	US3, 28
		3/4" x 1/2" Ellipse, 5 1/2" CTC Projection: 1 3/4"	PUL211	US3, 10B, US15, 26, US32D
	<b>Heavy Cast Aluminum Door Pull</b> <ul style="list-style-type: none"> <li>▶ Exposed Screws</li> <li>▶ Thru-Bolt option included for heavy duty installation</li> </ul>	7 3/8" x 1 1/2" Projection: 2 1/16"	PULL715	Alum, Duro
	<b>Night Latch Cylinder Pull</b> <ul style="list-style-type: none"> <li>▶ Stainless Steel</li> <li>▶ Individually poly-bagged</li> <li>▶ Surface Mounting</li> <li>▶ Accepts Rim Cylinder (order separately)</li> </ul>	Cylinder Hole: 1 3/16" diameter Height: 3 1/2" Pull Projection: 1"	PUL-175	US32D, US10B



## DOOR PULLS

ILLUSTRATION	ITEM	SIZE	ITEM #	FINISH
	<b>Modern Hospital Double Pull Arm</b> <ul style="list-style-type: none"><li>▶ with <b>Microban Anti-Microbial Coating</b></li><li>▶ Aluminum Material</li><li>▶ Meets ANSI 156.6 for J401 Pulls</li><li>▶ Type 1 Thru-Bolt and Finish Washer for 1 3/4" thick doors</li><li>▶ Individually packed with guide sticker</li><li>▶ Easy installation</li></ul>	8 1/2" x 1", 5 1/4" CTC Material Size: 3/8" x 1" Projection: 3 3/4"	HPUL-850 <b>NEW ITEM</b>	US15, US1
	<b>Modern Hospital Double Pull Arm with Push Plate</b> <ul style="list-style-type: none"><li>▶ Push plate packed together with <b>HPUL-850</b></li><li>▶ Covers any exit hole from the inside</li><li>▶ Easy Installation</li></ul>	Push Plate Size: 0.050" x 3 1/2" x 15"	HPUSH-3515	US32D, US1
	Push Plate Size: 0.050" x 4" x 16"	HPUSH-4016		
	<b>Hands-Free Wrist Door Pull</b> <ul style="list-style-type: none"><li>▶ Steel Material</li><li>▶ Individually packed with combination screws</li><li>▶ for Wood or Metal doors</li><li>▶ Easy installation</li></ul>	2" x 2 3/4" Projection: 3" Gauge: 1/8"	HFPUL-22 <b>NEW ITEM</b>	ALUM, US1
	<b>Hands-Free Foot Door Pull</b> <ul style="list-style-type: none"><li>▶ Steel Material</li><li>▶ Individually packed with sexbolts and combination screws</li><li>▶ for Wood or Metal doors</li><li>▶ Easy installation</li></ul>	4 3/8" x 1 1/8" Projection: 3 1/16" Gauge: 1/8"	HFPUL-41 <b>NEW ITEM</b>	US1
DOOR KNOCKERS AND VIEWERS				
	<b>Solid Brass Door Knocker</b> <ul style="list-style-type: none"><li>▶ Conforms to ANSI / BHMA A156.16 L23151</li><li>▶ Similar to IVES #3125</li></ul>	Dimensions: 3" x 6 3/8" Screw Holes: 4 1/8" CTC	SBDK356	US3, 5, 10B, US26, 26D, US15, 15A


## DOOR KNOCKERS AND VIEWERS

ILLUSTRATION	ITEM	SIZE	ITEM #	FINISH
	<b>Solid Brass Door Knocker</b> <ul style="list-style-type: none"> <li>► Conforms to ANSI / BHMA A156.16 L23151</li> <li>► Similar to IVES #3102</li> </ul>	Dimensions: 2 1/8" x 3 3/4" Screw Holes: 3 3/8" CTC	SSBDK234	US3, 10B, US15
OPTIONAL  	<b>Door Knocker with 160° Viewer</b> <ul style="list-style-type: none"> <li>► Conforms to ANSI / BHMA A156.16 L23151</li> <li>► Diecast material</li> <li>► ULDK93 is UL Listed for 90-minute doors</li> </ul>	Dimensions: 1 3/4" x 4" Screw Holes: 2 1/2" CTC for Doors: 1 3/8" - 1 3/4" thick	DK93 (Non-UL)	US3, 5, 26D, US10B, 15, US15A
			ULDK93 (UL-Listed)	US3, 5, 26D, US10B, 15
	<b>Door Knocker With 180° Viewer</b> <ul style="list-style-type: none"> <li>► Conforms to ANSI / BHMA A156.16 L23151</li> <li>► Diecast material</li> </ul>	Bore: 9/16" Size: 2 3/8" x 5 1/2" for Doors: 1 3/8" - 1 3/4" thick Screw Holes: 3 3/8" CTC Non UL	DK94	US3, 5, 26D, US10B, 15, US15A
	<b>Brass Door Viewer, 160° Plastic Lens</b> <ul style="list-style-type: none"> <li>► Conforms to ANSI / BHMA A156.16 L23172</li> </ul>	Bore: 1/2" for Doors: 1 3/8" - 2 1/4" thick	DV90	US3, 5, 26, US26D, 15, US10B, 19
	<b>Brass Door Viewer, 180° Plastic Lens</b> <ul style="list-style-type: none"> <li>► Conforms to ANSI / BHMA A156.16 L23172</li> </ul>	Bore: 1/2" for doors: 1 3/8" - 2" thick	DV91	US3, 5, 26, US26D, 15, US10B, 19
	<b>Brass Door Viewer, 180° Plastic Lens</b> <ul style="list-style-type: none"> <li>► Conforms to ANSI / BHMA A156.16 L23172</li> </ul>	Bore: 9/16" for doors: 1 3/8" - 2" thick	DV180	US3, 5, 26, US26D, 15, US10B, 15A, US19
 	<b>Door Viewer, 160° Glass Lens</b> <ul style="list-style-type: none"> <li>► UL Listed For 90-Minute Doors</li> <li>► Conforms to ANSI / BHMA A156.16 L23172</li> </ul>	Bore: 1/2" for doors: 1 3/8" - 2" thick	ULDV160	US3, 15, 26, US26D, 10A, US10B, 19
 	<b>Door Viewer, 200° Glass Lens</b> <ul style="list-style-type: none"> <li>► UL Listed For 90-Minute Doors</li> <li>► Conforms to ANSI / BHMA A156.16 L23172</li> </ul>	Bore : 9/16" for doors: 1 3/8" - 2 1/4" thick	ULDV200	US3, 15, 26, US26D, 10A, US10B, 19
		Bore : 9/16" for doors: 1" - 1 3/8" thick	10ULDV201	US3, 15, US26D, 10B


## DOOR VIEWERS

ILLUSTRATION	ITEM	SIZE	ITEM #	FINISH
	<b>200° Door Viewer with Heavy Duty Privacy Cover</b> <ul style="list-style-type: none"> <li>▶ UL Listed for 20 minutes</li> <li>▶ Architectural finishes available</li> </ul>	1" Head diameter Bore: $\frac{9}{16}$ " for doors: 1 $\frac{3}{8}$ " - 2 $\frac{1}{4}$ " thick	PRIULDV200	US3, 10B, US15, 26, US26D, US4, 19
	<b>Door Viewer Cover</b> <ul style="list-style-type: none"> <li>▶ to be used with DV90, DV91, ULDV160 door viewers</li> <li>▶ Architectural finishes available</li> </ul>	Cover: $\frac{1}{2}$ "	COV160	US3, 15, US10B, US26D
	<b>Door Viewer Cover</b> <ul style="list-style-type: none"> <li>▶ to be used with DV180, ULDV200, 10ULDV201 door viewers</li> <li>▶ Architectural finishes available</li> </ul>	Cover: $\frac{9}{16}$ "	COV200	

## ELECTRONIC DIGITAL DOOR VIEWER








	<b>Electronic Digital Door Viewer</b> <ul style="list-style-type: none"> <li>▶ Supported Existing Door Bores</li> <li>▶ Fully Integrated Digital Camera and LCD Display</li> <li>▶ Quick and Easy Installation</li> <li>▶ Clear Large Image 0.3 Mega Pixels CMOS Resolution</li> <li>▶ Easy Operation</li> <li>▶ Convenient for children and elderly</li> <li>▶ Provides additional privacy</li> <li>▶ 3 x AA Batteries</li> </ul>	<ul style="list-style-type: none"> <li>• <math>\frac{1}{2}</math>" - 1 <math>\frac{1}{8}</math>" Diameter (13mm - 29mm)</li> <li>• 3.5" TFT, (90mm)</li> <li>• 320x240 resolution LCD Viewer</li> <li>Screen size</li> <li>• 8.5oz (240g) Net Weight</li> </ul>	ELDVBEL150	Silver, Duro, Gold
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## DOOR GUARDS

	<b>Privacy Door Latch</b> <ul style="list-style-type: none"> <li>▶ Zinc Diecast material</li> <li>▶ UL Listed</li> <li>▶ Architectural finishes available</li> </ul>	Height: 2 $\frac{1}{8}$ " Width (Base): 1 $\frac{1}{2}$ " Weight: 0.65 lbs/unit Opening Angle: 87°	HPDL258	US3, 4, US10B, 26, US26D, 19
	<b>HPDL Disengage Tool</b> <ul style="list-style-type: none"> <li>▶ Steel material</li> </ul>	Height: 9 $\frac{1}{2}$ " Width: $\frac{1}{2}$ " Hook Length: 2 $\frac{1}{2}$ " Thickness: 0.016"	PDL-200 <b>NEW ITEM</b>	None



## DOOR GUARDS

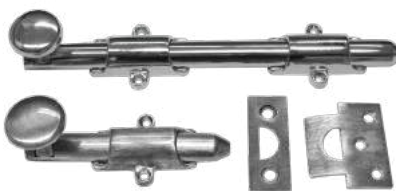






ILLUSTRATION	ITEM	SIZE	ITEM #	FINISH
	<b>Solid Brass Chain Door Guard</b> <ul style="list-style-type: none"> <li>▶ Welded solid steel chains to prevent forced entry</li> <li>▶ Conforms to ANSI / BHMA A156.16</li> <li>▶ Architectural finishes available</li> </ul>	Chain: 6 3/4"	DG22	US3, US5, US26
	<b>Zinc Diecast Swing Bar Door Guard</b> <ul style="list-style-type: none"> <li>▶ Ball Bearing Stop Guide</li> <li>▶ Diecast material</li> <li>▶ Architectural finishes available</li> </ul>	2 1/16" x 4 1/4"	BBDHG88	US3, 4, 5, US26, 26D, US10B, US1
	<b>Diecast Swing Bar Door Guard</b> <ul style="list-style-type: none"> <li>▶ Protective rubber insert on both sides of arm</li> <li>▶ Architectural finishes available</li> </ul>	2 1/2" x 4 1/2"	PDG88	US3, 4, 10B, US26, 26D
	<b>Solid Brass Door Guard Packed With Angle Protector</b> <ul style="list-style-type: none"> <li>▶ Ball Bearing stop guide</li> <li>▶ Packed with Door Angle Protector to avoid scarring the door or frame</li> <li>▶ Conforms to ANSI / BHMA A156.16</li> <li>▶ Architectural finishes available</li> </ul>	Arm length: 4 3/4"	SBDG00	US26D, 3, 4, US26, 10B, US1, 15
	<b>Door Angle Protector</b> <ul style="list-style-type: none"> <li>▶ Door angle protector comes with adhesive and individual screw for secure mounting</li> <li>▶ Designed for use with BBDHG88 and PDG88</li> <li>▶ Architectural finishes available</li> </ul>	Thickness: 0.036" Dimensions: 1/2" x 1" x 1 1/8"	DAP77	US26D, 26, US3, 4, 5, US10B
	<b>Door Guard Shim</b> <ul style="list-style-type: none"> <li>▶ To be used when face of door is recessed from face of jamb</li> <li>▶ Fits under Door Guard</li> <li>▶ Use with BBDHG88 and PDG88</li> </ul>	Dimensions: 5/8" x 2 5/16" Thickness: 1/8"	DGS39	Black
	<b>Door Guard Shim</b> <ul style="list-style-type: none"> <li>▶ To be used when face of door is recessed from face of jamb.</li> <li>▶ Fits under Door Guard sector which attaches to door</li> <li>▶ Use with SBDG00</li> </ul>	Dimensions: 1 1/8" x 1 11/16" Thickness: 1/8"	DGS100	Black

## SLIDING DOOR LOCKS

ILLUSTRATION	ITEM	SIZE	ITEM #	FINISH
	<b>Heavy Duty Privacy Sliding Door Lock Function</b> <ul style="list-style-type: none"> <li>▶ Heavy Duty</li> <li>▶ Privacy sliding door lock function</li> <li>▶ Easy installation onto pocket-type interior doors with just a simple cut in door edge</li> <li>▶ Architectural finishes available</li> </ul>	Standard Door Prep: 2 7/8" (L) x 1 3/4" (W) can be used on: 1 3/8" and 1 3/4" door thickness	PRIPDL21	US3, 5, 26, US26D, 15, US15A, 10B
	<b>Heavy Duty Passage Sliding Door Lock Function</b> <ul style="list-style-type: none"> <li>▶ Heavy Duty</li> <li>▶ Passage sliding door lock function</li> <li>▶ Architectural finishes available</li> </ul>	Standard Door Prep: 2 7/8" (L) x 1 3/4" (W) can be used on: 1 3/8" and 1 3/4" door thickness	PASPD34	US3, 5, 26, US26D, 15, US15A, 10B
	<b>Privacy Sliding Door Lock</b> <ul style="list-style-type: none"> <li>▶ Comparable to Quality No. 101</li> <li>▶ Sliding door lock and pull for passageway (pocket) doors</li> <li>▶ Decorative Coined Edges</li> <li>▶ Reversible (Non-Handed)</li> </ul>	Standard Door Prep: 2 1/4" (L) x 1 3/4" (W) For use on doors: 1 3/8" - 1 3/4" thick Use <b>SDLPIN</b> for 1 3/4" doors	SDL16	US3, 5, 10B US19, 26, US26D, 15, US15A, US5/26 US3/26
	<b>Passage Sliding Door Lock</b> <ul style="list-style-type: none"> <li>▶ Comparable to Quality No. 100</li> <li>▶ Sliding door lock and pull for passageway (pocket) doors</li> <li>▶ Easy installation onto pocket-type interior doors with just a simple cut in door edge</li> </ul>	Standard Door Prep: 2 1/4" (L) x 1 3/4" (W) For use on doors: 1 3/8" and 1 3/4" thick	SDL17	US3, 5, 10B US19, 26, US26D, 15, US15A, US3/26
	<b>Strike</b> <ul style="list-style-type: none"> <li>▶ Strike for privacy SDL</li> <li>▶ Architectural finishes available</li> </ul>	Dimensions: 0.046" x 1" x 2 1/4"	STRKSDL	US3, 5, 26, US26D, 15, US15A, 10B



## SLIDING DOOR LOCKS

ILLUSTRATION	ITEM	SIZE	ITEM #	FINISH
	<b>Edge Pull, Flush Mount</b> <ul style="list-style-type: none"> <li>▶ Flush Mounted</li> <li>▶ Conforms to ANSI / BHMA A156.14 D2801</li> </ul>	Dimensions: $\frac{5}{8}$ " x 3 $\frac{1}{2}$ " Projection: 1 $\frac{1}{4}$ "	EP23	US5
	<b>Privacy Sliding Door Lock</b> <ul style="list-style-type: none"> <li>▶ 2 <math>\frac{3}{8}</math>" Backset</li> <li>▶ With easy pop-up finger pull</li> <li>▶ Easy installation onto pocket-type interior doors</li> </ul>	1 $\frac{3}{8}$ " to 1 $\frac{3}{4}$ " Door Thickness	18SDLR	US10B, 15 US26, 26D
	<b>Privacy Sliding Door Lock</b> <ul style="list-style-type: none"> <li>▶ 2 <math>\frac{3}{4}</math>" Backset</li> <li>▶ With easy pop-up finger pull</li> <li>▶ Easy installation onto pocket-type interior doors</li> </ul>	1 $\frac{3}{8}$ " to 1 $\frac{3}{4}$ " Door Thickness	20SDLR	US26D
	<b>Passage Sliding Door Lock</b> <ul style="list-style-type: none"> <li>▶ 2 <math>\frac{3}{8}</math>" Backset</li> <li>▶ With easy pop-up finger pull</li> <li>▶ Easy installation onto pocket-type interior doors</li> </ul>	1 $\frac{3}{8}$ " to 1 $\frac{3}{4}$ " Door Thickness	14SDLR	US10B, 15 US26, 26D
	<b>Passage Sliding Door Lock</b> <ul style="list-style-type: none"> <li>▶ 2 <math>\frac{3}{4}</math>" Backset</li> <li>▶ With easy pop-up finger pull</li> <li>▶ Easy installation onto pocket-type interior doors</li> </ul>	1 $\frac{3}{8}$ " to 1 $\frac{3}{4}$ " Door Thickness	30SDLR	US26D
	<b>Privacy Pocket Door Lock</b> <ul style="list-style-type: none"> <li>▶ 2 <math>\frac{3}{8}</math>" Backset</li> <li>▶ Auto-catch Lock Mechanism</li> <li>▶ Fits standard 2 <math>\frac{1}{8}</math>" Door Prep</li> <li>▶ Easy installation onto pocket-type interior doors</li> </ul>	1 $\frac{3}{8}$ " Door Thickness	RSDL20	US3, 5, US10B, 15, US15A, 19, US26, 26D
		1 $\frac{3}{4}$ " Door Thickness	134RSDL20	
	<b>Dummy Pocket Door Lock</b> <ul style="list-style-type: none"> <li>▶ Fits standard 2 <math>\frac{1}{8}</math>" Door Prep</li> <li>▶ Easy installation onto pocket-type interior doors</li> </ul>	1 $\frac{3}{8}$ " Door Thickness	RSDL40	US3, 5, US10B, 15, US15A, 19, US26, 26D
		1 $\frac{3}{4}$ " Door Thickness	134RSDL40	

SECURITY BOLTS				
ILLUSTRATION	ITEM	SIZE	ITEM #	FINISH
	<b>Solid Brass Decorative Dutch Door Bolt</b> <ul style="list-style-type: none"><li>▶ Heavy Duty with decorative design adapts to any decor</li><li>▶ Packed with mortise and universal strikes</li><li>▶ 1 ¼" diameter decorative knob</li><li>▶ Conforms to ANSI / BHMA A156.16</li><li>▶ Architectural finishes available</li></ul>	4"	DDSB4	US3, 5 ,26, US15, 15A, US10B, US1
		8"	DDSB8	
		12"	DDSB12	
		18"	DDSB18	
		24"	DDSB24	
	<b>Angle Strike</b> <ul style="list-style-type: none"><li>▶ Solid Brass Base</li><li>▶ Packed with screws</li><li>▶ Architectural finishes available</li></ul>	Screw Holes: 1 ⅜" CTC	ANGSTRK	US3, 5 ,26, US15, 15A, US10B
	<b>Brass Surface Bolt</b> <ul style="list-style-type: none"><li>▶ Brass construction</li><li>▶ Packed individually</li><li>▶ Poly-bagged with 2 strikes and screws</li><li>▶ Architectural finishes available</li><li>▶ BHMA L04151</li></ul>	3"	SB873	US3, 5 ,26, US15, 15A, US10B
		4"	SB874	
		6"	SB876	
		12"	SB8712	
	<b>Decorative Surface Bolt</b> <ul style="list-style-type: none"><li>▶ Packed individually</li><li>▶ Poly-bagged with 2 strikes and screws</li><li>▶ Comparable to IVES #043</li><li>▶ Conforms to ANSI / BHMA A156.16</li><li>▶ Architectural finishes available</li></ul>	4"	DCSB4	US3, 5, 15, US15A, 10B, US26, 26D
		6"	DCSB6	
 <b>NEW ITEM</b> SMB85R	<b>Steel Flush Bolts (SMB85R) and Solid Brass Flush Bolts (MB85R / MB86S)</b> <ul style="list-style-type: none"><li>▶ Designed for superior strength and smooth operation</li><li>▶ Deep cup finger hole and double action spring combine to assure ease of operation and automatic holding of bolt in either projected or retracted position</li><li>▶ Includes strike and fastener</li><li>▶ Architectural finishes available</li><li>▶ BHMA L04201</li></ul>	Bolt Head: Diameter: ½" Throw: 1" Length: 6" Width: ¾"	SMB85R (Round Edge) Steel	US10B, 15, US26D
 MB85R MB86S			MB85R (Round Edge) Solid Brass	US3, 5, 10B US15, 15A, US26, 26D, US1
			MB86S (Square Edge) Solid Brass	
	<b>Strike for MB85R and MB86S</b> <ul style="list-style-type: none"><li>▶ Individually poly-bagged</li><li>▶ Packed with 2 screws</li><li>▶ Architectural finishes available</li></ul>	Size: 1" x 2" Screw holes: 1 ⅜" CTC	STRKMB85R	US3, 5, 15, US15A, 26, US26D, 10B











## SECURITY BOLTS

ILLUSTRATION	ITEM	SIZE	ITEM #	FINISH
	<b>Solid Brass Single Route Flush Bolt</b> <ul style="list-style-type: none"> <li>► Designed for superior strength and smooth operation</li> <li>► Individually poly-bagged</li> <li>► Packed with strike and 2 sets of screws</li> <li>► Architectural finishes available</li> </ul>	Dimensions Length: 7" Width: ¾" Bolt Head Diameter: 5/16" Throw: ¾"	FBG6	US3, 5, 26, US26D, 15, US15A, 10B
	<b>Strike for FBG6 and FBGEX12</b> <ul style="list-style-type: none"> <li>► Individually poly-bagged</li> <li>► Packed with screws</li> <li>► Architectural finishes available</li> </ul>	Dimensions 1 ½" x 5/8" Screw Holes 1" CTC	STRKFBG6	US3, 5, 26, US26D, 15, US15A, 10B
	<b>Solid Brass Single Route Extension Flush Bolt</b> <ul style="list-style-type: none"> <li>► Rounded at both ends</li> <li>► Designed for superior strength and smooth operation</li> <li>► Individually poly-bagged</li> <li>► Packed with strike and 2 sets of screws</li> <li>► Architectural finishes available</li> </ul>	Dimensions Length: 7 ½" Width: ¾" Bolt Head Diameter: 5/16" Throw: 7/8" Rod Length: 18"	FBGEX12	US3, 5, 26, US26D, 15, US15A, 10B
	<b>Flip Style Mortise Flush Bolt</b> <ul style="list-style-type: none"> <li>► Designed for superior strength and smooth operation</li> <li>► Individually poly-bagged</li> <li>► Packed with strike and 2 sets of screws</li> <li>► Architectural finishes available</li> </ul>	Dimensions Length: 7" Width: ¾" Throw: ¾" Strike 1 ½" x 5/8"	FLPFB400	US3, US5, US10B, 15, US15A, 26, US26D
	<b>Flip Style Mortise Flush Bolt with 18" Extension Rod</b> <ul style="list-style-type: none"> <li>► Designed for superior strength and smooth operation</li> <li>► Individually poly-bagged, packed per pair</li> <li>► Packed with strike and 2 sets of screws</li> <li>► Architectural finishes available</li> </ul>	Dimensions: Length: 7 7/16" Width: ¾" Throw: 11/16"; Strike 1 ½" x 5/8"	EXTFB-1	US3, US5, US10B, 15, US15A, 26, US26D
	<b>Diecast Base, Single Route Flush Bolt</b> <ul style="list-style-type: none"> <li>► Designed for superior strength and smooth operation</li> <li>► Deep cup finger hole and double action spring combine to assure ease of operation and automatic holding of bolt in either projected or retracted position</li> <li>► Includes strike and screws</li> <li>► Architectural finishes available</li> </ul>	Dimensions Length: 6 ¾" Width: ¾" Bolt Head Diameter: 5/16" Throw: ¾"	ZDFB800	US3, 5, US26, 26D, US15, 10B
 	<b>UL Listed Commercial Surface Bolts</b> <ul style="list-style-type: none"> <li>► Offers tamper-resistant mounting</li> <li>► Can be used for both in-swinging and out-swinging doors</li> <li>► Available with both mortise and universal strikes</li> <li>► Conforms to ANSI / BHMA A156.16, L04161</li> </ul>	Dimensions Length: 8" Width: 1" Bolt Head Dia.: 5/16" Throw: 1" Projection: 1 5/8"	UL453 (SBUL8 before)	US26D





## SECURITY BOLTS

ILLUSTRATION	ITEM	SIZE	ITEM #	FINISH
	<b>UL Listed Heavy Duty Commercial Surface Bolts</b> <ul style="list-style-type: none"> <li>Offers tamper-resistant mounting</li> <li>Can be used for both in-swinging and out-swinging doors</li> <li>Available with both mortise and versal strikes</li> <li>Conforms to ANSI / BHMA A156.16, L04161</li> </ul>	<b>Dimensions:</b> Length: 8"; Width: 3/4" Projection: 1 5/16" Bolt Throw: 1"	UL831 (ESBUL50 before)	US26D
		<b>Dimensions:</b> Length: 12"; Width: 3/4" Projection: 1 5/16" Bolt Throw: 1"	UL831-12 (ESBUL12 before)	
	<b>UL Listed Solid Brass Lever Extension Flush Bolt</b> <ul style="list-style-type: none"> <li>Non-handed</li> <li>UL Listed for fire-rated metal doors</li> <li>5/8" Throw</li> <li>Bolt tip is 1/2" Diameter</li> <li>Conforms to ANSI / BHMA A156.16, L04081</li> <li>Optional Rod lengths available: 12", 18", 24", 36", 48"</li> <li>Architectural finishes available</li> </ul>	<b>Body:</b> Length: 6 3/4"; Width: 1" Depth: 1 1/8" <b>Guide:</b> Length: 2"; Width: 1" Thickness: 5/64" <b>Strike:</b> Length: 2 1/4"; Width: 15/16" Thickness: 3/32" <b>Rod:</b> 1/4" - 20 Threaded	MF6341	US3, 4, 5, US10, 10B, US15, 15A, US26, 26D, L1
	<b>Strike for MF6341</b> <ul style="list-style-type: none"> <li>Individually poly-bagged</li> <li>Packed with screws</li> <li>Architectural finishes available</li> </ul>	<b>Dimensions:</b> 2 1/4" x 15/16" <b>Thickness:</b> 3/32" <b>Screw Holes:</b> 1 5/8" CTC	STRKMF	US3, 10B, US15, 26, US26D
	<b>UL Listed Solid Brass Lever Extension Flush Bolt</b> <ul style="list-style-type: none"> <li>Commercial Type</li> <li>5/8" Throw</li> <li>Especially designed for wood or composite doors</li> <li>Conforms to ANSI / BHMA A156.16, L04081</li> <li>Architectural finishes available</li> </ul>	<b>Body:</b> Length: 6 3/4"; Width: 1" Depth: 1 1/4" <b>Guide:</b> Length: 2 1/2"; Width: 1" Thickness: 5/64" <b>Strike:</b> Length: 2 1/4"; Width: 1" Thickness: 5/64"	WF6341	US3, 10B, US26, 26D, US15
 <div style="position: absolute; bottom: 10px; right: 10px; background-color: black; color: white; padding: 2px 5px; font-weight: bold;">NEW ITEM</div>	<b>Stainless Steel, UL Listed Flip Style Mortise Flush Bolt</b> <ul style="list-style-type: none"> <li>Non-Handed</li> <li>UL Listed No. R14281</li> <li>Bolt tip is 1/2" Diameter</li> <li>3/4" Throw</li> <li>Conforms to ANSI / BHMA A156.16</li> <li>Optional Rod lengths available: 12", 18", 24", 36", 48"</li> </ul>	<b>Body:</b> Length: 6 3/4"; Width: 1" Depth: 1" <b>Guide:</b> Length: 2"; Width: 1" Thickness: 1/16" <b>Strike:</b> Length: 2 1/4"; Width: 7/8" Thickness: 1/16" <b>Rod:</b> 12" from center of flush bolt to the tip of the bolt	FBS-100	US32D, US10B
	<b>Stamped Brass Commercial Manual Flush Bolt</b> <ul style="list-style-type: none"> <li>Non-Handed</li> <li>Stamped Brass Design</li> <li>Bolt tip is 1/2" Diameter</li> <li>Optional Rod lengths available 18", 24", 36", 48"</li> <li>Architectural finishes available</li> </ul>	<b>Body:</b> Length: 6 3/4"; Width: 1" Depth: 1 1/4" <b>Guide:</b> Length: 2"; Width: 1" Thickness: 5/64" <b>Strike:</b> Length: 2 1/4"; Width: 1" Thickness: 5/64"	SBFB825	US3, 10B, US15, 26D

## AUTO FLUSH BOLTS

AUTOFLM1	AUXAUTOFLM1	AUTOFLW22	AUXAUTOFLW22	SLAUTOFLM3	SLAUTOFLW4	AUXSLAFLM3	AUXSLAFLW4				
 <p>TOP BOLT</p> <p>BOTTOM BOLT</p>	 <p>TOP BOLT</p> <p>AUXILIARY FIRE LATCH</p>	 <p>TOP BOLT</p> <p>BOTTOM BOLT</p>	 <p>TOP BOLT</p> <p>AUXILIARY FIRE LATCH</p>	 <p>TOP BOLT</p> <p>BOTTOM BOLT</p>	 <p>TOP BOLT</p> <p>BOTTOM BOLT</p>	 <p>TOP BOLT</p> <p>AUXILIARY FIRE LATCH</p>	 <p>TOP BOLT</p> <p>AUXILIARY FIRE LATCH</p>				
FEATURES AND CONSTRUCTION				AUTOFLM1	AUXAUTOFLM1	AUTOFLW22	AUXAUTOFLW22	SLAUTOFLM3	SLAUTOFLW4	AUXSLAFLM3	AUXSLFLW4
UL Listed for (A, B, C, D and E Label) metal fire doors, maximum 8' in height. Conforms to UL10C and UBC 7-2-1997.				✓	✓			✓		✓	
UL Listed for (B, C, D and E Label) wood composite core fire doors, maximum 8' in height. Conforms to UL10C and UBC 7-2-1997.						✓	✓		✓		✓
Fits standard and ANSI preparation for wood doors.						✓	✓		✓		✓
Fits standard and ANSI preparation for metal doors.				✓	✓			✓		✓	
Override feature, prevents damage to doors of frame in case the strike and bolt are not aligned.				✓	✓	✓	✓	✓	✓	✓	✓
Reversible, Non-Handed.				✓	✓	✓	✓	✓	✓	✓	✓
Steel body with stainless steel components, especially designed thermal lock automatically locks inactive door in case of fire.				✓	✓	✓	✓	✓	✓	✓	✓
Smooth easy action, requires 5 lbs of force to actuate cam and piston mechanism, therefore meeting ADA regulations.				✓	✓	✓	✓	✓	✓	✓	✓
Fully automatic, when active door is opened top and bottom bolts are automatically retracted for easy egress. When active door is closed ¾" bolt projects into the frame, securing latching of inactive leaf.				✓	✓	✓	✓	✓	✓	✓	✓
Bolts have 1" vertical adjustment without removing door from frame for unusual conditions.						✓	✓		✓		✓
Bolts have ¾" vertical adjustment without removing door from frame for unusual conditions.				✓	✓			✓		✓	
Available in Architectural Finishes. Packed 2 bolts per box with composite installation template.				✓		✓		✓	✓	✓	
Available in Architectural Finishes. Packed 1 top bolt and 1 auxiliary fire latch per box with composite installation template. Used where a fire-rating application without a bottom bolt is required. The auxiliary fire latch, mounted in the door edge, releases under extremely high temperatures to keep the doors in alignment during a fire.					✓		✓			✓	✓

## UNIVERSAL FLUSH BOLTS






UNIVERSAL AUTOMATIC FLUSH BOLT	UNIVERSAL SELF-LATCHING FLUSH BOLT	UNIVERSAL FLUSH BOLT & BOTTOM FIRE LATCH BOLT			
UNIFB820	UNIFB780	UNIFB930	UNIFB540		
 <p>UNIFB810 TOP BOLT</p> <p>UNIFB810 BOTTOM BOLT</p>	 <p>UNIFB710 TOP BOLT</p> <p>UNIFB810 BOTTOM BOLT</p>	 <p>UNIFB710 TOP BOLT</p> <p>UNIFL001 BOTTOM FIRE LATCH BOLT</p>	 <p>UNIFB810 TOP BOLT</p> <p>UNIFL001 BOTTOM FIRE LATCH BOLT</p>		
FEATURES & CONSTRUCTION		UNIFB820	UNIFB780	UNIFB930	UNIFB540
UL Listed for (A, B, C, D and E Label) metal fire doors, maximum 8' in height. Conforms to UL10C and UBC 7-2-1997.		✓	✓	✓	✓
UL Listed for (B, C, D and E Label) wood composite core fire doors, maximum 8' in height. Conforms to UL10C and UBC 7-2-1997.		✓	✓	✓	✓
Fits standard and ANSI preparation for wood doors.		✓	✓	✓	✓
Fits standard and ANSI preparation for metal doors.		✓	✓	✓	✓
Override feature, prevents damage to doors of frame in case the strike and bolt are not aligned.		✓	✓	✓	✓
Reversible, non-handed.		✓	✓	✓	✓
Steel body with stainless steel components, especially designed thermal lock automatically locks inactive door in case of fire.		✓	✓ (bottom only)		✓
Fully automatic, when active door is opened top and bottom bolts are automatically retracted for easy egress. When active door is closed 3/4" bolt projects into the frame, securing latching of inactive leaf.		✓	✓ (bottom only)		✓
Bolts have 5/8" vertical adjustment without removing door from frame for unusual conditions.		✓	✓	✓	✓
Available in Architectural Finishes. Packed 2 bolts per box with composite installation template.		✓	✓		
Available in Architectural Finishes. Packed 1 top bolt and 1 auxiliary fire latch per box with composite installation template. Used where a fire-rating application without a bottom bolt is required. The auxiliary fire latch, mounted in the door edge, releases under extremely high temperatures to keep the doors in alignment during a fire.				✓	✓



## DOOR COORDINATORS

ILLUSTRATION	ITEM	SIZE	ITEM #	FINISH
	<b>UL Listed, Gravity Coordinator</b> <ul style="list-style-type: none"> <li>Used on pairs of doors with or without an astragal</li> <li>Adjustable for ease of installation</li> <li>It features a <b>Nylon Roller</b> to enable the inactive door to easily operate the coordinating device</li> <li>Base Material: Forged Brass</li> <li>Architectural finishes available</li> <li>BHMA: 4.1.1 Type 21B</li> </ul>	Projection: 7"	FRGCO65	US26D, US10B, 3, US4, 5, US10, 26
		Projection: 8"	FRGCO085	
 <p>DORCO1</p> <p>Filler Bar</p> <p>UNICO-17</p>	<b>UL Listed, Door Coordinator</b> <ul style="list-style-type: none"> <li>Door coordinator for fire labeled doors</li> <li>Automatic coordinating device for sequential closing of paired doors with or without astragal</li> <li>Non-handed</li> <li>For use with frame openings 60", 72" or 84"</li> <li>Includes 18 5/8" Filler Bar (FB1858)</li> <li>Material: All Metal construction</li> <li>Conforms to ANSI / BHMA A156.3, Type 21A</li> </ul>	Frame Openings: 60" and 72"	DORCO1	Black, Alum
		18 5/8" for up to 72" door	FB1858	
	<b>Filler Bar</b>	32 5/8" for up to 96" door	FB3258	
	<b>Universal Door Coordinator</b> <ul style="list-style-type: none"> <li>Used for pair of doors up to 8' wide.</li> <li>Non-Handed; Adjustable arm lengths for multiple door sizes.</li> <li>Stop mounted - no mounting brackets required when using stop mounted hardware.</li> <li>Material: Steel</li> </ul>	Dimensions: 20 1/8" x 1 9/16" x 13/16" Adjustable Arm Length: 7 3/4" up to 9 3/16"	UNICO-17 <b>NEW ITEM</b>	Black, Alum
	<b>Carry Bar</b> <ul style="list-style-type: none"> <li>Used on pair of doors with astragal</li> <li>For situations when the inactive door can be opened first.</li> </ul>	Plate: 1 3/4" x 2 1/4" Fasteners: 1/4" x 20 Sex Bolts	CBO-1	Black, Alum
 <p>MB4250</p> <p>MB4750</p>	<b>Mounting Brackets</b>	Jamb Depth: 4 1/4" Stop Height: 5/8" Stop Width: 2 1/4" and over	MB4250	Black
		Jamb Depth: 4 3/4" Stop Height: 5/8" Stop Width: 7/8" to 2 1/4"	MB4750	

## HANDRAIL BRACKETS

ILLUSTRATION	ITEM	SIZE	ITEM #	FINISH
	<b>Jumbo Heavy Duty Handrail Bracket</b> <ul style="list-style-type: none"> <li>▶ Diecast Aluminum material</li> <li>▶ Contemporary design</li> <li>▶ Single screw wall mount for minimal damage to wall</li> <li>▶ Individually poly-bagged</li> <li>▶ Packed with mounting screws</li> <li>▶ Easy installation</li> <li>▶ Conforms to ANSI / BHMA A156.16 L13061</li> <li>▶ Architectural finishes available</li> </ul>	Wall Mount: 2 1/8" dia. Height: 2 7/8" Width: 2 1/8" Projection: 2 7/8"	JUHB28	US3, 5, US15, 15A, US26, 10B, US1, 26D
	<b>Handrail Bracket</b> <ul style="list-style-type: none"> <li>▶ Diecast material</li> <li>▶ Individually poly-bagged with screws</li> <li>▶ Conforms to ANSI / BHMA A156.16 L33061</li> <li>▶ Architectural finishes available</li> </ul>	Height: 2 7/8" Width: 1 3/16" Projection: 2 7/8"	HB96	US3, 5, US15, 15A, US26, 10B, US26D
	<b>Heavy Duty Cast Aluminum Handrail Bracket</b> <ul style="list-style-type: none"> <li>▶ Diecast material</li> <li>▶ Individually poly-bagged with screws</li> <li>▶ Conforms to ANSI / BHMA A156.16 L33061</li> <li>▶ Architectural finishes available</li> </ul>	Height: 3 1/4" Width: 1 7/16" Projection: 3 1/4"	HDHB40	US3, 5, US15, 15A, US26, 26D, US10B, US1
	<b>Heavy Duty Handrail Bracket</b> <ul style="list-style-type: none"> <li>▶ Diecast material</li> <li>▶ Contemporary design</li> <li>▶ Individually poly-bagged with screws</li> <li>▶ Easy installation</li> <li>▶ Conforms to ANSI / BHMA A156.16 L13061</li> <li>▶ Architectural finishes available</li> </ul>	Height: 2 3/4" Width: 1 3/8" Projection: 3 1/4"	DMHB83	US3, 10B, US15, 15A, US26D, 26
	<b>ADA-APPROVED Heavy Duty Cast Handrail Bracket</b> <ul style="list-style-type: none"> <li>▶ Conforms and Meets ADA Regulations</li> <li>▶ Conforms to ANSI / BHMA A156.16 L13061</li> <li>▶ Diecast material</li> <li>▶ Contemporary design</li> <li>▶ Individually poly-bagged with screws</li> <li>▶ Easy installation</li> </ul>	Height: 3 1/2" Width: 1 5/16" Projection: 4"	ADAHB-4	US3, 5, US10B, 15, US15A, 26, US26D

## WALL DOOR STOPS / BUMPERS




ILLUSTRATION	ITEM	SIZE	ITEM #	FINISH
	<b>Solid Brass or Stainless Steel (US32D) Concave Wall Stop</b> <ul style="list-style-type: none"> <li>▶ Manufactured using Stainless Steel or Solid Brass</li> <li>▶ Conforms to ANSI / BHMA A156.16 L22251 for Brass and L52251 for Stainless Steel</li> <li>▶ Architectural finishes available</li> </ul>	Base Diameter: 2 1/2" Base Thickness: 3/8" Overall Proj.: 1 3/16"	WB26	US32D, 3, 4, US5, 15A, US26, 10, US10B, 19
	<b>Solid Brass or Stainless Steel (US32D) Convex Wall Stop</b> <ul style="list-style-type: none"> <li>▶ Manufactured using Stainless Steel or Solid Brass</li> <li>▶ Conforms to ANSI / BHMA A156.16 L22201 for Brass and L52101 for Stainless Steel</li> <li>▶ Architectural finishes available</li> </ul>	Base Diameter: 2 1/2" Base Thickness: 3/8" Overall Proj.: 1 3/16"	CONWB42	US32D, 3, US4, 26, 10, US10B
	<b>Solid Brass Convex Wall Stop</b> <ul style="list-style-type: none"> <li>▶ Constructed of Solid Brass</li> <li>▶ Tamper-proof mounting</li> <li>▶ Included with grey convex rubber bumper that absorbs impact</li> <li>▶ Comparable to IVES #WS404CVX</li> <li>▶ Architectural finishes available</li> </ul>	Base Diameter: 1" Overall Proj.: 1/2"	SWB	US3, 4, 15, US15A, 26, US26D, 10B, US19
	<b>Commercial Grade Wall Door Stop</b> <ul style="list-style-type: none"> <li>▶ For high traffic conditions</li> <li>▶ Solid Cast Brass or Bronze heavy duty construction</li> <li>▶ Rubber tip does not scar nor mark surface of door</li> <li>▶ Conforms to ANSI: A156.16, BHMA: L12021, FED SPEC:1320E</li> <li>▶ Architectural finishes available</li> </ul>	Base Diameter: 2" Overall Proj: 3 5/8"	CWS18	US3, 26D, US10B
	<b>Commercial Grade Wall Door Stop</b> <ul style="list-style-type: none"> <li>▶ For high traffic conditions</li> <li>▶ Solid Cast Brass</li> <li>▶ Conforms to ANSI: A156.16, BHMA: L12021, FED SPEC:1320E</li> <li>▶ Architectural finishes available</li> <li>▶ With 3 mounting holes</li> </ul>	Base Diameter: 2 1/8" Overall Proj: 3 5/8" Fastener: #10 x 1" OPHWS w/ plastic anchor	4CWS-21	US26D, US10B

## WALL DOOR STOPS / BUMPERS




ILLUSTRATION	ITEM	SIZE	ITEM #	FINISH
	<b>Solid Brass Roller Stop</b> <ul style="list-style-type: none"> <li>Constructed in heavy duty Cast Brass</li> <li>CURB19 is used where two doors open against each other to prevent damage to the door or hardware</li> <li>CURB19 conforms to ANSI / BHMA A156.16, L12212</li> </ul>	Base: 1 3/4" x 2 1/8" Overall Proj: 2 3/4"	CURB19	US3, 4, US10B, US26D
		Base Dia: 2" Overall Height: 4 1/4"	SRB82	
	<b>Solid Brass Rigid Door Stop with Molded Screw</b> <ul style="list-style-type: none"> <li>Easy installation</li> <li>Packed with both white and black rubber tip</li> <li>Available in architectural finishes</li> </ul>	Mounting Screw: 1" Projection: 3"	SBR3	US3, 5, 26, US26D, 15, US15A, 10B, US1
		Mounting Screw: 1" Projection: 4"	SBR4	
	<b>Flexible Door Stop with Fixed Screw</b> <ul style="list-style-type: none"> <li>Diecast base</li> <li>One Piece Style</li> <li>Packed with white rubber tip</li> <li>Available in architectural finishes</li> </ul>	Mounting Screw: 3/4" Projection: 3"	FS89	US3, 5, 15, US15A, 26, US10B
	<b>Cast Rigid Door Stop with Molded Screw</b> <ul style="list-style-type: none"> <li>Easy installation</li> <li>Diecast material</li> <li>Available in architectural finishes</li> </ul>	Mounting Screw: 5/8" Projection: 3"	RS92	US3, 5, 26, US26D, 15, US15A, US10B
	<b>Heavy Duty Flexible Snap On Door Stop 3 Pieces</b> <ul style="list-style-type: none"> <li>Steel Base</li> <li>White Rubber Tip</li> <li>Available in architectural finishes</li> <li>Comparable to IVES #060</li> </ul>	Mounting Screw: 1 1/2" Projection: 3"	SOFS3	US3, 5, 26, US10B, US15A, 15
	<b>Heavy Duty Flexible Door Stop with Screw and Metal Base</b> <ul style="list-style-type: none"> <li>Easy installation</li> <li>Available in architectural finishes</li> </ul>	Mounting Screw: 3/4" Projection: 3 1/8"	HDFS3	US3, 5, 26, US15, 15A, US10B, US1
		Mounting Screw: 3/4" Projection: 3 3/4"	JFS13	
	<b>4" Diecast Jumbo Rigid Stop with Molded Screw</b> <ul style="list-style-type: none"> <li>Diecast material</li> <li>Conforms to ANSI / BHMA A156.16</li> </ul>	Mounting Screw: 3/4" Projection: 4"	JRS34	US3, 5, 26, US15, 15A, US10B
	<b>Wall Stop with Plate, Round</b> <ul style="list-style-type: none"> <li>Stainless Steel wall mount</li> <li>Easy installation</li> <li>It can also be used as coat hook</li> <li>Durable rubber tip</li> <li>Residential and light commercial use</li> </ul>	Wood Screw w/ plastic plug: #4 x 1" Projection: 3 1/8"	WSPR-02	US32D, US32









## WALL DOOR STOPS / BUMPERS

ILLUSTRATION	ITEM	SIZE	ITEM #	FINISH
	<b>Wall Stop No Plate</b> <ul style="list-style-type: none"> <li>▶ Stainless Steel</li> <li>▶ Wall mount</li> <li>▶ Easy installation</li> <li>▶ Durable rubber tip</li> <li>▶ Residential and light commercial use</li> </ul>	Wood Screw w/ plastic plug: #10 x 1 1/2" Projection: 2 7/8"	WSNP-04	US32D, US32
	<b>Wall Stop with Plate, Square</b> <ul style="list-style-type: none"> <li>▶ Stainless Steel</li> <li>▶ Wall mount</li> <li>▶ Easy installation</li> <li>▶ It can also be used as coat hook</li> <li>▶ Durable rubber tip</li> <li>▶ Residential and light commercial use</li> </ul>	Wood Screw w/ plastic plug: #6 x 1" Projection: 3 1/8"	WSPS-01	US32D, US32
	<b>Wall Bumper Concave</b> <ul style="list-style-type: none"> <li>▶ Stainless Steel</li> <li>▶ Wall mount</li> <li>▶ Easy installation</li> <li>▶ Durable rubber tip</li> <li>▶ Residential and light commercial use</li> </ul>	Wood Screw w/ plastic plug: #8 x 1" Projection: 15/16" Diameter: 1 1/2"	WBC-06	US32D, US32

## FLOOR DOOR STOPS

	<b>Floor Stops</b> <ul style="list-style-type: none"> <li>▶ Commercial grade wall floor stop for high traffic conditions. Solid Cast Brass or Bronze heavy duty construction</li> <li>▶ Architectural finishes available</li> <li>▶ Conforms to ANSI: A156.16, BHMA:L12131, FED SPEC:1328E</li> </ul>	Base Diameter: 2" Overall Height: 3"	CFS20	US3, 26D, US10B
	<b>Floor Stops</b> <ul style="list-style-type: none"> <li>▶ Commercial grade wall floor stop for high traffic conditions. Solid Cast Brass.</li> <li>▶ Architectural finishes available</li> <li>▶ Conforms to ANSI: A156.16, BHMA:L12131, FED SPEC:1328E</li> <li>▶ With 3 mounting holes</li> </ul>	Base Diameter: 2 1/4" Overall Height: 3 1/8" Fastener: #10 x 1" OPHWS w/ plastic anchor	3CFS-85	US26D, US10B
 LSDC-315    SDC-115	<b>Security Door Stops</b> <ul style="list-style-type: none"> <li>▶ Designed for high traffic, abusive and security applications</li> <li>▶ Flame resistant, resilient material molded around a heavy duty stud</li> </ul>	Stud Dimensions: 5/8" x 2 1/2" Bumpers: 2" dia. x 3 1/2" h	LSDC-315	Black
		Stud Dimensions: 5/8" x 2 1/2" Bumpers: 2" dia. x 1 1/2" h	SDC-115	





## FLOOR DOOR STOPS

ILLUSTRATION	ITEM	SIZE	ITEM #	FINISH
 <b>ZNLS-21</b> <b>NEW ITEM</b>	<b>Zinc Floor Dome Stops</b> <ul style="list-style-type: none"> <li>▶ For doors with threshold or undercut doors</li> <li>▶ Heavy Duty Cast Dome Stops constructed of Zinc</li> <li>▶ ZNLS-21 conforms to ANSI / BHMA A156.16, L02141 Low profile</li> <li>▶ For doors without thresholds</li> </ul>	Base Height: $\frac{1}{8}$ " Overall Height: 1" Base Diameter: $1\frac{3}{4}$ "	ZNLS-21	US26D, US10B
		Base Height: $\frac{3}{8}$ " Overall Height: $1\frac{3}{8}$ " Base Diameter: $1\frac{3}{4}$ "	ZNHS-37	
 <b>ZNHS-37</b> <b>NEW ITEM</b>	<b>Zinc Heavy Duty Dome Stop</b> <ul style="list-style-type: none"> <li>▶ ZNHS-37 conforms to ANSI / BHMA A156.16, L02161 High Profile</li> <li>▶ For doors with thresholds</li> <li>▶ Architectural finishes available</li> </ul>			
 <b>ZNUS-82</b> <b>NEW ITEM</b>	<b>Zinc Heavy Duty Dome Stop</b> <ul style="list-style-type: none"> <li>▶ Heavy Duty Cast Zinc Dome Stop designed for both low and high profiles.</li> <li>▶ Meets ANSI / BHMA A156.16, L02141 when used as low profile for doors without thresholds</li> </ul>	Base Diameter: $1\frac{3}{4}$ " Base: $\frac{1}{4}$ " Height: $1\frac{5}{8}$ " Fastener: #14 x $1\frac{1}{2}$ " wood screw w/ plastic shield and $\frac{1}{4}$ " - 20 x $\frac{3}{4}$ " machine screw with lead anchor	ZNUS-82	US26D, US10B
 <b>DSLP4</b>	<b>Solid Brass Floor Dome Stops</b> <ul style="list-style-type: none"> <li>▶ Heavy Duty Cast Dome Stops constructed of Solid Brass</li> <li>▶ DSLP4 conforms to ANSI / BHMA A156.16, L02141 Low profile</li> <li>▶ For doors without thresholds</li> <li>▶ For doors with threshold or undercut doors</li> <li>▶ DSHP18 conforms to ANSI / BHMA A156.16, L02161 High Profile</li> <li>▶ For doors with thresholds</li> <li>▶ Architectural finishes available</li> </ul>	Base Height: $\frac{1}{8}$ " Overall Height: 1" Base Diameter: $1\frac{3}{4}$ "	DSLP4	US3, 4, 5, US10, 10B, US15, 15A, US26, 26D, US32D, US1
		Base Height: $\frac{3}{8}$ " Overall Height: $1\frac{3}{8}$ " Base Diameter: $1\frac{3}{4}$ "	DSHP8	
 <b>DSHP18</b>				
 <b>UNDS14</b>	<b>Solid Brass Heavy Duty Dome Stop</b> <ul style="list-style-type: none"> <li>▶ Heavy Duty Cast Brass dome stop designed for both low and high profiles.</li> <li>▶ Meets ANSI / BHMA A156.16, L02141 when used as DSLP4</li> </ul>	Base Diameter: $1\frac{3}{4}$ " Base: $\frac{1}{4}$ " Height: $1\frac{5}{8}$ " Fastener: #14 x $1\frac{1}{2}$ " wood screw w/ plastic shield and $\frac{1}{4}$ " - 20 x $\frac{3}{4}$ " machine screw with lead anchor	UNDS14	US3, 4, 5, US10, 10B, US15, 26, US26D, US1



## FLOOR DOOR STOPS

ILLUSTRATION	ITEM	SIZE	ITEM #	FINISH
 <p style="text-align: center;">RIS375      RIS625</p>	<p style="text-align: center;"><b>Risers</b></p> <ul style="list-style-type: none"> <li>▶ Extruded Aluminum, mill finish</li> <li>▶ For conversion of DSLP4, ZNLS-21 or DSHP18, ZNHS-37 Dome Stop for carpet installation</li> <li>▶ Available in <math>\frac{3}{8}</math>" and <math>\frac{5}{8}</math>" height</li> </ul>	Length: $1\frac{3}{4}$ " Width: $1\frac{1}{8}$ " Height: $\frac{3}{8}$ "	RIS375	US26D
		Length: $1\frac{3}{4}$ " Width: $1\frac{1}{8}$ " Height: $\frac{5}{8}$ "	RIS625	
	<p style="text-align: center;"><b>Risers</b></p> <ul style="list-style-type: none"> <li>▶ Heavy Duty Diecast construction</li> <li>▶ For conversion of DSLP4, ZNLS-21 or DSHP18, ZNHS-37 Dome Stop for carpet installation or adapting to threshold use</li> <li>▶ Conforms to ANSI / BHMA 156.1, L02161 when used with DSLP4, ZNLS-21</li> <li>▶ Architectural finishes available</li> </ul>	Base Diameter: $1\frac{3}{4}$ " Height: $\frac{5}{16}$ "	NEWRIS3750	US3, 4, 5, US10, 10B, US15, 15A, US26, 26D
	<p style="text-align: center;"><b>Goose Neck Floor Stop</b></p> <ul style="list-style-type: none"> <li>▶ Heavy Duty Cast Brass floor stop</li> <li>▶ Smooth and aerodynamic design provides minimum obstruction to cleaning efforts</li> <li>▶ Conforms to ANSI / BHMA A156.16, L12131 for Brass</li> <li>▶ Architectural finishes available</li> </ul>	Base Depth: $1\frac{3}{4}$ " Overall Height: $2\frac{1}{8}$ " Overall Length: $2\frac{1}{4}$ "	GS118	US3, 4, 5 US26, 26D, US10, 10B, US15, 15A, US1
	<p style="text-align: center;"><b>Goose Neck Floor Stop</b></p> <ul style="list-style-type: none"> <li>▶ Heavy Duty Cast Brass floor stop</li> <li>▶ Smooth and aerodynamic design provides minimum obstruction to cleaning efforts</li> <li>▶ Conforms to ANSI / BHMA A156.16, L12131 for Brass</li> <li>▶ Architectural finishes available</li> </ul>	Base Depth: $1\frac{3}{8}$ " Overall Height: $2\frac{3}{4}$ " Overall Length: $2\frac{1}{2}$ "	GS119	US3, 4, 5, US26, 26D, US10, 10B, US15, 15A US1
	<p style="text-align: center;"><b>Small Goose Neck FLOOR STOPS</b></p> <ul style="list-style-type: none"> <li>▶ For light to medium duty doors</li> <li>▶ Easy installation</li> <li>▶ Durable vinyl rubber stops that comes in black or grey</li> <li>▶ Solid Brass material</li> <li>▶ Architectural finishes available</li> </ul>	Height: $1\frac{1}{4}$ "; Base: $1\frac{1}{8}$ "; Projection: $1\frac{1}{4}$ "	SMGNS-1	US3, US5, US10B, 15, US15A, 26, US26D

## FLOOR DOOR STOPS

ILLUSTRATION	ITEM	SIZE	ITEM #	FINISH
	<b>Cylindrical Floor Mount Door Stop</b> <ul style="list-style-type: none"> <li>▶ Stainless Steel</li> <li>▶ Floor mount</li> <li>▶ Easy installation</li> <li>▶ Durable rubber tip</li> <li>▶ Residential and light commercial use</li> </ul>	Wood Screw w/ plastic plug: #4 x 1 1/2" Projection: 1 9/16"	EUS-03	US32D, US32, US1
	<b>Square Floor Mount Door Stop</b> <ul style="list-style-type: none"> <li>▶ Stainless Steel</li> <li>▶ Floor mount</li> <li>▶ Easy installation</li> <li>▶ Durable rubber tip</li> <li>▶ Residential and light commercial use</li> </ul>	Wood Screw w/ plastic plug: #4 x 1 1/2" Projection: 1 9/16"	EUS-05	US32D, US32, US1
	<b>Floor Mount or Wall Mount Door Stop</b> <ul style="list-style-type: none"> <li>▶ Stainless Steel</li> <li>▶ Floor mount or wall mount</li> <li>▶ Easy installation</li> <li>▶ Durable rubber tip</li> <li>▶ Residential and light commercial use</li> </ul>	Wood Screw w/ plastic plug: #8 x 1 1/4" Projection: 2"	EUS-07	US32D, US32
	<b>Door Stop Flat Top</b> <ul style="list-style-type: none"> <li>▶ Stainless Steel door stop</li> <li>▶ Floor Mount</li> <li>▶ Easy installation</li> <li>▶ Durable rubber tip</li> <li>▶ Residential and light commercial use</li> </ul>	Wood Screw w/ plastic plug: #10 x 1 1/4" Projection: 1 3/16"	DSFT-5	US32D, US32

## DOOR HOLDER / STOPS

	<b>Solid Brass Kick Down Door Holder</b> <ul style="list-style-type: none"> <li>▶ Black / Grey Vinyl rubber stop with concentric groove design for maximum non-slide grip (#RUBSBDH)</li> <li>▶ Conforms to ANSI / BHMA A156.16, L11383</li> <li>▶ Available in architectural finishes</li> </ul>	Arm: 5" Base: 1 1/4" x 2"	SBDH41300	US26, 3, 4, US26D,10, US10B
	<b>Vinyl Rubber Stop for SBDH41300 and SBDH5</b> <ul style="list-style-type: none"> <li>▶ Vinyl rubber stop with concentric groove design for maximum non-slide grip</li> <li>▶ For use as replacement tip for SBDH41300 and SBDH5</li> </ul>	Base Dia: 1 1/8"	RUBSBDH	Grey



## DOOR HOLDER / STOPS

ILLUSTRATION	ITEM	SIZE	ITEM #	FINISH
	<b>Zinc Diecast Kick Down Door Holder</b> <ul style="list-style-type: none"> <li>Vinyl rubber stop with concentric groove design for maximum non-slide grip (#RUBDH25)</li> <li>Architectural finishes available</li> </ul>	Arm: 4" Base: $\frac{7}{8}$ " x $1\frac{3}{4}$ "	DH25	US3, 26, US26D, Duro
	<b>Vinyl Rubber Stop for DH25</b> <ul style="list-style-type: none"> <li>Vinyl rubber stop with concentric groove design for maximum non-slide grip</li> <li>For use as replacement tip for DH25</li> </ul>	Base Dia: $1\frac{1}{8}$ "	RUBDH25	Grey
	<b>Cast Iron Kick Down Door Holder</b> <ul style="list-style-type: none"> <li>Black / Grey Vinyl rubber stop with concentric groove design for maximum non-slide grip</li> <li>Conforms to ANSI / BHMA A156.16, L11383</li> </ul>	Arm: 4"	IRODH-4	Alum, Duro
		Arm: 5"	IRODH-5	
	<b>Solid Brass Kick Down Door Holder</b> <ul style="list-style-type: none"> <li>Vinyl rubber stop with concentric groove design for maximum non-slide grip (#RUBSBDH)</li> <li>Conforms to ANSI / BHMA A156.16, L11382</li> <li>Comparable to IVES #FS455</li> <li>Architectural finishes available</li> </ul>	Arm: 5" Base: $\frac{7}{8}$ " x $1\frac{3}{4}$ "	SBDH5	US3, 26D, US10, 10B, US26
	<b>Heavy Duty Commercial Grade Wall Door Stop</b> <ul style="list-style-type: none"> <li>For high traffic conditions</li> <li>Solid Cast Brass or Bronze heavy duty construction</li> <li>Unit functions as stop but serves as a Hold-Open device when hook is manually engaged in strike</li> <li>Conforms to ANSI / BHMA A156.16, BHMA:L11351 for Brass, FED SPEC:1321E</li> <li>Architectural finishes available</li> </ul>	Base Dia.: $2\frac{1}{4}$ " Projection: $3\frac{5}{8}$ " Strike Height: $1\frac{1}{2}$ " Strike Width: $1\frac{3}{16}$ " Strike Projection: 1" Hook: $2\frac{3}{4}$ " Eye: $1\frac{3}{8}$ " x $1\frac{1}{8}$ "	HDWDS99	US3, 26D, US10B
	<b>Floor Door Stop &amp; Manual Holder</b> <ul style="list-style-type: none"> <li>Solid Cast Brass or Bronze heavy duty construction</li> <li>Unit functions as stop but serves as a Hold-Open device when hook is manually engaged in strike</li> <li>Conforms to ANSI / BHMA A156.16, BHMA:L11371, FED SPEC:1329E</li> <li>Architectural finishes available</li> </ul>	Base Dia.: 2" Height from floor to stop centerline: $2\frac{5}{8}$ " Stop Dia: 1" Hook: $2\frac{5}{8}$ " Eye: 1" x $1\frac{1}{2}$ " Overall Height: $3\frac{5}{8}$ "	HDFDSH66	US3, 26, US26D, US10B,

## HINGE PIN DOOR STOPS

ILLUSTRATION	ITEM	SIZE	ITEM #	FINISH
	<b>Jumbo Heavy Duty Hinge Pin Door Stop with Removable Nylon Bushing</b> <ul style="list-style-type: none"> <li>▶ Adjustable angle setting</li> <li>▶ For commercial and residential grade hinges</li> <li>▶ Comparable to IVES #69, 69F</li> </ul>	Hinge Pin Dia.: $\frac{1}{4}$ " or $\frac{5}{16}$ " FOR HINGE SIZES: $3\frac{1}{2}$ " x $3\frac{1}{2}$ ", 4" x 4", $4\frac{1}{2}$ " x $4\frac{1}{2}$ "	IVHP23 (Commercial and Residential use)	US3, 5, 10B, US15, 15A, US26, 26D, US1
	<b>Jumbo Hinge Pin Door Stop with Removable Nylon Bushing</b> <ul style="list-style-type: none"> <li>▶ Easy installation</li> <li>▶ For use with residential door hinges</li> <li>▶ Architectural finishes available</li> </ul>	Hinge Pin Dia.: $\frac{1}{4}$ " or $\frac{5}{16}$ " FOR HINGE SIZES: $3\frac{1}{2}$ " x $3\frac{1}{2}$ ", 4" x 4", $4\frac{1}{2}$ " x $4\frac{1}{2}$ "	JHP11 (Recommended for Residential use)	US3, 5, US10B, 15, US15A, 26 US1
	<b>Deluxe Hinge Pin Door Stop with Removable Nylon Bushing</b> <ul style="list-style-type: none"> <li>▶ Easy installation</li> <li>▶ For use with residential door hinges</li> <li>▶ Architectural finishes available</li> </ul>	Hinge Pin Dia.: $\frac{1}{4}$ " FOR HINGE SIZES: $3\frac{1}{2}$ " x $3\frac{1}{2}$ ", 4" x 4"	NHP78 (Recommended for Residential use)	US3, 5, 10B, US15, 15A, US26, 26D
	<b>Hinge Pin Stop with Removable Nylon Bushing</b> <ul style="list-style-type: none"> <li>▶ Adjustable angle setting</li> <li>▶ Comparable to IVES #69, 69F</li> <li>▶ Architectural finishes available</li> </ul>	Hinge Pin Dia.: $\frac{1}{4}$ " or $\frac{5}{16}$ " FOR HINGE SIZES: $3\frac{1}{2}$ " x $3\frac{1}{2}$ ", 4" x 4"	DSL81 (Recommended for Residential use)	US3, 5, 10B, US15, 15A, US26, 26D, US1
		Hinge Pin Dia.: $\frac{1}{4}$ " or $\frac{5}{16}$ " FOR HINGE SIZES: $3\frac{1}{2}$ " x $3\frac{1}{2}$ ", 4" x 4", $4\frac{1}{2}$ " x $4\frac{1}{2}$ "	DSHD105 (Recommended for Commercial use)	US3, 5, 10B, US15, 15A, US26, 26D
	<b>Residential Hinge Pin Door Stop with Removable Nylon Bushing</b> <ul style="list-style-type: none"> <li>▶ Easy installation</li> <li>▶ For use on residential hinges</li> <li>▶ Architectural finishes available</li> </ul>	Hinge Pin Dia.: $\frac{1}{4}$ " FOR HINGE SIZES: $3\frac{1}{2}$ " x $3\frac{1}{2}$ ", 4" x 4"	HP95 (Recommended for Residential use)	US3, 5, US10B, 15, US15A, 26 US1

## CLOSET HARDWARE





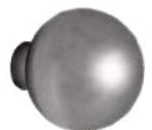

ILLUSTRATION	ITEM	SIZE	ITEM #	FINISH
	<b>Oval Closet Rod</b> <ul style="list-style-type: none"> <li>▶ Steel material</li> <li>▶ Available in 2 lengths</li> <li>▶ Individually poly-bagged</li> </ul>	8' Closet Rod Dimensions: $\frac{5}{8}$ " x $1 \frac{3}{16}$ "	OVLCLR-408	US26
		12' Closet Rod Dimensions: $\frac{5}{8}$ " x $1 \frac{3}{16}$ "	OVLCLR-5012	US26
	<b>Closet Rod Bracket</b> <ul style="list-style-type: none"> <li>▶ Zinc Alloy material</li> <li>▶ Packed 2 pieces in nylon bag with screws</li> </ul>	Dim.: $1 \frac{1}{4}$ " CTC Projection: $\frac{1}{2}$ " Fasteners: #6 x 1" Wood Screws	OVLCRB-10	US26
	<b>Closet Rod Holder</b> <ul style="list-style-type: none"> <li>▶ Zinc Alloy material</li> <li>▶ Individually packed in nylon bag with screws</li> </ul>	Dim.: $1 \frac{1}{4}$ " CTC Projection: 3" Fasteners: #6 x 1" Wood Screws	OVLCRH-20	US26
 <p><b>NEW ITEM</b></p>	<b>Adjustable Shelf and Oval Rod Support</b> <ul style="list-style-type: none"> <li>▶ Sturdy Steel material</li> <li>▶ Individually poly-bagged</li> <li>▶ Screws packed individually with bracket</li> <li>▶ Can be used with OVLCLR-408 / OVLCLR-5012</li> </ul>	Support shelf up to 14" wide Oval Rod: $\frac{5}{8}$ " x $1 \frac{3}{16}$ "	OVSER-12	US26
	<b>Adjustable Closet Rod</b> <ul style="list-style-type: none"> <li>▶ Sturdy Steel material</li> <li>▶ Individually poly-bagged with installation screws</li> <li>▶ Gauge: 0.050"</li> <li>▶ Adjustable rods in various lengths</li> </ul>	18" to 30"	ACR1830	Bright Zinc
		30" to 48"	ACR3048	
		48" to 72"	ACR4872	
		72" to 96"	ACR7296	
		72" to 120"	ACR72120	
		96" to 150"	ACR96150	
	<b>Adjustable Shelf and Rod Support</b> <ul style="list-style-type: none"> <li>▶ Sturdy Steel material</li> <li>▶ Individually poly-bagged</li> <li>▶ Screws packed individually with bracket</li> </ul>	Support shelf up to 14" wide Rod up to $1 \frac{1}{2}$ " dia.	ASR-41	White, US26
	<b>Adjustable Shelf Support</b> <ul style="list-style-type: none"> <li>▶ Sturdy Steel material</li> <li>▶ Individually poly-bagged</li> <li>▶ Screws packed individually with bracket</li> </ul>	Support shelf up to 14" wide	ADJ42	White
	<b>Single Shelf and Rod Support</b> <ul style="list-style-type: none"> <li>▶ Sturdy Steel material</li> <li>▶ Individually poly-bagged</li> <li>▶ Screws packed individually with bracket</li> </ul>	Support shelf up to 14" wide Rod up to $1 \frac{1}{2}$ " dia.	SR27	White
	<b>Heavy Duty Shelf and Rod Support</b> <ul style="list-style-type: none"> <li>▶ Easy installation</li> <li>▶ Individually poly-bagged</li> <li>▶ Architectural finishes available</li> </ul>	Support shelf up to 14" wide Rod up to $1 \frac{1}{2}$ " dia.	FSR123	White, US26

CLOSET HARDWARE				
ILLUSTRATION	ITEM	SIZE	ITEM #	FINISH
 <b>NEW ITEM</b>	<b>Chrome Plated Closet Rod</b> <ul style="list-style-type: none"> <li>▶ Sturdy Steel material</li> <li>▶ Various rods available in different lengths</li> <li>▶ 0.050" thick (CLR-18 / CLR-112)</li> <li>▶ 0.060" thick (CLR-200 / CLR-500)</li> </ul>	8' Length; 1 1/16" Dia.	CLR-18	US26
		12' Length; 1 1/16" Dia.	CLR-112	
		8' Length; 1 5/16" Dia.	CLR-200	
		12' Length; 1 5/16" Dia.	CLR-500	
 <b>NEW ITEM</b>	<b>Chrome Plated Closet Pole Socket</b> <ul style="list-style-type: none"> <li>▶ Zinc Alloy material</li> <li>▶ Paired Set</li> <li>▶ Can be used with: <b>CLR-18 / CLR-112</b></li> <li>▶ Packed with #8 x 3/4" screws</li> </ul>	1 1/16" Diameter Pole	CLR-30	US26
 <b>NEW ITEM</b>	<b>Heavy Duty Die Cast Closet Pole Socket</b> <ul style="list-style-type: none"> <li>▶ Zinc Alloy material</li> <li>▶ Paired Set</li> <li>▶ Can be used with: <b>CLR-200 / CLR-500</b></li> <li>▶ Packed with #10 x 3/4" screws</li> </ul>	1 5/16" Diameter Pole	PSHD-10	US26
	<b>Closet Pole Socket</b> <ul style="list-style-type: none"> <li>▶ Nylon material</li> <li>▶ Paired Set</li> </ul>	1 3/8" Diameter Pole	PS99	White
	<b>Steel Closet Pole Socket</b> <ul style="list-style-type: none"> <li>▶ Sturdy Steel material</li> <li>▶ Paired Set</li> </ul>	1 3/8" Diameter Pole	MPS3	US3, 26, US15, 10B
	<b>Wood Closet Pole Socket</b> <ul style="list-style-type: none"> <li>▶ Natural Wood material</li> <li>▶ Paired Set</li> </ul>	1 3/8" Diameter	WDPS 82	Wood Grain



## CLOSET HARDWARE

ILLUSTRATION	ITEM	SIZE	ITEM #	FINISH
	<b>Jumbo Roller Catch</b> <ul style="list-style-type: none"> <li>▶ Steel Construction</li> <li>▶ Conforms to ANSI / BHMA A156.9 B83112</li> </ul>	Size 2" Strike: 1 1/4" x 7/8" Square Corner	RC88	US3, US10B, Zinc
	<b>Solid Brass Adjustable Ball Catches</b> <ul style="list-style-type: none"> <li>▶ Manufactured from Wrought Brass</li> <li>▶ Adjustable threaded barrel for accommodating various door clearances</li> <li>▶ Conforms to ANSI / BHMA A156.9 B23013</li> <li>▶ Architectural finishes available</li> </ul>	Face Plate: 2 1/8" x 1" Round Corner Bore: 3/4" x 1 1/4" Square Lip Strike: 1 3/8" x 2 1/8" Lip to Center: 7/8"	SBBC58 (Brass)	US3, 5, 10B US15, 15A, US26, 26D, US1
 BC97 STRKBC97	<b>Adjustable Ball Catch</b> <ul style="list-style-type: none"> <li>▶ Manufactured from Wrought Brass</li> <li>▶ Adjustable threaded barrel for accommodating various door clearances</li> <li>▶ Conforms to ANSI / BHMA A156.9 B23013</li> <li>▶ Architectural finishes available</li> </ul>	Face Plate: 2 1/4" x 1" Square Corner Bore: 7/8" x 1 1/4" Round Corner Strike: 1 3/8" x 2 1/4" Lip to Center: 7/8"	BC97 (Diecast)	US3, 5, 10B US15, 15A, US26, 26D
		Full Lip Strike Plate Round Corner for BC97 and DIB1 Size: 1 3/8" x 2 1/4"	STRKBC97	
	<b>Adjustable Drive-In Ball Catches</b> <ul style="list-style-type: none"> <li>▶ Generally used on closet doors where latch is not used or needed</li> <li>▶ Diecast material</li> <li>▶ Jamb-mounted lip strike</li> <li>▶ Conforms to ANSI / BHMA A156.9 B23013</li> <li>▶ Architectural finishes available</li> </ul>	<sup>15</sup> / <sub>16</sub> " Bore Strike Size: 1 3/8" x 2 1/4", Round Corner	DIB1	US3, 5, 26, US26D, 15, US15A, 10B, US1
			BLKDIB777 (Bulk Packed)	US3, 5, 26, US26D, 15, US15A, 10B
	<b>Adjustable Roller Catch</b> <ul style="list-style-type: none"> <li>▶ Soft latching action. Speed nylon roller for maximum performance</li> <li>▶ Adjustable tension 4 – 17 lbs of holding power. Installs easily on thin doors. Includes Brass full lip strike</li> <li>▶ Conforms to ANSI / BHMA A156.16 L27081 for Brass and L87081 for Steel</li> </ul>	Face Plate: 2 1/4" x 7/8" Bore: <sup>13</sup> / <sub>16</sub> " x 1 3/4" Strike: 2 1/4" x 1 3/4" Lip to Center: <sup>13</sup> / <sub>16</sub> "	ARCT3350	US3, 26D, US15, 10B, US19, 26

CLOSET HARDWARE				
ILLUSTRATION	ITEM	SIZE	ITEM #	FINISH
	<b>Bullet Catch</b> <ul style="list-style-type: none"> <li>▶ Ideal for cabinets and small door installations</li> <li>▶ Made from Wrought Brass</li> <li>▶ Architectural finishes available</li> </ul>	Hole (door): $\frac{1}{2}$ " dia. x $1\frac{1}{8}$ " Strikes (Square): $\frac{5}{8}$ " x $1\frac{1}{4}$ " Strikes (Round): $1\frac{3}{8}$ " x $2\frac{1}{4}$ "	BULCAT11	US3, 5, 26, US15, 10B
	<b>T-Strike for BULCAT11</b> <ul style="list-style-type: none"> <li>▶ Natural Wood material</li> <li>▶ Paired Set</li> </ul>	T-Strikes (optional): $\frac{7}{8}$ " x $2\frac{1}{4}$ "	TCAT108	US3, 5, 26, US15, 10B
	<b>Solid Brass Drawer Pull</b> <ul style="list-style-type: none"> <li>▶ Includes Screws for <math>\frac{3}{4}</math>" – <math>1\frac{3}{8}</math>" thick drawers or doors</li> <li>▶ Conforms to ANSI / BHMA A156.9 B22011</li> <li>▶ Architectural finishes available</li> </ul>	Dia. of Rod: $3"$ , $\frac{5}{16}"$	WP300	US3, 26, US26D, US10B
		Dia. of Rod: $3\frac{1}{2}"$ , $\frac{5}{16}"$	WP350	
		Dia. of Rod: $4"$ , $\frac{5}{16}"$	WP400	
	<b>Heavy Duty Magnetic Catch</b> <ul style="list-style-type: none"> <li>▶ Dual triple pole. Self-aligning magnets for maximum pull surface or mortise mounted steel case</li> <li>▶ Individually packed with sheet metal screws, 3 strikes</li> <li>▶ Conforms to ANSI / BHMA A156.9 B4316</li> </ul>	Length: $3\frac{1}{8}"$ Thickness: $\frac{7}{8}"$ Depth: $1"$ Load Capacity: 14 lbs.	HDMC3270	Aluminum
	<b>Triple Pole Magnetic Catch</b> <ul style="list-style-type: none"> <li>▶ Triple pole. Self-aligning magnets for maximum pull. Adjustable steel case</li> <li>▶ Individually packed with sheet metal screws, 1 strike size</li> <li>▶ Conforms to ANSI / BHMA A156.9</li> </ul>	Length: $2\frac{1}{16}"$ Thickness: $\frac{7}{8}"$ Depth: $1\frac{5}{32}"$ Load Capacity: 6 lbs.	TPMC3230	Aluminum
	<b>Bi-Fold Ball Knob</b> <ul style="list-style-type: none"> <li>▶ Diecast material</li> <li>▶ Packed with 1 breakaway screw to accommodate different cabinet thickness (from <math>1\frac{5}{8}"</math> to <math>2"</math>) and one <math>1\frac{3}{4}"</math> screw</li> <li>▶ Architectural finishes available</li> </ul>	Diameter: $1\frac{1}{4}"$ Height: $1\frac{3}{8}"$	BK14	US3, 5, 26, US26D, 15, US15A, 10B, US1
	<b>Back Plate for BK14 Bi-fold Ball Knob</b> <ul style="list-style-type: none"> <li>▶ Diecast material</li> <li>▶ Conforms to ANSI / BHMA A156.9 B221181</li> <li>▶ Architectural finishes available</li> </ul>	Diameter: $1\frac{3}{4}"$	PLA2	US3, 5, 26, US26D, 15, US15A, 10B, US1

## CLOSET HARDWARE

ILLUSTRATION	ITEM	SIZE	ITEM #	FINISH
	<b>Bi-Fold Concave Knob</b> <ul style="list-style-type: none"> <li>▶ Beveled edge</li> <li>▶ Packed with 1" screw</li> <li>▶ Cast material</li> </ul>	Diameter: 1 3/8"	CK130	US3, 5, 26D
	<b>Drive In Finger Pull</b> <ul style="list-style-type: none"> <li>▶ Individually poly-bagged</li> <li>▶ Ideal for sliding doors</li> <li>▶ Conforms to ANSI / BHMA A156.9 B22201 and A156.14 D2781</li> </ul>	Diameter: 2 1/8"	DIFP218 (Without Nail)	US3, 5, 10B, US15, 15A, US26, 26D US1
 <b>NEW ITEM</b>	<b>Solid Brass Oval Flush Pull</b> <ul style="list-style-type: none"> <li>▶ Ideal for sliding doors, cabinet doors, and pocket doors.</li> <li>▶ Packed with screws</li> <li>▶ Architectural finishes available</li> </ul>	Dimensions: 3 9/16" x 1 5/16" x 7/16"	FP2000	US3, 10B, US15, 26, US26D, US1
 <b>NEW ITEM</b>	<b>Solid Brass Rectangular Flush Pull with Optional Snap-In Plate</b> <ul style="list-style-type: none"> <li>▶ Ideal for sliding doors, cabinet doors, and pocket doors.</li> <li>▶ Packed with screws</li> <li>▶ Architectural finishes available</li> </ul>	Dimensions: 3 1/8" x 1 5/16" x 7/16"	FP3000	US10B, US15, 26, US26D, US1
 <b>NEW ITEM</b>	<b>Solid Brass Rectangular Flush Pull with Removable Back Plate</b> <ul style="list-style-type: none"> <li>▶ Ideal for sliding doors, cabinet doors, and pocket doors.</li> <li>▶ Packed with screws</li> <li>▶ Architectural finishes available</li> </ul>	Dimensions: 3 7/8" x 1 11/16" x 7/16"	FP4000	US10B, US15, 26, US26D, US1
 <b>NEW ITEM</b>	<b>Stainless Steel Flush Cup Pull</b> <ul style="list-style-type: none"> <li>▶ Ideal for sliding doors, cabinet doors, and pocket doors.</li> <li>▶ Meets ANSI A156.6 for J403 Pulls</li> </ul>	Dimensions: Face: 3 1/2" x 5" Projection: 1/8" Cup Clearance: 7/8" Fasteners: (4) #6 x 5/8" OPHWS	CRP150N	US32D, US10B


COAT HOOKS				
ILLUSTRATION	ITEM	SIZE	ITEM #	FINISH
 NEW ITEM	<b>Curved Single Coat Hook</b> <ul style="list-style-type: none"> <li>▶ Stainless Steel</li> <li>▶ Individually poly-bagged</li> <li>▶ Surface Mounting</li> <li>▶ Conforms to ANSI / BHMA A156.16</li> </ul> L03121 L03122 L03123	Projection: 1 5/8" Overall Height: 2" Width: 3/4" Material Thickness: 1/8"	CH13	US32D
 NEW ITEM	<b>Angled Single Coat Hook</b> <ul style="list-style-type: none"> <li>▶ Stainless Steel</li> <li>▶ Individually poly-bagged</li> <li>▶ Surface Mounting</li> <li>▶ Conforms to ANSI / BHMA A156.16</li> </ul> L03121 L03122 L03123	Projection: 1 1/4" Overall Height: 2 1/2" Width: 3/4" Material Thickness: 1/8"	CH01	US32D
 NEW ITEM	<b>Cylindrical Single Coat Hook with Base</b> <ul style="list-style-type: none"> <li>▶ Stainless Steel</li> <li>▶ Round Base</li> <li>▶ Individually poly-bagged</li> <li>▶ Concealed Mounting</li> <li>▶ Conforms to ANSI / BHMA A156.16</li> </ul> L03121 L03122 L03123	Projection: 1 5/8" Overall Height: 1 1/16" Base Width: 1 3/8" dia. Material Thickness: 9/16" dia.	CH04	US32D
 NEW ITEM	<b>Cubic Single Coat Hook with Base</b> <ul style="list-style-type: none"> <li>▶ Stainless Steel</li> <li>▶ Square Base</li> <li>▶ Individually poly-bagged</li> <li>▶ Concealed Mounting</li> <li>▶ Conforms to ANSI / BHMA A156.16</li> </ul> L03121 L03122 L03123	Projection: 1 11/16" Overall Height: 1 1/16" Base Width: 1 3/8" Material Thickness: 9/16"	CH07	US32D
 NEW ITEM	<b>Cubic Single Coat Hook without Base</b> <ul style="list-style-type: none"> <li>▶ Stainless Steel</li> <li>▶ Square Base</li> <li>▶ Individually poly-bagged</li> <li>▶ Concealed Mounting</li> <li>▶ Conforms to ANSI / BHMA A156.16</li> </ul> L03121 L03122 L03123	Projection: 1 9/16" Overall Height: 1 1/16" Width: 9/16" Material Thickness: 9/16"	CH10	US32D







## COAT HOOKS

ILLUSTRATION	ITEM	SIZE	ITEM #	FINISH
	<b>Coat and Hat Hook Double Hanger</b> <ul style="list-style-type: none"> <li>▶ Diecast material</li> <li>▶ Individually poly-bagged</li> <li>▶ Surface Mounting</li> <li>▶ Conforms to ANSI / BHMA</li> </ul> A156.16 L03111 L03112 L03113	Projection: 2 7/8" Base dimension: 1" (W) x 1 1/2" (L)	CH28	US3, 26
 NEW ITEM	<b>Rounded Flat Coat and Hat Hook Double Hanger</b> <ul style="list-style-type: none"> <li>▶ Stainless Steel</li> <li>▶ Individually poly-bagged</li> <li>▶ Surface Mounting</li> <li>▶ Conforms to ANSI / BHMA</li> </ul> A156.16 L03121 L03122 L03123	Projection: 1 11/16" Overall Height: 5 3/8" Width: 3/4" Material Thickness: 1/8"	CH14	US32D
 NEW ITEM	<b>Long Round Coat and Hat Hook Double Hanger</b> <ul style="list-style-type: none"> <li>▶ Stainless Steel</li> <li>▶ Individually poly-bagged</li> <li>▶ Concealed Mounting</li> <li>▶ Conforms to ANSI / BHMA</li> </ul> A156.16 L03121 L03122 L03123	Top Hook Projection: 4 1/16" Bottom Hook Projection: 3 1/16" Overall Height: 5 11/16" Base Width: 2 1/4" dia. Material Thickness: 1/2" dia.	CH25	US32D
 NEW ITEM	<b>Short Round Coat Hook Single Hanger</b> <ul style="list-style-type: none"> <li>▶ Stainless Steel</li> <li>▶ Individually poly-bagged</li> <li>▶ Concealed Mounting</li> <li>▶ Conforms to ANSI / BHMA</li> </ul> A156.16 L03121 L03122 L03123	Projection: 3 1/16" Overall Height: 2 15/16" Base Width: 2 1/4" dia. Material Thickness: 1/2" dia.	CH30	US32D

## DOUBLE-ACTING FLOOR SPRING HINGE

ILLUSTRATION	ITEM	SIZE	ITEM #	FINISH
	<b>Double-Acting Residential Floor Spring Hinge</b> <ul style="list-style-type: none"> <li>▶ Double acting, spring tension</li> <li>▶ Steel trim</li> <li>▶ Heavy Duty ball bearing type with 90° Hold Open</li> <li>▶ Can hold doors up to 90 lbs.</li> <li>▶ Door Range 1 1/8" – 1 3/4"</li> </ul>	Door Range 1 1/8" – 1 3/4" Door Prep: 8 1/8"(L) x 1 1/2"(H)	DAFH8	US3, 5, US15, US10B, US26D

## CRASH CHAINS AND BOLTS

	<b>Single Spring Crash Chain Door Guard</b> <ul style="list-style-type: none"> <li>▶ Protects doors, hinges and glass from wind damage</li> <li>▶ Made with heavy gauge zinc brackets and steel chain 13/16" diameter spring</li> <li>▶ Individually poly-bagged with mounting screws</li> </ul>	Chain: 21 3/4" Spring Dia: 13/16"	CCD30	Zinc
	<b>Single Spring Crash Chain Door Guard (with VINYL)</b> <ul style="list-style-type: none"> <li>▶ Protects doors, hinges and glass from wind damage</li> <li>▶ Made with heavy gauge zinc brackets and steel chain 13/16" diameter spring</li> <li>▶ Individually poly-bagged with mounting screws</li> <li>▶ Weather and rip resistant vinyl cover</li> </ul>	Chain: 21 3/4" Spring Dia: 13/16"	CDV24	Zinc
	<b>Super Heavy Duty Adjustable Chain Door Stop with Vinyl Cover</b> <ul style="list-style-type: none"> <li>▶ Heavy Duty compression spring on both ends of chain and end brackets</li> <li>▶ Thick gauge steel brackets</li> <li>▶ Welded solid steel chains</li> <li>▶ Conforms to ANSI / BHMA A156.16 L12231 (Grade 1)</li> <li>▶ Weather and rip resistant vinyl cover</li> <li>▶ Comparable to IVES #115</li> </ul>	Length: 33" Spring Dia: 13/16"	HDCDV-48	US26D
	<b>24" Chain Bolt Hardened Steel</b> <ul style="list-style-type: none"> <li>▶ Supplement to a regular door lock for added security on cabinet, double screen, garage and industrial doors</li> <li>▶ Zinc plated</li> <li>▶ Can be used on doors opening in by reversing the square bolt</li> <li>▶ Equipped with a strong hard-drawn wire spring which throws the bolt automatically when chain is released</li> <li>▶ Individually poly-bagged with strike and screws</li> </ul>	Full 24" Chain	CB6	Zinc Chromium

## MEDIUM DUTY SURFACE OVERHEAD DOOR HOLDER AND STOPS

Cal-Royal CR550 Series holders and stops are designed to give dependable surface-mounted overhead door control for medium to light duty applications. They come in a wide assortment of architectural finishes. The CR550 series holders and stops can be installed in almost all types of doors and frames including doors with conventional butt hinges, offset pivots, continuous hinges, swing clear hinges and other specialty hinges. They can be mounted to accommodate 85° - 110° door opening. Each door holder and stop models come in four different sizes.

### CR550 SERIES

- **Medium duty surface**
- **Limits door swing**
- **Non-Handed / Reversible**
- **Built-in cushioned stop**
- **Available stop only or stop / hold**
- **Automatic hold-open and release by push and pull on door**
- **Hold-open can be disengaged to act as stop only**
- **Heavy shock absorber spring provides compression before dead stop**
- **Screw packet included to allow for installation in wood or metal door and frame**
- **Maximum opening 110°, minimum door thickness 1 3/8"**
- **Available in architectural finishes**
- **ANSI A156.8 UL Listed as STOP Function**



ITEM NUMBER	SIZE	DOOR OPENING	FUNCTION	<i>Cal-Royal CR550 series holders and stops are designed for medium to light-duty applications. Generally used for openings that are subject to normal traffic activity, thus extending the life of doors, frames, hinges and walls or obstructions.</i> <b>Material:</b> <i>Channel is made of steel or stainless steel ¾" deep, ¾" wide and 0.050" thick; arm is made of steel or stainless steel ¾" wide, ⅜" thick; standard jamb bracket is made of steel or stainless steel ¾" wide, 2 ⅞" long, ⅜" thick.</i> <b>Finish:</b> <i>Available in architectural finishes.</i> <i>UL Listed for STOP only function.</i>
CR552S	2	23 ⅛" - 27"	STOP ONLY	
CR553S	3	27 ⅛" - 33"		
CR554S	4	33 ⅛" - 39"		
CR555S	5	39 ⅛" - 45"		
CR552H	2	23 ⅛" - 27"	HOLD OPEN	
CR553H	3	27 ⅛" - 33"		
CR554H	4	33 ⅛" - 39"		
CR555H	5	39 ⅛" - 45"		

OVERHEAD STOPS AND HOLDERS CROSS-REFERENCE CHART					
CAL-ROYAL	GLYNN JOHNSON	ABH	ROCKWOOD	RIXSON	DORMA
STOP ONLY					
CR552S	452S	4422	OH1001M	55-136	702S
CR553S	453S	4423	OH1002M	55-236	703S
CR554S	454S	4424	OH1003M	55-336	704S
CR555S	455S		OH1004M	55-436	705S
HOLDER					
CR552H	452H	4412	OH1001M	55-126	702H
CR553H	453H	4413	OH1002M	55-226	703H
CR554H	454H	4414	OH1003M	55-326	704H
CR555H	455H		OH1004M	55-426	705H

## HEAVY DUTY SURFACE OVERHEAD DOOR HOLDER AND STOPS

### HD660 SERIES

#### Application

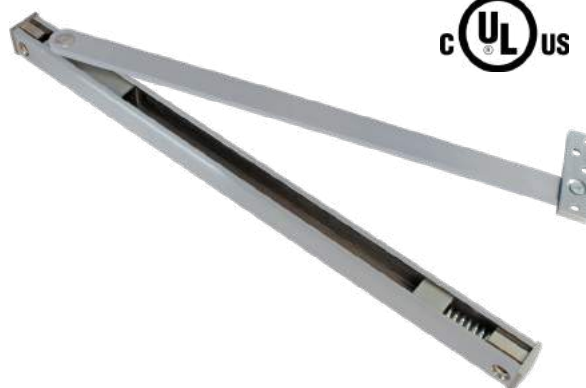
- Interior or exterior doors
- Doors are single acting
- Non-handed
- Recommended for high traffic, heavy abuse installations

#### Features

- **Heavy duty surface**
- Slide track design
- Heavy shock absorber spring provides 5-7° compression before deadstop
- Stop or hold-open function
- Complete screw packet with thru-bolts for door, wood and machine screws for frame
- Durable slider cam
- 110° maximum opening
- 1 3/4" minimum door thickness
- 1 3/16" square channel

#### Compliance

- ANSI A156.8 UL Listed as STOP Function



DOOR OPENING CHART				
MODEL #	SIZE	FUNCTION	BUTT OFFSET PIVOTS	CENTER HUNG PIVOTS
HD662S	2	STOP ONLY	*24" - 28"	25 1/2" - 30"
HD663S	3		28 1/16" - 33"	30 1/16" - 36"
HD664S	4		33 1/16" - 38"	36 1/16" - 41"
HD665S	5		38 1/16" - 43"	41 1/16" - 46"
HD666S	6		43 1/16" - 48"	46 1/16" - 50"
HD662H	2	HOLD-OPEN	*24" - 28"	25 1/2" - 30"
HD663H	3		28 1/16" - 33"	30 1/16" - 36"
HD664H	4		33 1/16" - 38"	36 1/16" - 41"
HD665H	5		38 1/16" - 43"	41 1/16" - 46"
HD666H	6		43 1/16" - 48"	46 1/16" - 50"

\*Butt hung only on this size door. No swing clear hinges  
Refer to the price list for stock sizes and finish.

### HEAVY DUTY SURFACE OVERHEAD STOPS AND HOLDERS CROSS-REFERENCE CHART

CAL-ROYAL	GLYNN JOHNSON	ABH	ROCKWOOD	RIXSON	DORMA
<b>STOP ONLY</b>					
<b>HD662S</b>	902S	9028	OH901S	9-136	902S
<b>HD663S</b>	903S	9021	OH902S	9-236	903S
<b>HD664S</b>	904S	9024	OH903S	9-336	904S
<b>HD665S</b>	905S	9026	OH904S	9-436	905S
<b>HD666S</b>	906S	9027	OH905S	9-536	906S
<b>HOLDER</b>					
<b>HD662H</b>	902H	9018	OH901H	9-126	902H
<b>HD663H</b>	903H	9011	OH902H	9-226	903H
<b>HD664H</b>	904H	9014	OH903H	9-326	904H
<b>HD665H</b>	905H	9016	OH904H	9-426	905H
<b>HD666H</b>	906H	9017	OH905H	9-526	906H



## MEDIUM DUTY CONCEALED OVERHEAD DOOR HOLDER AND STOPS

### CON770 SERIES

#### Application

- Interior or exterior doors
- Single or double acting
- Non-handed
- Recommended for moderate traffic, medium weight doors

#### Features

- **Medium duty concealed**, Slide track design
- Degree of opening is fully adjustable and can be adapted to changing needs
- Heavy shock absorber spring provides 5-7° compression before deadstop
- Stop or hold-open function
- Complete screw packet with thru-bolts for door, wood and machine screws for frame
- Durable slider cam
- 110° maximum opening
- 1-3/4" minimum door thickness

#### Compliance

- ANSI A156.8 UL Listed as STOP Function



DOOR OPENING CHART

MODEL #	SIZE	FUNCTION	BUTT OFFSET PIVOTS	CENTER HUNG PIVOTS
CON772S	2	STOP ONLY	*18" - 24"	---
CON773S	3		24 1/16" - 30"	27" - 32"
CON774S	4		30 1/16" - 36"	32 1/16" - 38 1/2"
CON775S	5		36 1/16" - 42"	38 9/16" - 45"
CON776S	6		42 1/16" - 48"	45 1/16" - 48"
CON772H	2	HOLD-OPEN	*18" - 24"	---
CON773H	3		24 1/16" - 30"	27" - 32"
CON774H	4		30 1/16" - 36"	32 1/16" - 38 1/2"
CON775H	5		36 1/16" - 42"	38 9/16" - 45"
CON776H	6		42 1/16" - 48"	45 1/16" - 48"

\*Butt hung only on this size door. No swing clear hinges  
Refer to the price list for stock sizes and finish.

MEDIUM DUTY CONCEALED OVERHEAD STOPS AND HOLDERS CROSS-REFERENCE CHART

CAL-ROYAL	GLYNN JOHNSON	ABH	ROCKWOOD	RIXSON	DORMA
STOP ONLY					
CON772S	412S	4021	OH201M	2-136	712S
CON773S	413S	4022	OH202M	2-236	713S
CON774S	414S	4023	OH203M	2-336	714S
CON775S	415S	4024	OH204M	2-436	715S
CON776S	416S		OH205M	2-536	716S
HOLDER					
CON772H	412H	4011	OH201M	2-126	712H
CON773H	413H	4012	OH202M	2-226	713H
CON774H	414H	4013	OH203M	2-326	714H
CON775H	415H	4014	OH204M	2-426	715H
CON776H	416H		OH205M	2-526	716H

## HEAVY DUTY CONCEALED OVERHEAD DOOR HOLDER AND STOPS

### CON880 SERIES



#### Application

- Interior or exterior doors
- Single or double acting
- Non-handed
- Recommended for high traffic, heavy abuse installations

#### Features

- **Heavy duty concealed**
- Slide track design
- Stop or hold open function
- 1 3/4" minimum door thickness
- 110° maximum opening
- Durable slider cam
- Surface on / off knob on hold open models
- Heavy shock absorber spring provides 5-7° compression before dead stop
- 1 3/16" square channel
- Complete screw packet for installation in wood and machine screws for door and frame
- Hanging means other than standard butts or offset pivots require special templating and pricing. Consult factory



**DOOR OPENING CHART**

MODEL #	SIZE	FUNCTION	BUTT OFFSET PIVOTS	CENTER HUNG PIVOTS
CON882S	2	STOP ONLY	*24" - 28"	---
CON883S	3		28 1/16" - 33"	30" - 36"
CON884S	4		33 1/16" - 38"	36 1/16" - 41"
CON885S	5		38 1/16" - 43"	41 1/16" - 46"
CON886S	6		43 1/16" - 48"	46 1/16" - 50"
CON882H	2	HOLD-OPEN	*24" - 28"	---
CON883H	3		28 1/16" - 33"	30" - 36"
CON884H	4		33 1/16" - 38"	36 1/16" - 41"
CON885H	5		38 1/16" - 43"	41 1/16" - 46"
CON886H	6		43 1/16" - 48"	46 1/16" - 50"

#### Compliance

- ANSI A156.8 UL Listed as STOP Function

\*Butt hung only on this size door. No swing clear hinges  
Refer to the price list for stock sizes and finish.

**CONCEALED OVERHEAD STOPS AND HOLDERS CROSS-REFERENCE CHART**

CAL-ROYAL	GLYNN JOHNSON	ABH	ROCKWOOD	RIXSON	DORMA
<b>STOP ONLY</b>					
CON882S	102S	1027	OH101S	1-136	912S
CON883S	103S	1022	OH102S	1-236	913S
CON884S	104S	1023	OH103S	1-336	914S
CON885S	105S	1024	OH104S	1-436	915S
CON886S	106S	1025	OH105S	1-536	916S
<b>HOLDER</b>					
CON882H	102H	1017	OH101H	1-126	912H
CON883H	103H	1012	OH102H	1-226	913H
CON884H	104H	1013	OH103H	1-326	914H
CON885H	105H	1014	OH104H	1-426	915H
CON886H	106H	1015	OH105H	1-526	916H

## HANDICAP RESTROOM SIGNS (ADA) WITH BRAILLE

- Includes Tactile Characters & Grade 2 Braille
- Meets Size and Placement Specifications
- Double Faced Tape for Easy Installation

- Individually Poly-bagged
- Packed 10pcs. per Inner Box, 100 pcs. per Master Carton (AGH-U3: 50 pcs. per Master Carton)

ITEM	SIZE	ITEM #	FINISH
Men, with Braille, pictogram, text	6" x 9"	M68	Blue or Black
Men Handicap, with Braille, pictogram, text	6" x 9"	MH68	
Boys Handicap, with Braille, pictogram, text	6" x 9"	BOYH68	
Women, with Braille, pictogram, text	6" x 9"	W68	
Women Handicap, with Braille, pictogram, text	6" x 9"	WH68	
Girls Handicap, with Braille, pictogram, text	6" x 9"	GIRH68	
Unisex Restroom, with Braille, pictogram, text	6" x 9"	RS68	
Unisex Handicap Restroom, with Braille, pictogram, text	6" x 9"	RSH68	
No Smoking, with Braille, pictogram, text	6" x 9"	NS68	
Exit, with Braille, pictogram, text	6" x 9"	CAEXT69	
Exit Route, with Braille, text	6" x 6"	CAEXRT4534	
Men, with Braille, text	1 3/4" x 6"	M1346	
Women, with Braille, text	1 3/4" x 6"	W1346	
Restroom, with Braille, text	1 3/4" x 6"	RS1346	
All Gender with Men, Women, and Handicap Logo, with Braille, pictogram, text	6" x 9"	AGH-69	
All Gender with Men, Women, and Transgender Logo, with Braille, pictogram, text	6" x 9"	AGR-71	
All Gender Restroom, with Braille, text	4" x 8"	AGH-48	
All Gender Restroom, Contrasting Triangle on Circle	12" Circle	AGH-U3	



GIRH68



M68



W68



RS68



NS68



CAEXT69



AGH-69



AGR-71



BOYH68



MH68



WH68



RSH68



AGH-U3



AGH-48



CAEXRT4534



M1346



W1346



RS1346

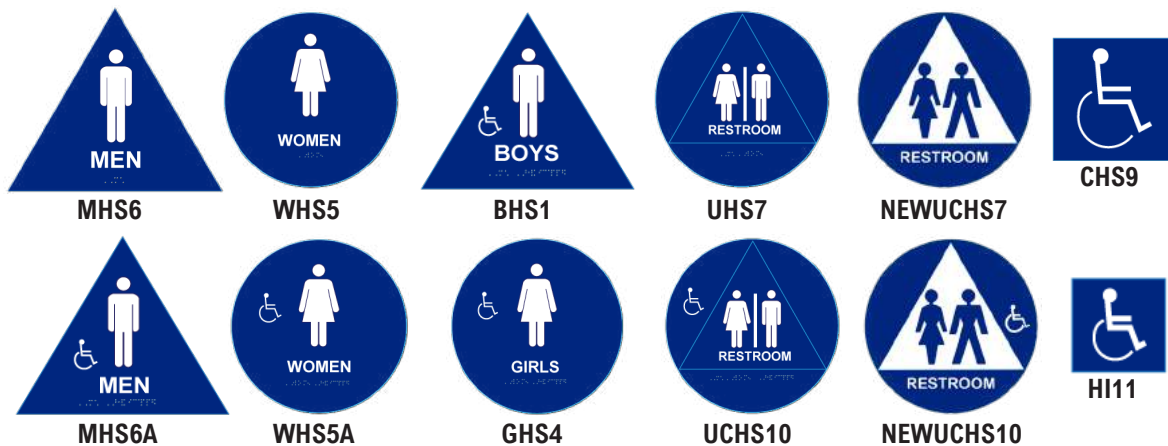
## HANDICAP RESTROOM SIGNS (ADA) WITH BRAILLE

- Complies to Exterior and Interior Handicap Accessible Restrooms and International Symbol of Signs
- Packed 10 pcs. per Inner Box, 100 pcs. per Master Carton (may vary depending on customers request)
- Raised Letters and Symbols
- Brailled for the Blind
- Double Faced Tape for Easy Installation
- Individually Poly-bagged

ITEM	SIZE	ITEM #	FINISH
Women Sign, Raised and Braille	12" Circle	WHS5	Blue Only
Girls Sign, Raised and Braille	12" Circle	GHS4	
Men Sign, Raised and Braille	10 1/2" High Triangle	MHS6	
Boys Sign, Raised and Braille	10 1/2" High Triangle	BHS1	
Women Sign, Raised and Braille, and Handicap Logo	12" Circle	WHS5A	Blue or Black
Men Sign, Raised and Braille, and Handicap Logo	10 1/2" High Triangle	MHS6A	
Unisex, Raised and Braille	12" Circle	UHS7	
Unisex, Raised and Braille, and Handicap Logo	12" Circle	UCHS10	
Unisex, Raised and Braille	12" Circle	NEWUCHS7	
Unisex, Raised and Braille, and Handicap Logo	12" Circle	NEWUCHS10	

## DECALS AND STICKERS

Blue Square Plastic Sign and Handicap Logo	8" x 8"	CHS9	Blue
Blue Insignia Handicap Logo	4" x 4"	HI11	White on Blue
This door to remain unlocked during business hours	1 1/2" x 24"	WDC13	White on Black
This door to remain unlocked during business hours	1 1/2" x 24"	BDC12	Black on Clear
These doors to remain unlocked during business hours	1 1/2" x 24"	TDUW8	White on Black
These doors to remain unlocked during business hours	1 1/2" x 24"	TDUB1	Black on Clear
This door to remain unlocked when building is occupied	1 1/2" x 27 1/2"	BDO-5	Black on Clear
This door to remain unlocked when building is occupied	1 1/2" x 27 1/2"	WDO-11	White on Black
These doors to remain unlocked when building is occupied	1 1/2" x 27 1/2"	TWOC-14	White on Black
These doors to remain unlocked when building is occupied	1 1/2" x 27 1/2"	TBOC-19	Black on Clear



THIS DOOR TO REMAIN UNLOCKED DURING BUSINESS HOURS  
WDC13

THIS DOOR TO REMAIN UNLOCKED DURING BUSINESS HOURS  
BDC12

THESE DOORS TO REMAIN UNLOCKED DURING BUSINESS HOURS  
TDUW8

THESE DOORS TO REMAIN UNLOCKED DURING BUSINESS HOURS  
TDUB1

THIS DOOR TO REMAIN UNLOCKED WHEN BUILDING IS OCCUPIED  
WDO-11

THIS DOOR TO REMAIN UNLOCKED WHEN BUILDING IS OCCUPIED  
BDO-5

THESE DOORS TO REMAIN UNLOCKED WHEN BUILDING IS OCCUPIED  
TWOC-14

THESE DOORS TO REMAIN UNLOCKED WHEN BUILDING IS OCCUPIED  
TBOC-19



## CALIFORNIA-APPROVED RESTROOM SIGNS with BRAILLE

- Includes Tactile Characters & Contracted Grade 2 Braille
- Meets Size and Placement Specifications
- Double Faced Tape for Easy Installation
- Individually Poly-bagged
- Packed 10pcs. per Inner Box, 100 pcs. per Master Carton

ITEM	SIZE	ITEM #	FINISH
Men Handicap, with Braille, pictogram, text	6" x 9"	CAMH69	Blue
Women Handicap, with Braille, pictogram, text	6" x 9"	CAWH69	
Unisex Restroom Handicap, with Braille, pictogram, text	6" x 9"	CARSH69	
Handicap Accessible, with Braille, pictogram, text	6" x 9"	CACCS69	
Exit, with Braille, text	6" x 9"	CAEXT69	Blue or Black
Men, with Braille, text	1 3/4" x 8"	CAM1348	Blue
Women, with Braille, text	1 3/4" x 8"	CAW1348	
Restroom, with Braille, text	1 3/4" x 8"	CARS1348	

Specification Sheets available for submittal purposes at [www.cal-royal.com](http://www.cal-royal.com). Click on "Specification Sheets Image"



**CAMH69**



**CAWH69**



**CARSH69**



**CAEXT69**



**CACCS69**



**CAM1348**



**CAW1348**



**CARS1348**

## SLIDING DOOR HARDWARE

- Adds modern look to ordinary doors and doorways
- Ultra-quiet rollers and ball bearing wheels
- Excellent solution to create beautiful living spaces
- 304 Grade Stainless Steel
- Easy to assemble
- Includes standard bumpers on both sides
- **Optional Soft Action Stop or Soft Close System**  
( Refer to pages 45 to 47 )
- Door & door handle not included

### SPECIFICATIONS

Max Weight for Wood / Glass Doors or Sliding Panel	200 lbs (90kg)	
Wood Door Thickness	1 $\frac{3}{8}$ " - 1 $\frac{3}{4}$ " ( 35 - 45 mm )	
Glass Door Thickness	$\frac{5}{16}$ " - $\frac{1}{2}$ " ( 8 - 12 mm )	
Finish	Satin Stainless Steel ( US32D )	
Sliding Rod Length	6' 6"	8' 2"
Max Door Opening	36"	48"

## SDH SERIES - STAINLESS STEEL SLIDING DOOR HARDWARE

For ( 6' 6" long ) sliding rod length, **ADD SUFFIX 66** and for ( 8' 2" long ) sliding rod length, **ADD SUFFIX 82** after the Item #. e.g. SDH1066 or SDH1082



**SDH10** ( Track w/ Regular Stop for Wood Doors )

**Mounting Type:** Top

**Design:** Single Wheel



**SDH11** ( Track w/ Regular Stop for Wood Doors )

**Mounting Type:** Top

**Design:** Spoke Wheel



**SDH12** ( Track w/ Regular Stop for Wood Doors )

**Mounting Type:** Top

**Design:** Dual Wheel



**SDH20** ( Track w/ Regular Stop for Glass Doors )

**SDH30** ( Track w/ Regular Stop for Wood Doors )

**Mounting Type:** Surface

**Design:** Strap Single Wheel



**SDH21** ( Track w/ Soft Stop for Glass Doors )

**SDH31** ( Track w/ Soft Stop for Wood Doors )

**Mounting Type:** Surface

**Design:** Strap Dual Wheel

## SDH SERIES - STAINLESS STEEL SLIDING DOOR HARDWARE WITH SOFT ACTION STOP

For ( 6' 6" long ) sliding rod length, **ADD SUFFIX 66** and for ( 8'2" long ) sliding rod length, **ADD SUFFIX 82** after the Item #. e.g. SDH1366 or SDH1382

### FOR WOOD DOORS



SOFT ACTION ROLLER STOP  
ITEM #: DS-2200

**SDH13** ( Track w/ Soft Stop )

**Mounting Type:** Top

**Design:** Single Wheel



SOFT ACTION ROLLER STOP  
ITEM #: DS-2200

**SDH14** ( Track w/ Soft Stop )

**Mounting Type:** Top

**Design:** Spoke Wheel



SOFT ACTION ROLLER STOP  
ITEM #: DS-2300

**SDH15** ( Track w/ Soft Stop )

**Mounting Type:** Top

**Design:** Dual Wheel

### FOR WOOD AND GLASS DOORS



SOFT ACTION ROLLER STOP



ITEM #: DS-2200 for Glass



ITEM #: DS-2300 for Wood

**SDH23** ( Track w/ Soft Stop for Glass Doors )

**SDH33** ( Track w/ Soft Stop for Wood Doors )

**Mounting Type:** Surface

**Design:** Strap Single Wheel



SOFT ACTION ROLLER STOP



ITEM #: DS-2200 for Glass



ITEM #: DS-2300 for Wood

**SDH24** ( Track w/ Soft Stop for Glass Doors )

**SDH34** ( Track w/ Soft Stop for Wood Doors )

**Mounting Type:** Surface

**Design:** Strap Dual Wheel

## SDH SERIES - STAINLESS STEEL SLIDING DOOR HARDWARE WITH SOFT CLOSE SYSTEM

- **SCS40 / SCS80 ( Soft Close System )** Pair of Soft Close System at both ends. Comes as a complete set with door track and components. Easy installation on pre-fabricated roller track without the need to mortise on door. Can also be purchased as accessory only.
- **AVAILABLE IN US32D FINISH. SEE NEXT PAGE FOR OTHER STOCK FINISHES.**

For ( 6' 6" long ) sliding rod length, **ADD SUFFIX 66** and for ( 8'2" long ) sliding rod length, **ADD SUFFIX 82** after the Item #. e.g. SCS801666 / SCS401666 or SCS801682 / SCS401682



ITEM	MOUNTING TYPE	DESIGN	MIN DOOR WT	MAX DOOR WT
<b>SCS8016</b> ( w/ SCS80 ) *STANDARD	Top ( Wood Doors )	Single Wheel	88 lbs ( 40 kg )	176 lbs ( 80 kg )
<b>SCS4016</b> ( w/ SCS40 )			44 lbs ( 20 kg )	88 lbs ( 40 kg )



ITEM	MOUNTING TYPE	DESIGN	MIN DOOR WT	MAX DOOR WT
<b>SCS8025</b> <b>SCS8035</b>	Surface ( Glass Doors ) ( Wood Doors )	Strap Single Wheel	88 lbs ( 40 kg )	176 lbs ( 80 kg )
With SCS80 ( Standard )				
<b>SCS4025</b> <b>SCS4035</b>	Surface ( Glass Doors ) ( Wood Doors )		44 lbs ( 20 kg )	88 lbs ( 40 kg )
With SCS40				



ITEM	MOUNTING TYPE	DESIGN	MIN DOOR WT	MAX DOOR WT
<b>SCS8026</b> <b>SCS8036</b>	Surface ( Glass Doors ) ( Wood Doors )	Strap Single Wheel	88 lbs ( 40 kg )	176 lbs ( 80 kg )
With SCS80 ( Standard )				
<b>SCS4026</b> <b>SCS4036</b>	Surface ( Glass Doors ) ( Wood Doors )		44 lbs ( 20 kg )	88 lbs ( 40 kg )
With SCS40				

**Note:** Select correct type of closer for maximum smooth closing operation. Refer to table for door weight limits.



## SDH SERIES - SLIDING DOOR HARDWARE WITH SOFT CLOSE SYSTEM

- Adds modern look to ordinary doors and doorways
- Ultra-quiet rollers and ball bearing wheels
- Excellent solution to create beautiful living spaces
- Comes as a complete set with door track and components.
- Packed standard with **SCS80 (Soft Close System)** pair of soft close system at both ends.
- Easy installation on pre-fabricated roller track without the need to mortise on door.
- **NOW AVAILABLE IN US10B and BLACK FINISH**
- **Carbon Steel Material**
- Maximum door weight is 80 kg ( 176 lbs ).
- **DOOR NOT INCLUDED.**



**SCS801666 ( 6' 6" )**  
**SCS801682 ( 8' 2" )**

**Mounting Type:**  
Top (for Wood Doors)

**Design:**  
Single Wheel



**SCS803566 ( 6' 6" )**  
**SCS803582 ( 8' 2" )**

**Mounting Type:**  
Surface (for Wood Doors)




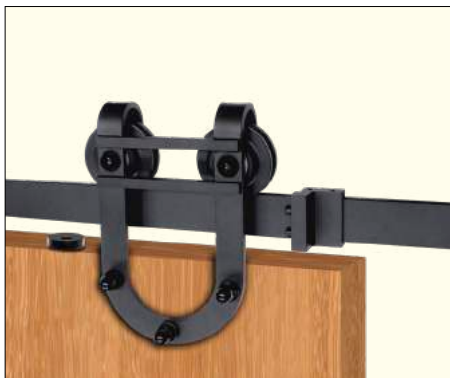

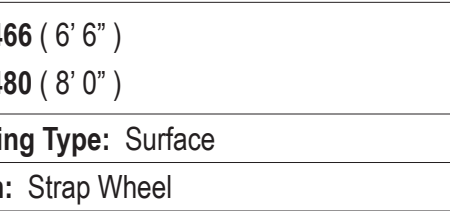
**Design:**  
Strap Single Wheel

## SLIDING DOOR HARDWARE

- Blends seamlessly with modern, rustic, classic, or contemporary interior designs.
- **With optional Soft Close System**  
( Refer to page 49 )
- Provides a unique and clean look to any interior doorway or room divider
- Contains ultra-quiet rollers for smoother operation
- Includes standard bumpers on both sides
- Has a durable Powder Coated Matte Black finish
- Includes all mounting accessories for easy assembly
- DOOR NOT INCLUDED

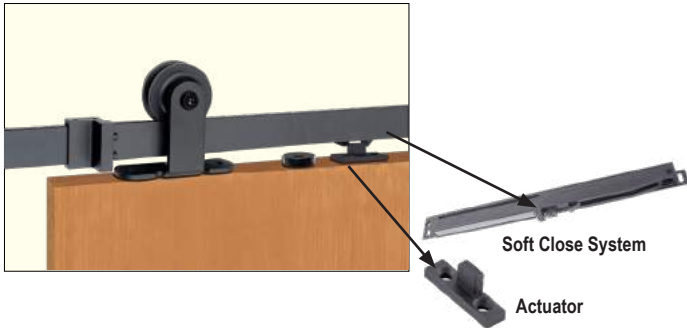
SPECIFICATIONS		
Max Weight for Wood Doors or Sliding Panel	220 lbs (100kg)	
Wood Door Thickness	1 3/8" - 1 3/4" ( 35 - 45 mm )	
Finish	BLACK	
Sliding Rod Length	6' 6"	8' 0"
Max Door Opening	39"	47"

## BDH SERIES - BARN DOOR HARDWARE

	BDH3166 ( 6' 6" ) BDH3180 ( 8' 0" )	
	Mounting Type: Top	
	Design: Single Wheel	
	BDH3066 ( 6' 6" ) BDH3080 ( 8' 0" )	
	Mounting Type: Surface	
	Design: Strap Wheel	
	BDH3266 ( 6' 6" ) BDH3280 ( 8' 0" )	
	Mounting Type: Surface	
	Design: Arrowhead	
	BDH3466 ( 6' 6" ) BDH3480 ( 8' 0" )	
	Mounting Type: Surface	
	Design: Strap Wheel	

## BDH SERIES - BARN DOOR HARDWARE WITH SOFT CLOSE SYSTEM

- **SCSBDH Soft Close System** Pair of Soft Close System at both ends. Comes as a complete set with door track and components. Easy installation on roller track without the need to mortise on door. Maximum door weight is 60 kg ( 132 lbs ). Can also be purchased as accessory only.



**SCSBDH3166 ( 6' 6" )**

**SCSBDH3180 ( 8' 0" )**

**Mounting Type: Top**

**Design: Single Wheel**

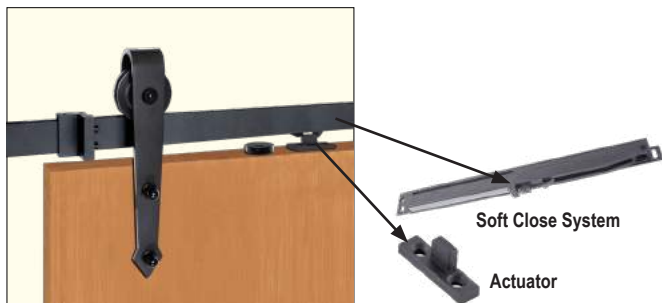


**SCSBDH3066 ( 6' 6" )**

**SCSBDH3080 ( 8' 0" )**

**Mounting Type: Surface**

**Design: Strap Wheel**

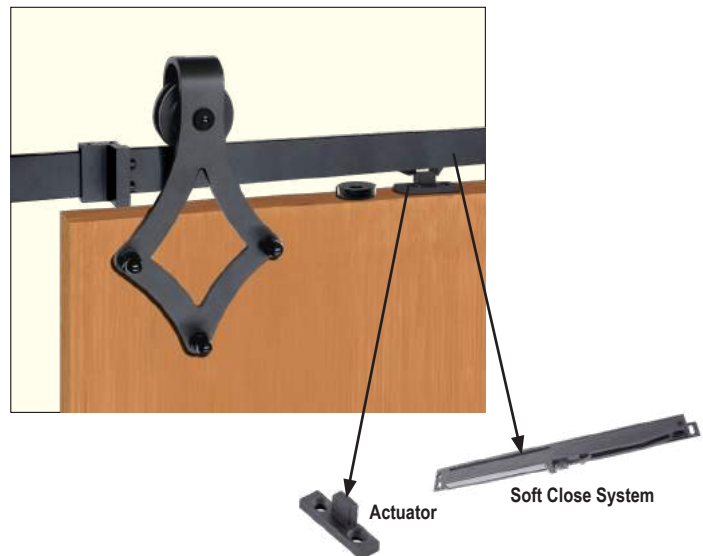


**SCSBDH3266 ( 6' 6" )**

**SCSBDH3280 ( 8' 0" )**

**Mounting Type: Surface**

**Design: Arrowhead**

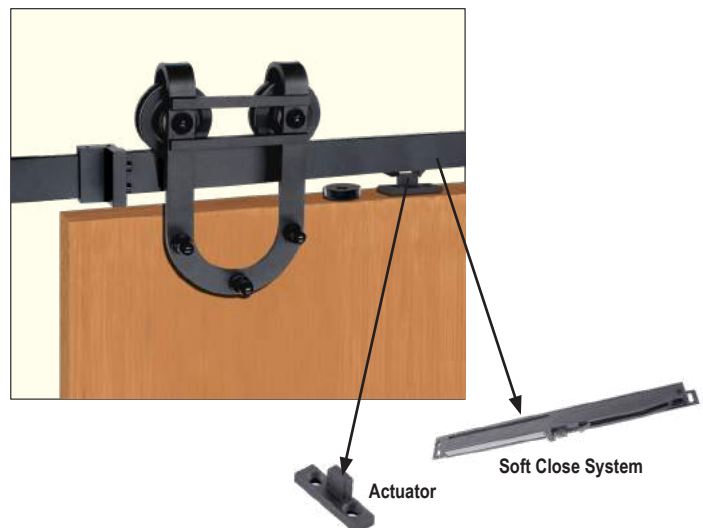


**SCSBDH3366 ( 6' 6" )**

**SCSBDH3380 ( 8' 0" )**

**Mounting Type: Surface**

**Design: Diamond**



**SCSBDH3466 ( 6' 6" )**

**SCSBDH3480 ( 8' 0" )**

**Mounting Type: Surface**

**Design: Horseshoe**

## SLIDING DOOR HARDWARE

- Blends seamlessly with modern, rustic, classic, or contemporary interior designs.
- **With optional Soft Close System**
- Provides a unique and clean look to any interior doorway or room divider
- Contains ultra-quiet rollers for smoother operation
- Includes adjustable bumpers on both sides
- Has a durable **US15 Satin Nickel finish**
- Includes all mounting accessories for easy assembly
- **DOOR NOT INCLUDED**

### SPECIFICATIONS

Max Weight for Wood Doors or Sliding Panel	220 lbs (100kg)	
Wood Door Thickness	1 3/8" - 1 3/4" ( 35 - 45 mm )	
Finish	Satin Nickel	
Sliding Rod Length	6' 6"	8' 0"
Max Door Opening	39"	47"

## BDH SERIES - BARN DOOR HARDWARE



**BDH3066 ( 6' 6" )**  
**BDH3080 ( 8' 0" )**

**Mounting Type:** Surface

**Design:** Strap Wheel



**BDH3166 ( 6' 6" )**  
**BDH3180 ( 8' 0" )**

**Mounting Type:** Top

**Design:** Single Wheel

## BDH SERIES - BARN DOOR HARDWARE WITH SOFT CLOSE SYSTEM

- **SCSBDH Soft Close System** Pair of Soft Close System at both ends. Comes as a complete set with door track and components. Easy installation on roller track without the need to mortise on door. Maximum door weight is 60 kg ( 132 lbs ). Can also be purchased as accessory only.



**SCSBDH3066 ( 6' 6" )**  
**SCSBDH3080 ( 8' 0" )**

**Mounting Type:** Surface

**Design:** Strap Wheel



**SCSBDH3166 ( 6' 6" )**  
**SCSBDH3180 ( 8' 0" )**

**Mounting Type:** Top

**Design:** Single Wheel



## SDH SERIES ACCESSORIES

ITEM #	DESCRIPTION	FINISH
SDH-SPC-17ADJ	17mm ( <sup>11</sup> / <sub>16</sub> " ) Spacer for <b>Adjustable Mount Plates</b>	US32D
SDH-SPC-13ADJ	13mm ( <sup>33</sup> / <sub>64</sub> " ) Spacer for <b>Adjustable Mount Plates</b>	
SDH-SPC-06ADJ	6mm ( <sup>15</sup> / <sub>64</sub> " ) Spacer for <b>Adjustable Mount Plates</b>	
SDH-SPC-05	5mm ( <sup>13</sup> / <sub>64</sub> " ) Spacer for <b>Adjustable Mount Plates</b>	PVC
SDH-SPC-015	1.5mm ( <sup>1</sup> / <sub>16</sub> " ) Spacer for <b>Adjustable Mount Plates</b>	
SDH-SPC-17FIX	17mm ( <sup>11</sup> / <sub>16</sub> " ) Spacer for <b>Fixed Mount Plates</b>	
SDH-SPC-13FIX	13mm ( <sup>33</sup> / <sub>64</sub> " ) Spacer for <b>Fixed Mount Plates</b>	US32D
SDH-SPC-06FIX	6mm ( <sup>15</sup> / <sub>64</sub> " ) Spacer for <b>Fixed Mount Plates</b>	
DS-1012	Door Stop for <b>SDH10, SDH11, SDH20, and SDH30</b>	
DS-2100	Door Stop for <b>SDH12, SDH21 and SDH31</b>	
DS-2200	Soft Action Roller Stop for <b>SDH10, SDH11, SDH20 and SDH21</b>	
DS-2300	Soft Action Roller Stop for <b>SDH12, SDH30 and SDH31</b>	
SDH-FG-WD	SDH Floor Guide for <b>Wood Doors</b>	
SDH-FG-GL	SDH Floor Guide for <b>Glass Doors</b>	
SDHRC	SDH Rail Connector for interconnecting two rails together	
SDH-SCWD-ACT	<b>Wood Door</b> Actuators for SDH Soft Close System	
SDH-SCGL-ACT	<b>Glass Door</b> Actuators for SDH Soft Close System	
SCS40 or SCS80	SDH Soft Close System; <b>SCS40</b> (40-88 lbs) or <b>SCS80</b> (88-176 lbs)	
SR166A	6'6" SDH Sliding Rod with Accessories, <b>Adjustable Mount</b> with Spacers <i>(See Pricelist page for reference)</i>	
SR182A	8'2" SDH Sliding Rod with Accessories, <b>Adjustable Mount</b> with Spacers <i>(See Pricelist page for reference)</i>	
SR166F	6'6" SDH Sliding Rod with Accessories, <b>Fixed Mount</b> <i>(See Pricelist page for reference)</i>	
SR182F	8'2" SDH Sliding Rod with Accessories, <b>Fixed Mount</b> <i>(See Pricelist page for reference)</i>	
SCRAIL66	6'6" SDH Rail with built-in (2) <b>SCS80</b> Soft Closer and Accessories <i>(See Pricelist page for reference)</i>	
SCRAIL80	8'2" SDH Rail with built-in (2) <b>SCS80</b> Soft Closer and Accessories <i>(See Pricelist page for reference)</i>	

						
SDH-SPC-17ADJ (17mm)	SDH-SPC-13ADJ (13mm)	SDH-SPC-06ADJ (6mm)	SDH-SPC-17FIX (17mm)	SDH-SPC-13FIX (13mm)	SDH-SPC-06FIX (6mm)	
						
SDH-SPC-05 (05mm)	SDH-SPC-015 (1.5mm)	DS-1012	DS-2100	DS-2200	DS-2300	
						
SDH-FG-WD	SDH-FG-GL	SDHRC	SDH-SCWD-ACT	SDH-SCGL-ACT	SCS40 (40-88 LBS) / SCS80 (88-176 LBS)	

## BDH SERIES ACCESSORIES

ITEM #	DESCRIPTION	FINISH
BDH-SPC-55	55mm (2 3/16") Barn Door Spacer	BLACK
BDH-SPC-50	50mm (2") Barn Door Spacer	
BDH-SPC-45	45mm (1 3/4") Barn Door Spacer	
BDH-SPC-40	40mm (1 9/16") Barn Door Spacer	
BDH-SPC-34	34mm (1 5/16") Barn Door Spacer	
BDH-SPC-29	29mm (1 1/8") Barn Door Spacer	
BDH-SCRW-130	130mm (5 1/8") Barn Door Mounting Screws	
BDH-SCRW-120	120mm (4 3/4") Barn Door Mounting Screws	
BDH-SCRW-110	110mm (4 5/16") Barn Door Mounting Screws	
BDH-SCRW-100	100mm (3 15/16") Barn Door Mounting Screws	
BDH-SCRW-090	90mm (3 9/16") Barn Door Mounting Screws	
BDHBOLT134	Long Bolts for 1 3/4" thick doors	
BDHBOLT138	Short Bolts for 1 3/8" thick doors	
BDHAJP	Barn Door Anti-Jump Pins	
BDHFG	Barn Door Floor Guide	
BDHSTP-OPN	Barn Door Stoppers	
BDHSTP-CLS	Barn Door Stoppers	
BDHCP	Barn Door Connector Plate. Securely connects two door tracks with easy installation.	
BDHCP-SLIM	Slim Barn Door Connector Plate. Securely connects two door tracks with easy installation.	
BDH-SCWD-ACT	Wood Door Actuators for BDH Soft Close System	
SCSBDH	BDH Soft Close System. 60 kg (132 lbs) maximum door weight.	
BDPUL6000	Flat Type, Barn Door Pull Handle, 9 1/2" x 1 1/4" x 2"	
FTRACK66	6'6" BDH Sliding Track with Accessories (See Pricelist page for reference)	
FTRACK80	8'2" BDH Sliding Track with Accessories (See Pricelist page for reference)	
SCBAR3066	6'6" BDH Sliding Track with Soft Close System and Accessories (See Pricelist page for reference)	
SCBAR3080	8'2" BDH Sliding Track with Soft Close System and Accessories (See Pricelist page for reference)	

							
BDH-SCRW-130 (130mm)		BDH-SPC-55 (55mm)	BDH-SPC-50 (50mm)	BDH-SPC-45 (45mm)	BDH-SPC-40 (40mm)	BDH-SPC-34 (34mm)	BDH-SPC-29 (29mm)
							
BDH-SCRW-120 (120mm)							
							
							
BDH-SCRW-100 (100mm)							
		BDHAJP	BDHFG	BDHSTP-OPN	BDHSTP-CLS	BDHCP	BDHCP-SLIM
BDH-SCRW-090 (90mm)							
							
BDHBOLT134	BDHBOLT138						
		BDH-SCWD-ACT	SCSBDH (132LBS MAX WEIGHT)			BDPUL6000	

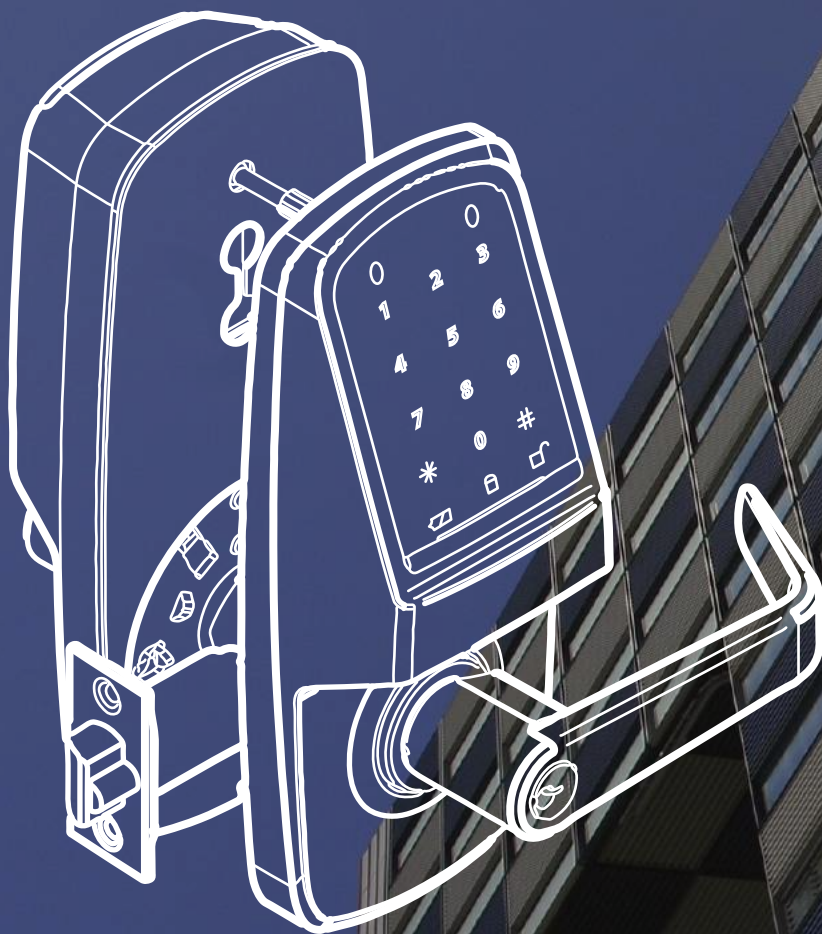
## SDH & BDH SERIES ACCESSORIES

ILLUSTRATION	ITEM #	DESCRIPTION	FINISH
 <p>PULL-15778-BTB      PULL-2815      FFP-28</p>	FFP-28	8" x 2 1/16" Rectangular <b>Mortised</b> Door Handle for Wood Doors, 7 3/32" CTC	US32D, BLACK
	PULL-2815	Sliding Door Handle Pull for Wood Doors, 7 3/32" CTC 11 7/8" x 1" Door Handle Pull, 8" x 2 1/16" Rectangular <b>Mortised</b> Door Handle	US32D, BLACK
	PULL-15778-BTB	11 7/8" x 1" Back to Back Door Pull Handle for Wood Doors, 7 7/8" CTC	US32D, BLACK, US10B
 <p>SQP-012      PULL-60      FFP-250      PULL-510</p>	FFP-250	8 21/32" x 2 3/8" Round Corner, <b>Surface Mounted</b> Door Handle for Wood Doors, 7 3/32" CTC	US32D, BLACK, US10B
	PULL-60	Sliding Door Handle Pull for Wood Doors, 7 3/32" CTC 11 13/16" x 1" Door Handle Pull	US32D, BLACK, US10B
	SQP-012	12" x 2 1/2" x 2 5/32" Back to Back Square Pull Handle for Wood Doors, 11 7/32" CTC	US32D, BLACK
	PULL-510	Rustic Barn Door Handle, <b>Surface Mounted</b> for Wood Doors, 7" CTC, Dimensions: Approx. 12" x 1" x 1", supplied with (2) long bolts and hammered square washers.	BLACK
 <p>FFP-200      FFP-214      FFP-215</p> <p>SDH-PLTD      SDLP      FFP-300</p> <p>SDH-FG-ADJ8      SDH-FG-ADJ1</p>	FFP-200	2" x 1 13/32" Round Door Handle for Wood Doors, 5/16" hole diameter thru door	US32D, BLACK
	FFP-214	2 3/16" x 1 13/32" Round Door Handle for Wood Doors, 5/8" hole diameter thru door	US32D, BLACK
	FFP-215	2 1/2" x 1 11/32" Round Door Handle for Wood Doors, 1 27/32" hole diameter thru door	US32D, BLACK
	FFP-300	Rustic Pocket Door Pull for Wood Doors, 4 3/32" CTC Dimensions: Approx. 2 5/8" x 5 1/8" x 1 1/8"	BLACK
	SDLP	4 5/8" x 1 1/4" Flip Privacy Sliding Door Lock with Strike Plate and Emergency Key	US32D, BLACK
	SDH-PLTD	2 1/2" x 3 3/16" Tear Drop Privacy Sliding Door Lock with 2 5/32" x 2 15/16" Strike Plate	US32D, US19, US10B
	SDH-FG-ADJ1	Adjustable Floor Guide for both pre-grooved and non-grooved wood doors Front Arm: 1 3/4" x 1 3/4", Back Arm: 1 7/8" x 1"	US32D, BLACK
	SDH-FG-ADJ8	Adjustable Floor Guide Roller for non-grooved wood doors Dimensions: 2"(H) x 1 9/16" (W) x 4 1/8" (L)	US32D, BLACK
	SDLP-RND	Round Rose Privacy Sliding Door Lock, 1 1/2" x 5/8" thumbturn, with adjustable backset and push button dust proof strike	US32D, US10B
	SDLP-RND-ADA	Round Rose Privacy Sliding Door Lock, 2 1/2" x 5/8" ADA thumbturn, with adjustable backset and push button dust proof strike	US32D, US10B
 <p>SDLP-RND      SDLP-RND-ADA      SDLP-SQ-ADA</p>	SDLP-SQ-ADA	Square Rose Privacy Sliding Door Lock, 2 3/8" x 5/8" ADA thumbturn, with adjustable backset and push button dust proof strike	US32D, US10B





# ELECTRONIC + ELECTRIFIED





# ELECTRONIC AND ELECTRIFIED HARDWARE



GRADE 1

GRADE 2



POWER TRANSFERS



DEADBOLTS



POWER SUPPLIES



EXIT DEVICES



DOOR HOLDERS



EXIT TRIMS



MORTISE AND CYLINDRICAL LOCKS

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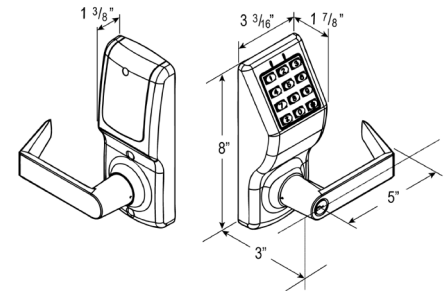
# CR3000

## DIGITAL KEYPAD DOOR LOCK HEAVY DUTY GRADE 1

Available with Interchangeable Core

### FEATURES

- MASTER CODE
- 10 MANAGER CODES
- 1 SUB-MASTER CODE
- 90 USER CODES
- 5 SERVICE CODES
- PASSAGE MODE
- WEATHER RESISTANT
- BUZZER & LED INDICATORS
- ANTI-TAMPER LOCKOUT
- LONG-LIFE BATTERY OPERATION
- 2 REMOTE SWITCHES
- INTERCHANGEABLE CORE
- CLUTCH TECHNOLOGY
- NON-HANDED, REVERSIBLE
- ENABLE & DISABLE USERS MODE
- TACTILE METAL KEYPAD
- USER FRIENDLY
- EASY INSTALLATION & PROGRAMMING
- 2 YEAR WARRANTY



**INTERIOR**

### SPECIFICATIONS

#### APPLICATIONS

For offices, schools, hospitals, apartments, hotel / motel, residential, commercial and public buildings.

#### DOOR RANGES

1 3/8" to 2" thickness.

#### BACKSET

2 3/4" Standard, 2 3/8", 3 3/4", 5" and 2 3/4" anti-friction latch with 3/4" throw for pair of fire doors optional.

#### LATCH FACEPLATE

Standard 2 1/4" x 1 1/8" for 2 3/4" backset.  
Optional 2 1/4" x 1 1/8" for 2 3/8" backset.

#### STRIKES

ASA strike standard, "T" and full lip strike available on request.

#### ANSI STANDARDS

Meets or exceeds BHMA / ANSI A 156.2 Series 4000 Grade 1 requirements.

#### POWER SUPPLY

4 AA Batteries (comes standard in packing)

#### CLUTCH

Clutch technology allows turning of lever without retracting latch, thus prolonging the life of the lock by reducing stress on the spindle and other parts.

#### CYLINDER & KEYWAYS

6 pin solid brass "C" keyway standard. Schlage E, Schlage C-K, Russwin D1-2-3-4, Corbin 59/60, Corbin-Russwin L4, Sargent LA-LB-LC, Falcon / Weiser E, Arrow A, Yale 8, Yale GA and Kwikset. Can also accept Medeco, Assa, Kaba and Cal-Royal (HSK) High Security Cylinders.

#### INTERCHANGEABLE CORE (IC)

Interchangeable Core locks will accept compatible 6 or 7 pin cores with BEST, FALCON and ARROW. Prefix "IC" before part number.

#### WEATHER RESISTANT

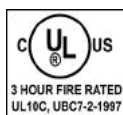
All models are weather resistant for temperature ranges of +158°F to -22°F (+70°C to -30°C).

#### KEYPAD

12 programmable buttons for multi-level access functions including group or individual user codes, master and management codes, passage and emergency or service codes.

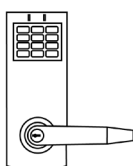
FINISHES AVAILABLE		
BHMA SYMBOL	US CODE	DESCRIPTION
626	US26D	Satin Chrome
613	US10B	Oil Rubbed Bronze

Refer to price list for stock finishes and functions



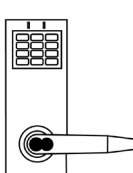
## FUNCTIONS

### CR3000



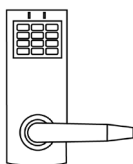
Latch bolt operated by lever from either side, except outside has to enter a pre-programmed code in the keypad in order to retract the latch upon turning the lever. Key overrides the use of the keypad.

### ⌘ ICCR3000



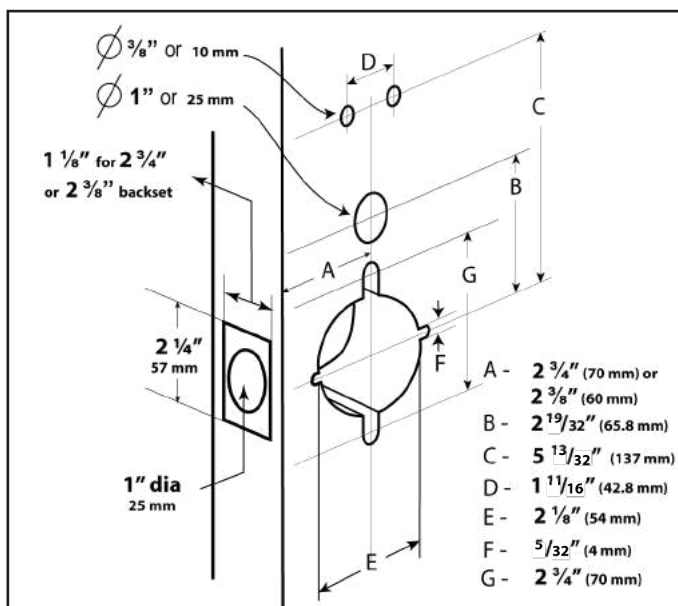
Latch bolt operated by lever from either side, except outside has to enter a pre-programmed code in the keypad in order to retract the latch upon turning the lever. Key overrides the use of the keypad. Available with Interchangeable Core.

### CR3030



Latch bolt operated by lever from either side, except outside has to enter a pre-programmed code in the keypad in order to retract the latch upon turning the lever.

## DOOR PREPARATION



## FEATURES

- **Master Code** – performs all programming functions.
- **Sub-Master Code** – performs all programming functions except delete or change Master Code.
- **Manager Codes** – CR3000 can accommodate 10 Managers each having different codes and under each Manager has 9 Users (1 Manager + 9 Users = 1 Bank). Managers are capable of programming / adding and deleting User codes under his Bank. Managers are also capable of accessing the next higher Bank until another Manager Code appears.
- **Service Codes (5)** – are one-time codes only. It cannot be used again. Once a Service Code is entered, the unit will unlock but will automatically delete the code.
- **Passage Mode** – once enabled, the unit is unlocked continuously until "Disable Passage Mode" is initiated.
- **Tones and LED Indicators** – can be programmed for different settings. Making sure that every key pressed is confirmed by an accompanying LED and / or tone.
- **Next Free Code Location Finder** – no need of guessing what free location is available in entering a new code. CR3000 can pin point and tell you where the next available location is.
- **Code Locator Function** – CR3000 can tell you the exact location of a certain code. Making it easy to determine as to what manager a user code is under.
- **Keypad Anti-Tamper Lockout** – if an invalid code is entered 3 times in succession, the unit will turn off for 30 seconds to prevent tampering.
- **Remote Switch / Release** – CR3000 provides 2 Remote Switches. Either can be used for an emergency push button switch, or connected to alarm systems such as fire alarms.
- **Weather Resistant** – CR3000 are manufactured making sure that internal electronic parts are protected from moisture, dust, water and corrosion. All models are weather resistant for temperature ranges of +158°F to -22°F (+70°C to -30°C).
- **Clutch Technology** – the outside lever of the CR3000 is a free-wheeling lever. If no valid code is entered, the lever will just turn freely without moving any parts inside, thus preventing breaking or tampering.
- **Non-Handed** – CR3000 can be installed for both left and right door opening.

⌘(IC) Indicates function available with BEST, FALCON & ARROW Interchangeable Core.

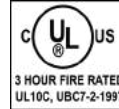


# CR6000

DIGITAL TOUCH SCREEN DOOR LOCK  
WITH CLUTCH TECHNOLOGY & RFID PROXIMITY CARD  
Optional Interchangeable Core for Best, Falcon and Arrow



**MEETS**  
*The Buy American Act*



## FEATURES

- MASTER CODE
- 3 MANAGER CODES
- 1,000 USER CODES (COMBINED RFID & USER PIN CODE)
- 3 SERVICE CODES
- PASSAGE MODE
- 4-6 DIGIT CODE COMBINATION
- WEATHER RESISTANT
- 9V BATTERY
- ANTI-TAMPER LOCKOUT
- LOCK-OUT MODE
- CLUTCH TECHNOLOGY
- NON-HANDED, REVERSIBLE
- TOUCH SCREEN
- WAKE-UP BUTTON
- PROXIMITY CARD (13.56 MHz)
- RFID KEYFOB
- EASY INSTALLATION AND PROGRAMMING
- USER FRIENDLY
- 2 YEAR WARRANTY



**GN DESIGN**  
CR6000  
ICCR6000

**AT DESIGN**  
AT6000  
ICAT6000



**SPA DESIGN**  
SPA6000  
ICSPA6000



PROXIMITY RFID CARD



RFID KEYFOB  
(optional)



9V EMERGENCY  
BATTERY PORT



INSIDE UNIT

## SPECIFICATIONS

### APPLICATIONS

For offices, schools, hospitals, apartments, condo units, hotel / motel, residential, commercial and public buildings.

### DOOR RANGES

1 3/8" to 2".

### BACKSET

2 3/4" standard or 2 3/8" optional backset.

### LATCH FACEPLATE

Standard 1 1/8" x 2 1/4" for 2 3/4" backset.  
Optional 1" x 2 1/4" for 2 3/8" backset.

### STRIKES

ASA Strike standard, T and full lip strike available on request.

### ANSI STANDARDS

Certified ANSI / BHMA A 156.2 Series 4000 Grade 1 requirements.

### CLUTCH

Clutch technology allows turning of lever without retracting latch, thus prolonging the life of the lock by reducing stress on the spindle and other parts.

### PROXIMITY CARD (STANDARD)

Compatible with existing MIFARE infrastructures.  
Operates at 13.56 MHz in accordance with ISO 14443A.  
Inductive distance up to 1 3/16".

### CYLINDER

6-pin solid brass "Schlage C" keyway standard with two brass keys per lock.

### RFID KEYFOB (OPTIONAL)

Operates at 13.56 MHz in accordance with ISO 14443A.  
Inductive distance up to 1 3/16".

### INTERCHANGEABLE CORE (IC)

Interchangeable Core locks will accept compatible 6 or 7 pin cores with BEST and FALCON. Prefix "IC" before part number.

### WEATHER RESISTANT

All models are weather resistant for temperature ranges of -30°F ~ 150°F (-35°C ~ 66°C).

### TOUCH SCREEN

Responds to human touch enabling convenient entrance or access to programming menu. After operation has been completed, the lock reverts to sleep mode.

FINISHES AVAILABLE		
BHMA SYMBOL	US CODE	DESCRIPTION
626	US26D	Satin Chrome
613	US10B	Oil Rubbed Bronze
606	US4	Satin Brass
605	US3	Bright Brass
625	US26	Bright Chrome



## FUNCTIONS

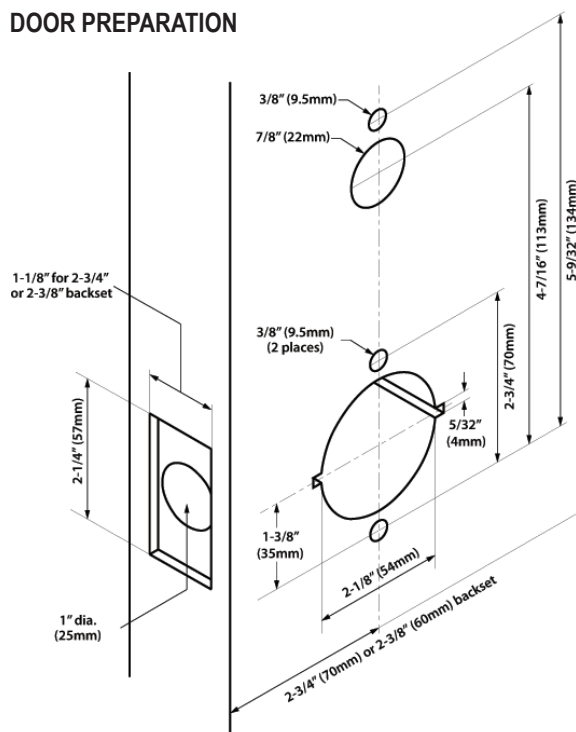
### CR6000

Latch bolt operated by lever from either side. Outside would need to enter pre-programmed code on the touch screen in order to retract the latch upon turning lever. Key overrides the use of the touch screen.

### ICCR6000

Latch bolt operated by lever from either side. Outside would need to enter pre-programmed code on the touch screen in order to retract the latch upon turning lever. Key overrides the use of the touch screen. Available with Small Format Interchangeable Core

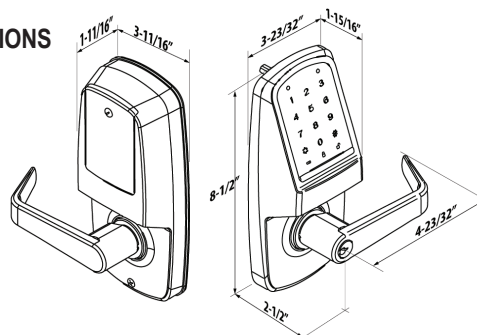
## DOOR PREPARATION



## FEATURES

- **Master PIN Code** - Use for programming the lock and entering Manager and User PIN codes. Can also be use to open the lock and reset to factory settings.
- **Manager PIN Code** - Use to open the door with lock out mode. Also functions like a User PIN code. This feature can also program 3 one-time user codes.
- **User PIN Code** - This feature only opens the lock by entering the code on the touch pad. It won't be able to program or change settings. This lock can accommodate up to 1000, 3 to 6 digits combined RFID and User PIN codes.
- **One-Time User PIN Code** - Can only be used once. This lock can store up to 3 one-time User PIN code simultaneously.
- **Passage Mode** - Enabling passage mode allows continuous entry for non-restricted traffic. Passage mode can either be enabled or disabled by the Master Pin code. When in passage mode, the unlocked padlock icon will appear on the screen.
- **Beep & LED Indicators** - This indicators can either be programmed for different settings. This feature is useful in making sure that every keypress was successfully entered.
- **Lock-Out Mode** - This feature can either be enabled by the Master or Manager PIN Codes. When enabled, it restricts all User PIN codes access except Master and Manager PIN codes.
- **SMART Card**
  - Compatible with existing MIFARE infrastructures
  - Operates at 13.56 MHz in accordance with ISO14443A
  - Inductive distance up to 1 3/16"
- **Touch Screen Anti-Tamper Lock Out** - This function will auto shut off the lock if an invalid code is entered 5 times in succession to prevent tampering.
- **Weather Resistant** - CR6000 are manufactured making sure that internal electronic parts are protected form moisture, dust water and corrosion. All models are weather resistant for temperature ranges of -30°F ~ 150°F (-35°C ~ +66°C).
- **Wake-Up Button** - Pressing this button activates the number pad. Enter the PIN code when while the number pad is illuminated. This button is also used to quit programming mode.

## DIMENSIONS

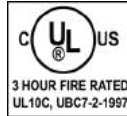


**HOW TO ORDER:** For "AT" and "SPA" design, replace design name. Example, "AT6000". Prefix "IC" for Interchangeable Core.

# PL7100

HEAVY DUTY GRADE 1

COMMERCIAL PHONE LOCK WITH CLUTCH  
COMPATIBLE WITH APPLE AND ANDROID PHONES



**MEETS**  
*The Buy American Act*



- ✓ **APPLE AND ANDROID COMPATIBLE**
- ✓ **BLE (BLUETOOTH LOW ENERGY) MANAGEMENT**
- ✓ **OPTIONAL GATEWAY CONNECTIVITY**  
(REMOTE MANAGEMENT THROUGH THE INTERNET)
- ✓ **PROXIMITY RFID CARD (13.56 MHz) STANDARD**
- ✓ **DIGITAL TOUCHSCREEN**
- ✓ **TIMESTAMPED ACCESS LOG (AUDIT TRAIL)**
- ✓ **RFID KEY FOB (OPTIONAL)**
- ✓ **1 ADMIN PHONE, 49 CLIENT PHONES PER LOCK**
- ✓ **50 DIGITAL TOUCHSCREEN COMBINATIONS PER LOCK**
- ✓ **50 RFID CARDS / KEY FOBs PER LOCK**
- ✓ **1 ADMIN PHONE CAN MANAGE UP TO 250 LOCKS**
- ✓ **10,000 AUDIT TRAIL ENTRIES**
- ✓ **REMOTE SWITCH CONNECTOR**
- ✓ **EMERGENCY KEY OVERRIDE**
- ✓ **ALARM SYSTEM CONNECTOR**
- ✓ **INDIVIDUAL USER ACCESS MODE**
- ✓ **PASSAGE MODE**
- ✓ **WEATHER RESISTANT**
- ✓ **BUZZER & LED INDICATORS**
- ✓ **ANTI-TAMPER LOCKOUT**
- ✓ **LOW BATTERY WARNING**
- ✓ **EMERGENCY CHARGE INTERFACE**
- ✓ **CLUTCH TECHNOLOGY**
- ✓ **NON-HANDED, REVERSIBLE**
- ✓ **2 YEAR WARRANTY**



RFID CARD



RFID KEY FOB  
(optional)



BLEGW-99 (optional) Internet to  
Bluetooth signal converter (BRIDGE)



9V EMERGENCY  
BATTERY PORT

CLUTCH



Meets ADA requirements  
Specially designed for  
Barrier Free Application  
Conforms with ANSI A156.2  
Series 4000, Grade 1 requirements  
Exceeds 1,000,000 cycles

## SPECIFICATIONS

### APPLICATIONS

For offices, schools, hospitals, apartments, hotel / motel, residential, commercial and public buildings.

### ANSI STANDARDS

Meets or exceeds BHMA / ANSI A 156.2 Series 4000 Grade 1 requirements.

### DOOR RANGES

1 3/8" to 1 3/4" thickness.

### BACKSET

2 3/4" Standard, 2 3/8", 3 3/4", 5" and 2 3/4" anti-friction latch with 3/4" throw for pair of fire doors optional.

### LATCH FACEPLATE

Standard 2 1/4" x 1 1/8" for 2 3/4" backset.

Optional 2 1/4" x 1 1/8" for 2 3/8" backset.

### PROXIMITY (RFID) CARD (STANDARD)

2 pcs. included. Compatible with existing MIFARE infrastructure. Operates at 13.56 MHz in accordance with ISO 14443A. Inductive distance up to 1 3/16".

### RFID KEYFOB (OPTIONAL)

Operates at 13.56 MHz in accordance with ISO 14443A. Inductive distance up to 1 3/16".

### POWER SUPPLY

4 AA 1.5V Alkaline Batteries (comes standard in packing).

### CLUTCH

Clutch technology allows turning of lever without retracting the latch. Thus prolonging the life of the lock by reducing stress on the spindle and other parts.

### CYLINDER & KEYWAYS

6 pin solid brass "C" keyway standard. Schlage E, Schlage C-K, Russwin D1-2-3-4, Corbin 59/60, Corbin-Russwin L4, Sargent LA-LB-LC, Falcon/Weiser E, Arrow A, Yale 8, Yale GA and Kwikset. Can also accept Medeco, Assa, Kaba and Cal-Royal (HSK) High Security Cylinders.

### WEATHER RESISTANT

All models are weather resistant for operating temperature ranges of +149°F to -4°F (+65°C to -20°C) and storage temperature ranges of +176°F to -22°F (+80°C to -30°C).

### BLUETOOTH CONNECTIVITY

Lock can be managed / synced using the K3 (Apple) and K3+ (Android) app.

### ACCESS LOG (AUDIT TRAIL)

The K3 app features a 24 / 7 activity log, so you can keep track of who accessed the lock. A timestamped access log can be shared by the Admin phone via email. 10,000 audit trail entries.

### STRIKES

ASA strike standard, "T" and full lip strikes available on request.

### BLE GATEWAY CONNECTIVITY

Remote access / management of locks through the internet.





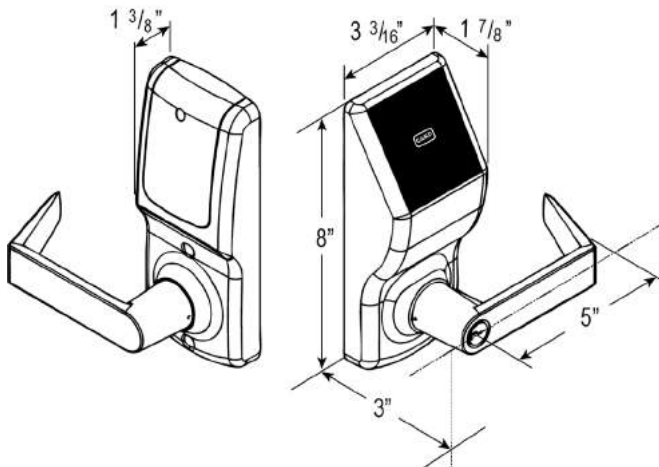
**MEETS**  
The Buy American Act



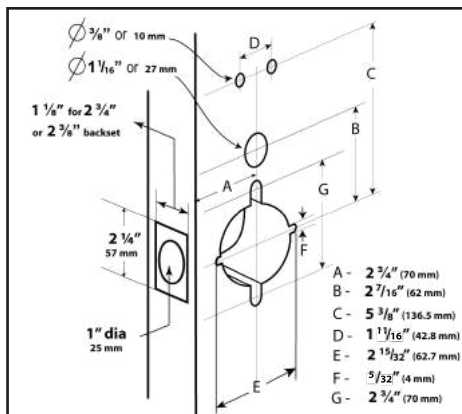
FINISHES AVAILABLE		
BHMA SYMBOL	US CODE	DESCRIPTION
626	US26D	Satin Chrome
613	US10B	Oil Rubbed Bronze
606	US4	Satin Brass
605	US3	Bright Brass
625	US26	Bright Chrome

Refer to price list for stock finishes and functions

TECHNICAL SPECS	
Operating Voltage	4x AA 1.5V Alkaline
Operating Temperature	+149°F to -4°F (+65°C to -20°C)
Storage Temperature	+176°F to -22°F (+80°C to -30°C)
Operating Humidity	5% to 95% relative humidity; non-condensing
Transmit Frequency	13.56 MHz
User ID Capacity	1 Admin + 49 Client Phones + 50 Digital Touch Screen Combinations + 50 (Cards / Key Fobs)

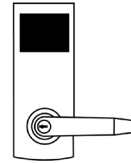


## DOOR PREPARATION



## FUNCTIONS

### PL7100



Latch bolt operated by lever from either side, except outside has to use a pre-programmed RFID card or a registered smart phone to touch the face of the face lock in order to retract the latch upon turning the lever. Key overrides the use of the RFID card and smartphone.

## FEATURES

- **Apple and Android Compatible** – iPhone 4S or above with iOS 8.0 and above. Android 4.3 or above with Bluetooth Low Energy capability.
- **Gateway Connectivity** – optional gateway device to connect compatible locks to the internet, so users can manage locks remotely.
- **Bluetooth Connectivity** – lock can be managed / synced using the K3 (Apple) and K3 (Android phones without NFC), and K3+ (Android phones with NFC) app.
- **NFC (Near Field Communication) Interface** – NFC compatible for android phones. For the complete list of phones, please go to link: [www.nfcworld.com/nfc-phones-list/#available](http://www.nfcworld.com/nfc-phones-list/#available)
- **Admin Phone** – a lock can only have one Administrator phone at a time. Only smartphones are used as Administrator. One admin phone can manage up to 250 locks.
- **Access Log (Audit Trail)** – the K3 app features a 24 / 7 activity log, so you can keep track of who accessed the lock. A timestamped access log can be shared by the Admin phone via email. 10,000 audit trail entries.
- **Passage Mode** – once enabled by the Admin, the unit is unlocked continuously until "Disable Passage Mode" is initiated.
- **Tones and LED Indicators** – indicates the operating status of the lock accompanied by the corresponding tones / beeps.
- **Restricted Access Right** – PL7100 can be programmed to specify the access period or intervals of users.
- **Keypad Anti-Tamper Lockout** – if an invalid code is entered 3 times consecutively, the unit will alarm 10 beeps and stay idle for 1 minute.
- **Remote Switch / Release** – PL7100 provides 2 remote switches. Either can be used for an emergency push button switch, or can be connected to alarm systems / fire alarms.
- **RFID Card (Standard)** – compatible with existing MIFARE infrastructure. Operates at 13.56 MHz in accordance with ISO 14443A. Inductive distance up to 1 3/16".
- **RFID KEY FOB (Optional)** – compatible with existing MIFARE infrastructure. Operates at 13.56 MHz in accordance with ISO 14443A. Inductive distance up to 1 3/16".
- **Weather Resistant** – the PL7100 is designed to make sure that internal electronic parts are protected from moisture, dust, water and corrosion. All models are weather resistant with operating temperature of +149°F to -4°F (+65°C to -20°C) and storage temperature of +176°F to -22°F (+80°C to -30°C).
- **Low Battery Warning** – when voltage is lower than safety power, PL7100 gives beep sound warnings after unlocking the device.
- **Clutch Technology** – the outside lever of the PL7100 is a free-wheeling lever. If no valid code is entered, the lever will just turn freely without moving any parts inside. Thus, preventing breaking or tampering.
- **Non-Handed** – PL7100 is reversible for left and right hand openings.



# RS2100

STANDARD DUTY GRADE 2

RESIDENTIAL / COMMERCIAL PHONE LOCK

COMPATIBLE WITH APPLE AND ANDROID PHONES



Meets ADA requirements  
Specially designed for Barrier Free Application  
Conforms with ANSI A156.2, Series 4000, Grade 2 requirements, Exceeds 1,000,000 cycles

- ✓ **APPLE AND ANDROID COMPATIBLE**
- ✓ **BLE (BLUETOOTH LOW ENERGY) MANAGEMENT**
- ✓ **OPTIONAL GATEWAY CONNECTIVITY (REMOTE MANAGEMENT THROUGH THE INTERNET)**
- ✓ **PROXIMITY RFID CARD (13.56 MHz) STANDARD**
- ✓ **DIGITAL TOUCHSCREEN**
- ✓ **TIMESTAMPED ACCESS LOG (AUDIT TRAIL)**
- ✓ **RFID KEY FOB (OPTIONAL)**
- ✓ **1 ADMIN PHONE, 49 CLIENT PHONES PER LOCK**
- ✓ **50 DIGITAL TOUCHSCREEN COMBINATIONS PER LOCK**
- ✓ **50 RFID CARDS / KEY FOBs PER LOCK**
- ✓ **10,000 AUDIT TRAIL ENTRIES**
- ✓ **1 ADMIN PHONE CAN MANAGE UP TO 250 LOCKS**
- ✓ **EMERGENCY KEY OVERRIDE**
- ✓ **INDIVIDUAL USER ACCESS MODE**
- ✓ **PASSAGE MODE**
- ✓ **WEATHER RESISTANT**
- ✓ **BUZZER & LED INDICATORS**
- ✓ **ANTI-TAMPER LOCKOUT**
- ✓ **LOW BATTERY WARNING**
- ✓ **EMERGENCY CHARGE INTERFACE**
- ✓ **CLUTCH TECHNOLOGY**
- ✓ **NON-HANDED, REVERSIBLE**
- ✓ **2 YEAR WARRANTY**



BLEGW-99 (optional) Internet to Bluetooth signal converter (BRIDGE)



9V EMERGENCY BATTERY PORT



RFID CARD

## SPECIFICATIONS

### APPLICATIONS

For residential and standard duty commercial applications.

### DOOR RANGES

1 3/8" to 1 3/4" thickness.

### BACKSET

2 3/8" Standard, optional 2 3/4"

### LATCH FACEPLATE

Standard 2 1/4" x 1" for 2 3/8" backset.  
Optional 2 1/4" x 1 1/8" for 2 3/4" backset.

### PROXIMITY CARD (STANDARD)

2 pcs. included. Compatible with existing MIFARE infrastructure. Operates at 13.56 MHz in accordance with ISO 14443A. Inductive distance up to 1 3/16".

### RFID KEY FOB (OPTIONAL)

Operates at 13.56 MHz in accordance with ISO 14443A. Inductive distance up to 1 3/16".

### POWER SUPPLY

4 AA 1.5V Alkaline Batteries (comes standard in packing).

### BLE GATEWAY CONNECTIVITY

Optional BLE Gateway connectivity for remote lock management.

### CLUTCH

Clutch technology allows turning of lever without retracting latch. Thus prolonging the life of the lock by reducing stress on the spindle and other parts.

### CYLINDER & KEYWAYS

5 pin solid brass "C" keyway standard. Schlage E, Schlage C-K, Russwin D1-2-3-4, Corbin 59 /60, Corbin-Russwin L4, Sargent LA-LB-LC, Falcon / Weiser E, Arrow A, Yale 8, Yale GA and Kwikset. Can also accept Medeco, Assa, Kaba and Cal-Royal (HSK) High Security Cylinders.

### WEATHER RESISTANT

All models are weather resistant for operating temperature ranges of +149°F to -4°F (+65°C to -20°C) and storage temperature ranges of +176°F to -22°F (+80°C to -30°C).

### BLUETOOTH CONNECTIVITY

Lock can be managed / synced using the K3 (Apple) and K3+ (Android) app.

### ACCESS LOG (AUDIT TRAIL)

The K3 app features a 24 / 7 activity log, so you can keep track of who accessed the lock. A timestamped access log can be shared by the Admin phone via email. 10,000 audit trail entries.

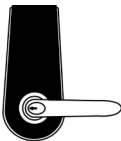
### STRIKES

Full lip strike standard. ASA strike available on request.

FINISHES AVAILABLE		
BHMA SYMBOL	US CODE	DESCRIPTION
605	US3	Polished Brass
613	US10B	Oil Rubbed Bronze
619	US15	Satin Nickel
626	US26D	Satin Chrome

Refer to price list for stock finishes and functions

## RS2100



## FUNCTIONS

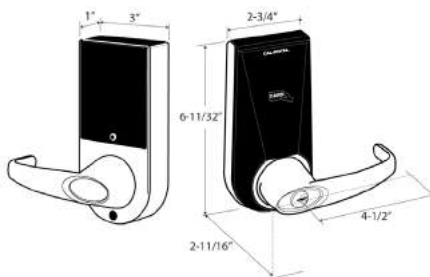
Latch bolt operated by lever from either side, except outside has to use a pre-programmed RFID card or a registered smart phone to touch the face of the face lock in order to retract the latch upon turning the lever. Key overrides the use of the RFID card and smartphone.



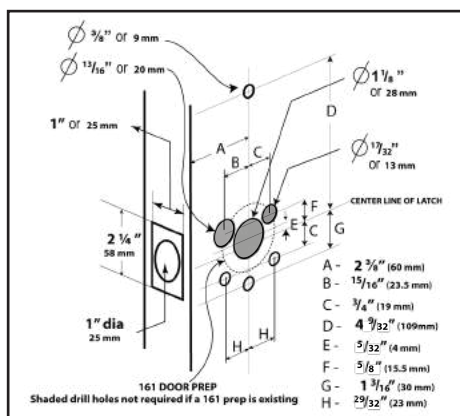
## FEATURES

- **Apple and Android Compatible** – iPhone 4S or above with iOS 8.0 and above. Android 4.3 or above with Bluetooth Low Energy capability.
- **Gateway Connectivity** – optional gateway device to connect compatible locks to the internet, so users can manage locks remotely.
- **Bluetooth Connectivity** – lock can be managed / synced using the K3 (Apple) and K3 (Android phones without NFC), and K3+ (Android phones with NFC) app.
- **NFC (Near Field Communication) Interface** – NFC compatible for android phones. For the complete list of phones, please go to link: [www.nfcworld.com/nfc-phones-list/#available](http://www.nfcworld.com/nfc-phones-list/#available)
- **Admin Phone** – a lock can only have one Administrator phone at a time. Only smartphones are used as Administrator. One admin phone can manage up to 250 locks.
- **Access Log (Audit Trail)** – the K3 app features a 24 / 7 activity log, so you can keep track of who accessed the lock. A timestamped access log can be shared by the Admin phone via email. 10,000 audit trail entries.
- **Passage Mode** – once enabled by the Admin, the unit is unlocked continuously until "Disable Passage Mode" is initiated.
- **Tones and LED Indicators** – indicates the operating status of the lock accompanied by the corresponding tones / beeps.
- **Restricted Access Right** – RS2100 can be programmed to specify the access period or intervals of users.
- **Keypad Anti-Tamper Lockout** – if an invalid code is entered 3 times consecutively, the unit will alarm 10 beeps and stay idle for 1 minute.
- **RFID Card (Standard)** – compatible with existing MIFARE infrastructure. Operates at 13.56 MHz in accordance with ISO 14443A. Inductive distance up to 1 3/16".
- **RFID KEY FOB (Optional)** – compatible with existing MIFARE infrastructure. Operates at 13.56 MHz in accordance with ISO 14443A. Inductive distance up to 1 3/16".
- **Weather Resistant** - the RS2100 is designed to ensure that internal electronic parts are protected from moisture, dust, water and corrosion. All models are weather resistant with operating temperature of +149°F to -4°F (+65°C to -20°C) and storage temperature of +176°F to -22°F (+80°C to -30°C)
- **Low Battery Warning** – when voltage is lower than safety power, RS2100 gives beep sound warning after unlocking the device.
- **Clutch Technology** – the outside lever of the RS2100 is a free-wheeling lever. If no valid code is entered, the lever will just turn freely without moving any parts inside. Thus, preventing breaking or tampering.
- **Non- Handed** – RS2100 is reversible for left and right hand openings.

TECHNICAL SPECS	
Operating Voltage	4x AA 1.5V Alkaline
Operating Temperature	+149°F to -4°F (+65°C to -20°C)
Storage Temperature	+176°F to -22°F (+80°C to -30°C)
Operating Humidity	5% to 95% relative humidity; non-condensing
Transmit Frequency	13.56 MHz
User ID Capacity	1 Admin + 49 Client Phones + 50 Digital Touch screen Combinations + 50 (Cards / Key Fobs)



## DOOR PREPARATION



# CR9000

## COMMERCIAL, GRADE 2 DIGITAL TOUCH SCREEN DOOR LOCK WITH CLUTCH TECHNOLOGY

Optional Interchangeable Core for Best, Falcon and Arrow



### FEATURES

- MASTER CODE
- USER PIN CODE UP TO 50 CODES, 4 - 6 DIGITS
- ONE-TIME USER PIN CODE UP TO 2 DIFFERENT CODES, 4 - 6 DIGITS
- NON-HANDED, FIELD REVERSIBLE LEVERS
- UL / cUL LISTED UP TO 20-MINUTE RATING
- CONFORMED TO ADA REQUIREMENT FOR BARRIER-FREE ACCESSIBILITY
- ENABLES LOCK-OUT MODE
- ENABLES PASSAGE MODE
- STAND-ALONE TOUCHSCREEN FEATURE
- TOUCH TO WAKE-UP
- LOW BATTERY INDICATOR
- AUTO RE-LOCK TIME
- SOUND ON / OFF
- 2 YEAR WARRANTY



Optional Lever Designs are Available in Non-IC Core Locks Only  
Prefix **Lever Design** before **PART#** when ordering.  
Example: To order **MAN Design in US26D**, Use **"MAN9000 US26D"**

### SPECIFICATIONS

#### APPLICATIONS

For offices, schools, hospitals, apartments, condo units, hotel / motel, residential, commercial and public buildings.

#### DOOR THICKNESS

1 3/8" (35mm) ~ 1 3/4" (45mm) standard.

#### BACKSET

2 3/4" (70mm) standard or 2 3/8" (60mm) optional backset

#### LATCH FACEPLATE

1 1/8" x 2 1/4" (28mm x 57mm) square corner, beveled, for 2 3/4" (70mm) backset standard

1" x 2 1/4" (25mm x 57mm) square corner, beveled, for 2 3/8" (60mm) backset optional

#### STRIKES

ANSI Curved lip strike 1 1/4" x 4 7/8" x 1 3/16" (32mm x 124mm x 30mm) lip to center standard. Optional ("T", "Full-lip") strikes available on request, lip lengths and strike box available.

#### ANSI STANDARDS

Meets ANSI / BHMA A156.2 Series 4000, Grade 2 strength and operational requirements.

#### LATCH BOLT

1/2" (13mm) throw solid brass, deadlocking on keyed and non-keyed function.

#### CYLINDER

6-pin solid brass "Schlage C" keyway standard with two brass keys per lock.

#### LEVER MECHANISM

Free wheeling lever mechanism. When the outside lever is locked, it will rotate freely up and down while remaining securely locked.

#### INTERCHANGEABLE CORE (IC)

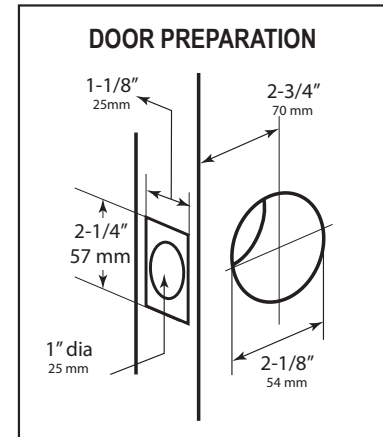
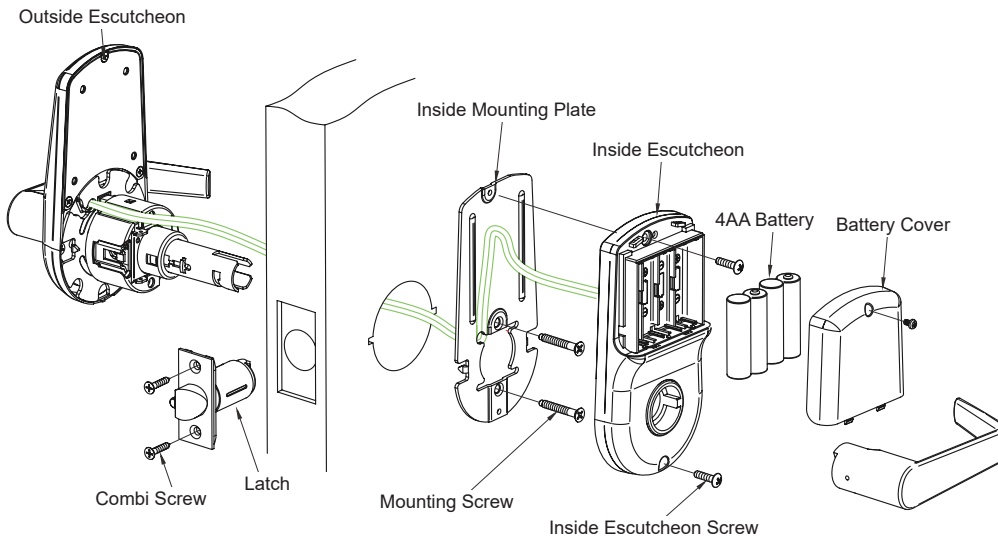
SFIC Interchangeable Core security cylinder. Compatible 6 or 7 pin cores with Best and Master. Prefix "IC" before part number.

#### POWER SOURCE

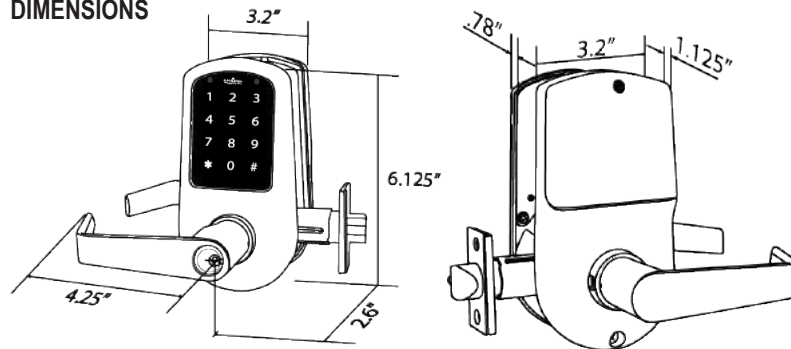
Powered by 4 AA Alkaline batteries.

#### WEATHER RESISTANT

All models are weather resistant for temperature ranges of -30°F ~ 150°F (-35°C ~ +66°C) at 85% relative humidity.



## DIMENSIONS

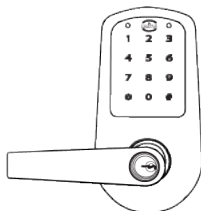


FINISHES AVAILABLE		
BHMA SYMBOL	US CODE	DESCRIPTION
626	US26D	Satin Chrome
613	US10B	Oil Rubbed Bronze
605	US3	Polished Brass
606	US4	Satin Brass
625	US26	Bright Chrome

Refer to Price List for stock finishes & functions

## FUNCTIONS

### CR9000



Latch bolt operated by lever from either side. Outside would need to enter pre-programmed code on the touch screen in order to retract the latch upon turning lever. Key overrides the use of the touch screen.

### ICCR9000



Latch bolt operated by lever from either side. Outside would need to enter pre-programmed code on the touch screen in order to retract the latch upon turning lever. Key overrides the use of the touch screen. Available with Interchangeable Core.

## FEATURES

### Stand-alone Touchscreen

Responds to human touch enabling convenient entrance or access to programming menu. After operation has been completed, the lock reverts back to sleep mode.

### Master PIN Code

Use for programming the lock and entering Master and User PIN codes. Can also be used to open the lock and reset to factory settings. (6 digits)

### User PIN Code

This feature only opens the lock by entering the code on the touch pad. It won't be able to program or change the settings. This lock can accommodate up to 50 user codes, 4 to 6 digits combined RFID and User PIN codes.

### One-Time User PIN Code

Can only be used once. This lock can store up to 2 one-time User PIN code simultaneously.

### Auto Re-lock Time

After successful code entry and unit unlock, it will automatically re-lock in default for five (5) seconds. It can be change by Master PIN code.

### Passage Mode

Enabling passage mode allows continuous entry for non-restricted traffic. Passage mode can either be enabled or disabled by the Master Pin code. When in passage mode, the green LED light is blinking.

### Lock-Out Mode

This feature can be enabled by Master PIN Code. When enabled, it restricts all User PIN codes access except Master PIN code.

### Low Battery Indicator

The blinking action signals internal 4 AA alkaline batteries are low.

### Weather Resistant

CR9000 are manufactured making sure that internal electronic parts are protected from moisture, dust water and corrosion. All models are weather resistant for temperature ranges of -30° F ~ 150° F (-35° C ~ +66° C) at 85% relative humidity.

### Touch to Wake-up

Touching the screen activates the touchscreen. Enter the PIN code while the number pad is illuminated.



# DB5000

**GRADE 2 ELECTRONIC DEADBOLT  
COMPATIBLE WITH APPLE AND ANDROID PHONES**



- **APPLE AND ANDROID COMPATIBLE**
- **BLE (BLUETOOTH LOW ENERGY) MANAGEMENT**
- **OPTIONAL GATEWAY CONNECTIVITY (REMOTE MANAGEMENT THROUGH THE INTERNET)**
- **TIMESTAMPED ACCESS LOG (AUDIT TRAIL)**
- 1 ADMIN PHONE PER DEADBOLT
- 49 CLIENT PHONES PER DEADBOLT
- 10,000 AUDIT TRAIL ENTRIES
- INDIVIDUAL USER ACCESS MODE
- OPTIONAL AUTO RE-LOCKING
- DOOR JAM PROTECTOR
- SMART L / R HANDING LEARNING
- KEY / THUMB-TURN TURNING DETECTOR
- ONE ADMIN PHONE CAN MANAGE UP TO 250 DEADBOLTS
- WEATHER RESISTANT
- ANTI-TAMPER LOCKOUT
- LOW BATTERY WARNING
- EASY INSTALLATION & PROGRAMMING
- 1 YEAR ELECTRONIC WARRANTY



EXTERIOR



INTERIOR



**BLEGW-99 (optional)**  
Internet to Bluetooth signal  
converter (BRIDGE)

## SPECIFICATIONS

### APPLICATIONS

For residential and standard duty commercial applications.

### DOOR RANGES

1 3/8" to 1 3/4" thickness

### BACKSET

Adjustable 2 3/8" (60mm) or 2 3/4" (70mm)

### LATCH FACEPLATE

2 1/4" x 1"

### STRIKES

Deadbolt strike 1 1/8" x 2 3/4". Optional strikes available.

### POWER SUPPLY

4 AA 1.5V Alkaline Batteries (comes standard in packing).

### RADIO FREQUENCY

Bluetooth radio frequency: 2.4 GHz

### OPTIONAL GATEWAY CONNECTIVITY

Optional BLE Gateway connectivity for remote lock management.

### CYLINDER & KEYWAYS

6 pin solid brass "C" keyway standard. Schlage E, Schlage C-K, Russwin D1-2-3-4, Corbin 59 / 60, Corbin-Russwin L4, Sargent LA-LB-LC, Falcon / Weiser E, Arrow A, Yale 8, Yale GA and Kwikset. Can also accept Medeco, Assa, Kaba and Cal-Royal (HSK) High Security Cylinders.

### WEATHER RESISTANT

All models are weather resistant for operating temperature ranges of +149°F to -4°F (+65°C to -20°C) and storage temperature ranges of +176°F to -22°F (+80°C to -30°C).

### BLUETOOTH CONNECTIVITY

Lock can be managed / synced using the K3 (Apple) and K3+ (Android) app.

### ACCESS LOG (AUDIT TRAIL)

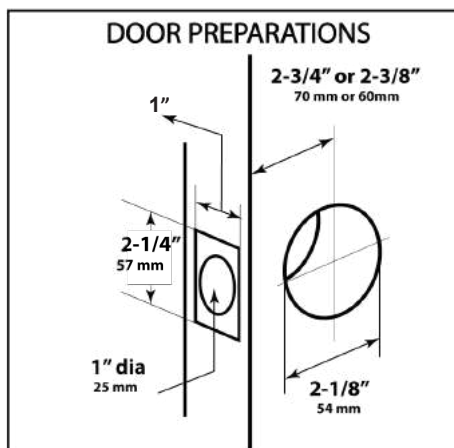
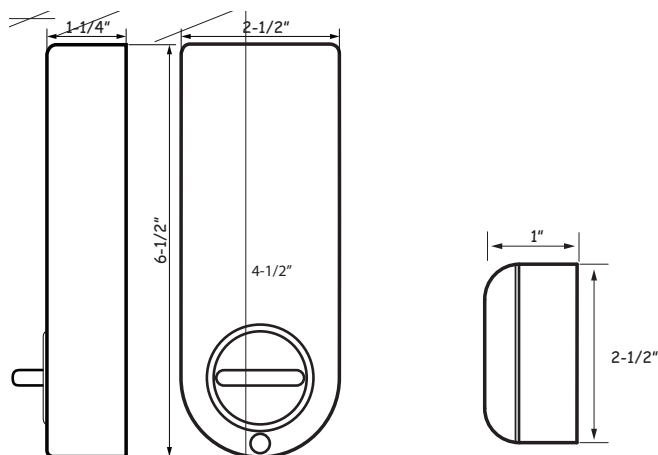
The K3 app features a 24 / 7 activity log, so you can keep track which client accessed the lock. A time stamped access log can be shared by the Admin phone via email. 10,000 audit trail entries.

## FEATURES

FINISHES AVAILABLE		
BHMA SYMBOL	US CODE	DESCRIPTION
626	US26D	Satin Chrome
619	US15	Satin Nickel
613	US10B	Oil Rubbed Bronze
605	US3	Polished Brass

Refer to price list for stock finishes and functions

TECHNICAL SPECS	
Operating Voltage	4x AA 1.5V Alkaline
Operating Temperature	+149°F to -4°F (+65°C to -20°C)
Storage Temperature	+176°F to -22°F (+80°C to -30°C)
User ID Capacity	1 Admin + 49 Client Phones



- **Apple and Android Compatible** – iPhone 4S or above with iOS 8.0 and above. Android 4.3 or above with Bluetooth Low Energy capability.
- **Gateway Connectivity** – optional gateway device to connect compatible locks to the internet, so users can manage locks remotely.
- **Bluetooth Connectivity** – lock can be managed / synced using the K3 (Apple) and K3 (Android phones without NFC) and K3+ (Android phones with NFC) app.
- **Admin Phone** – a lock can only have one Administrator Phone at a time. Only smartphones are used as an Administrator. One admin phone can manage up to 250 deadbolts.
- **Access Log (Audit Trail)** – the K3 app features a 24 / 7 activity log, so you can keep track of who accessed the lock. A timestamped access log can be shared by the Admin phone via email. 10,000 audit trail entries.
- **Optional Auto Re-locking** – Admin has the option to set time for deadbolt to automatically re-lock, from 10-250 seconds.
- **Passage Mode** – disable auto re-locking feature.
- **Restricted Access Right** – DB5000 can be programmed to specify the access period or intervals of users
- **Weather Resistant** – the DB5000 is designed to ensure that the internal electronic parts are protected from moisture, dust, water and corrosion. All models are weather resistant with operating temperature of +149°F to -4°F (+65°C to -20°C) and storage temperature of +176°F to -22°F (+80°C to -30°C).
- **Low Battery Warning** – when voltage is lower than safety power, the deadbolt gives warning beeps after successfully unlocking the device.
- **Smart L / R Learning** – DB5000 can test and learn the handing of the door.
- **Door Jam Protector** – if the bolt fails to retract or project, due to any obstacles (e.g. door frame is not aligned with the door), DB will detect it and will stop turning the motor after a few tries. This is to prevent it from over-heating which could cause permanent damage to the circuit boards.
- **Key / Thumb-turn Turning Detector** – when operating the deadbolt by mechanical ways such as using keys or turning the thumb-turn, DB will detect it and include it in the access log.



# DB9000

**GRADE 2 ELECTRONIC TOUCHSCREEN DEADBOLT  
COMPATIBLE WITH APPLE AND ANDROID PHONES**



- **APPLE AND ANDROID COMPATIBLE**
- **BLE (BLUETOOTH LOW ENERGY) MANAGEMENT**
- **OPTIONAL GATEWAY CONNECTIVITY  
(REMOTE MANAGEMENT THROUGH THE INTERNET)**
- **PROXIMITY RFID CARD (13.56 MHz) STANDARD**
- **DIGITAL TOUCHSCREEN**
- **TIMESTAMPED ACCESS LOG (AUDIT TRAIL)**
- 1 ADMIN PHONE, 49 CLIENT PHONES PER DEADBOLT
- 50 DIGITAL COMBINATIONS PER DEADBOLT
- 50 RFID CARDS / KEY FOBs PER DEADBOLT
- 10,000 AUDIT TRAIL ENTRIES
- 1 ADMIN PHONE CAN MANAGE UP TO 250 DEADBOLTS
- EMERGENCY KEY OVERRIDE
- RFID KEY FOB (OPTIONAL)
- INDIVIDUAL USER ACCESS MODE
- OPTIONAL AUTO RE-LOCKING
- DOOR JAM PROTECTOR
- SMART L / R HANDING LEARNING
- KEY / THUMB-TURN TURNING DETECTOR
- ONE-TAP LOCKING
- WEATHER RESISTANT
- BUZZER & LED INDICATORS
- ANTI-TAMPER LOCKOUT
- LOW BATTERY WARNING
- EMERGENCY CHARGE INTERFACE
- 1 YEAR ELECTRONIC WARRANTY



## SPECIFICATIONS

### APPLICATIONS

For residential and standard duty commercial applications.

### DOOR RANGES

1 3/8" to 1 3/4" thickness

### BACKSET

Adjustable 2 3/8" (60mm) or 2 3/4" (70mm)

### LATCH FACEPLATE

2 1/4" x 1".

### PROXIMITY CARD (STANDARD)

2pcs. included. Compatible with existing MIFARE Infrastructure. Operates at 13.56 MHz in accordance with ISO 14443A. Inductive distance up to 1 3/16".

### RFID KEY FOB (OPTIONAL)

Operates at 13.56 MHz in accordance with ISO 14443A. Inductive distance up to 1 3/16".

### POWER SUPPLY

4 AA 1.5V Alkaline Batteries (comes standard in packing).

### RADIO FREQUENCY

Bluetooth radio frequency: 2.4 GHz

### CYLINDER & KEYWAYS

6 pin solid brass "C" keyway standard. Schlage E, Schlage C-K, Russwin D1-2-3-4, Corbin 59 / 60, Corbin-Russwin L4, Sargent LA-LB-LC, Falcon / Weiser E, Arrow A, Yale 8, Yale GA and Kwikset. Can also accept Medeco, Assa, Kaba and Cal-Royal (HSK) High Security Cylinders.

### WEATHER RESISTANT

All models are weather resistant for operating temperature ranges of +158°F to -4°F (+70°C to -20°C) and storage temperature ranges of +176°F to -22°F (+80°C to -30°C).

### BLUETOOTH CONNECTIVITY

Lock can be managed / synced using the K3 (Apple) and K3+ (Android) app.

### ACCESS LOG (AUDIT TRAIL)

The K3 app features a 24 / 7 activity log, so you can keep track which client accessed the lock. A timestamped access log can be shared by the Admin phone via email. 10,000 audit trail entries.

### STRIKE

Deadbolt strike 1 1/8" x 2 3/4". Optional strikes available.

### OPTIONAL GATEWAY CONNECTIVITY

Optional BLE Gateway connectivity for remote lock management.



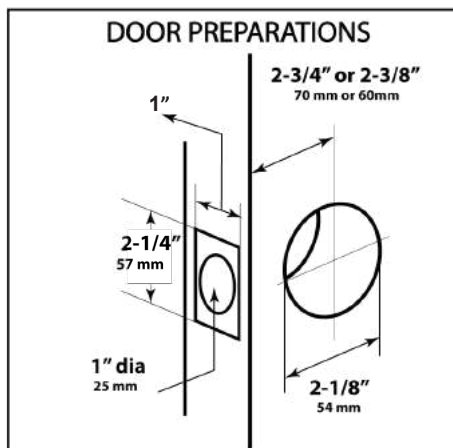
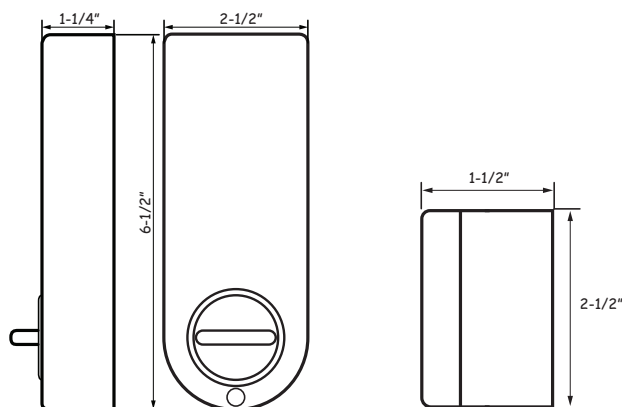
## FINISHES AVAILABLE

BHMA SYMBOL	US CODE	DESCRIPTION
626	US26D	Satin Chrome
619	US15	Satin Nickel
613	US10B	Oil Rubbed Bronze
605	US3	Polished Brass

Refer to price list for stock finishes and functions

## TECHNICAL SPECS

Operating Voltage	4 x AA 1.5V Alkaline
Operating Temperature	+149°F to -4°F (+65°C to -20°C)
Storage Temperature	+176°F to -22°F (+80°C to -30°C)
Transmit Frequency	13.56 MHz
User ID Capacity	1 Admin + 49 Client Phones + 50 Digital Touchscreen Combinations + 50 (Cards / Key Fobs)



## FEATURES

- **Apple and Android Compatible** – iPhone 4S or above with iOS 8.0 and above. Android 4.3 or above with Bluetooth Low Energy capability.
- **Gateway Connectivity** – optional gateway device to connect compatible locks to the internet, so users can manage locks remotely.
- **Bluetooth Connectivity** – lock can be managed / synced using the K3 (Apple) and K3 (Android phones without NFC), and K3+ (Android phones with NFC) app.
- **NFC (Near Field Communication) Interface** – NFC compatible for android phones. For the complete list of phones, please go to link: [www.nfcworld.com/nfc-phones-list/#available](http://www.nfcworld.com/nfc-phones-list/#available)
- **Admin Phone** – a lock can only have one Administrator phone at a time. Only smartphones are used as Administrator. One admin phone can manage up to 250 deadbolts.
- **Access Log (Audit Trail)** - the K3 app features a 24 / 7 activity log, so you can keep track of who accessed the lock. A timestamped access log can be shared by the Admin phone via email. 10,000 audit trail entries.
- **Smart L / R Handing Learning** – DB9000 can be installed on a left handed or right handed door. The deadbolt can automatically learn the handing of the door when this feature is set up.
- **Key / Thumb-turn Turning Detector** – when operating DB9000 mechanically (key override) or manually (turning the thumb-turn from the inside), the deadbolt detects it and the event will be registered in the access log.
- **Door Jam Protector** – if the bolt fails to retract or project, due to any obstacles (e.g. door frame is not aligned with the door), the deadbolt will detect it and will stop turning the motor after a few tries. This feature is to prevent it from over-heating which could cause permanent damage to the circuit boards.
- **Optional Auto Re-locking** – Admin has the option to set time for deadbolt to automatically re-lock, from 10-250 seconds.
- **Passage Mode** – disable auto re-locking feature for passage mode.
- **Tones and LED Indicators** – indicates the operating status of the lock accompanied by the corresponding tones / beeps.
- **Restricted Access Right** – DB9000 can be programmed to specify the access period or intervals of users.
- **Keypad Anti-Tamper Lockout** – if an invalid code is entered 3 times consecutively, the unit will alarm 10 beeps and stay idle for 1 minute.
- **Remote Switch / Release** – DB9000 provides 2 remote switches. Either can be used for an emergency push button switch, or can be connected to alarm systems IE fire alarms.
- **RFID Card (Standard)** – compatible with existing MIFARE infrastructure. Operates at 13.56 MHz in accordance with ISO 14443A. Inductive distance up to 1 3/16".
- **RFID KEY FOB (Optional)** – compatible with existing MIFARE infrastructure. Operates at 13.56 MHz in accordance with ISO 14443A. Inductive distance up to 1 3/16".
- **Weather Resistant** – the DB9000 is designed to ensure that the internal electronic parts are protected from moisture, dust, water and corrosion. All models are weather resistant with operating temperature of +149°F to -4°F (+65°C to -20°C) and storage temperature of +176°F to -22°F (+80°C to -30°C).
- **Low Battery Warning** – when voltage is lower than safety power, DB9000 gives beep sound warning after unlocking the device.
- **Clutch Technology** – the outside lever of the DB9000 is a free-wheeling lever. If no valid code is entered, the lever will just turn freely without moving any parts inside. Thus preventing breaking or tampering.



# ZWDB-10

**TOUCH SCREEN ELECTRONIC DEADBOLT,  
MEETS ANSI GRADE 3 STANDARDS**



- BUILT-IN Z-WAVE TECHNOLOGY TO CONNECT TO A Z-WAVE COMPATIBLE CONTROLLER WITH GATEWAY FREQUENCY OF 908.4 MHz
- ELECTRONIC LOCK WITH KEYLESS ACCESS
- 1 ADMINISTRATOR CODE, 4-10 DIGITS
- 30 SETS OF USER CODE, 4-10 DIGITS
- DIGITAL TOUCH SCREEN
- RANDOM PRE-ENTRY CODE TO PREVENT CODE DECIPHERING
- SERVICE CODE FOR TEMPORARY ACCESS
- ADD / DELETE USER'S CODE INDIVIDUALLY
- AUTO-LOCKING FUNCTION
- FITS REGULAR DOOR PREPARATION
- POWER EFFICIENT DESIGN AND LOW BATTERY ALARM
- 1 YEAR ELECTRONIC WARRANTY
- EMERGENCY KEY OVERRIDE
- USER FRIENDLY DESIGN
- EASY INSTALLATION & PROGRAMMING
- NON-HANDED



**DIGITAL  
TOUCH SCREEN**



**INTERIOR**

## SPECIFICATIONS

### APPLICATIONS

For Residential and Standard Duty Commercial Applications

### DOOR RANGES

1 <sup>3</sup>/<sub>8</sub>" (35mm) to 1 <sup>3</sup>/<sub>4</sub>" (45mm) Thickness

### MATERIAL

Zinc Alloy and Steel

### BACKSET

2 <sup>3</sup>/<sub>8</sub>" (60mm) or 2 <sup>3</sup>/<sub>4</sub>" (70mm) 2-Way Adjustable Backset

### LATCH FACEPLATE

1" (25.4mm) x 2 <sup>1</sup>/<sub>4</sub>" (57mm) Square Corner

### STRIKE

1" (25.4mm) x 2 <sup>1</sup>/<sub>4</sub>" (57mm) Square Corner Strike

### DEADBOLT

1" Throw High-Strength Deadbolt with Anti-Saw Pin

### POWER SUPPLY

4 AA 1.5V Alkaline Batteries (comes standard in packing)

### DOOR PREPARATION

1" (25.4mm) Diameter for Edge Bore

2 <sup>1</sup>/<sub>8</sub>" (54mm) Cross Bore

### DIMENSIONS

Exterior Trim: 5 <sup>1</sup>/<sub>4</sub>" (133mm) x 2 <sup>5</sup>/<sub>8</sub>" (67mm) x <sup>11</sup>/<sub>16</sub>" (23mm)

Interior Trim: 7 <sup>7</sup>/<sub>16</sub>" (189mm) x 2 <sup>7</sup>/<sub>8</sub>" (73mm) x 1 <sup>1</sup>/<sub>8</sub>" (28mm)

### CYLINDER & KEYWAYS

5-Pin, Kwikset KW1 Keyway.

### FINISHES

US3 - Bright Brass

US15 - Satin Nickel

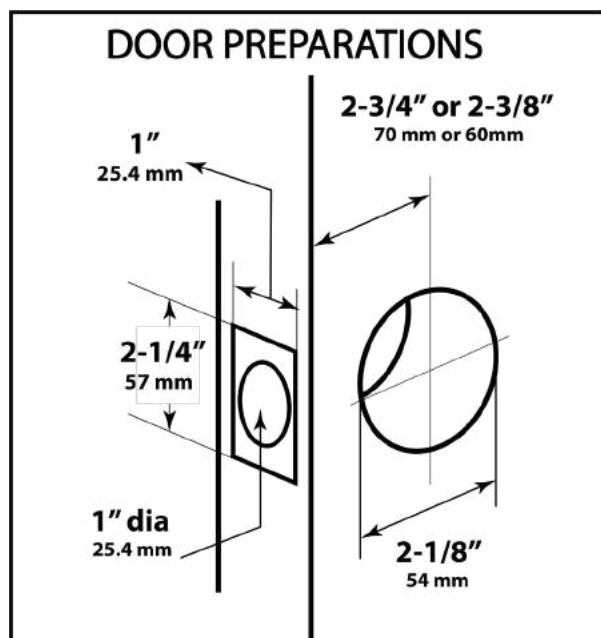
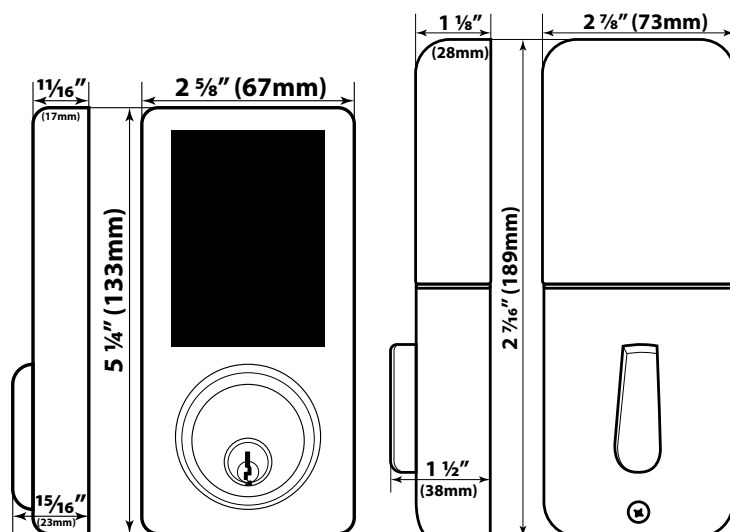
US26 - Bright Chrome

US26D - Satin Chrome

US12P - Tuscany Bronze

FINISHES AVAILABLE		
BHMA SYMBOL	US CODE	DESCRIPTION
605	US3	Bright Brass
619	US15	Satin Nickel
625	US26	Bright Chrome
626	US26D	Satin Chrome
---	US12P	Tuscany Bronze

Refer to price list for stock finishes and functions



### FEATURES

- **Administrator Code** – 1 group administrator password, 4-10 digits. It is used for managing all codes. Add / delete user's code individually.
- **User Codes** – this feature only opens the lock by entering the code on the touchpad. It can accommodate up to 30 sets of passcode, 4-10 digits.
- **Pre-Entry Codes** – random pre-entry code prevents deciphering of user code. It is also useful to remove remaining fingerprint smudges and prevent exposure of password.
- **Disposable Code** – one-time user code is available for temporary access.
- **Touch screen panel** – this feature helps ease of operating in the dark. It is useful in making sure that every key pressed is successfully entered by an accompanying beep / tone.
- **Auto-Locking Function** – when the door is unlocked, it automatically locks within just a few seconds for security and convenience.
- **Low Battery Warning** – when voltage is lower than safety power, the low battery indicator will turn on until the low battery alarm goes off, then you have to change the batteries.
- **User Friendly Design** – simplifies your access management.
- **Z-Wave Technology** – it has a built-in 500 Series Z-WAVE module to connect with compatible controller / hub with gateway frequency of 908.4 MHz. By using an existing controller, you could use app and / or mobile phone to manage all compatible devices such as control lights, security systems, and home automation in one tap.
- **High-Strength Deadbolt** – 1" throw high-strength deadbolt with anti-saw pin.
- **Deadbolt Detection** – touchpad deadbolt with auto latch bolt locking detection prevents any incomplete door locking.
- **Non-Handed** – ZWDB-10 Series can be installed for both left and right door opening.

TECHNICAL SPECS	
Operating Voltage	DC6V, 4x AA (1.5V, LR6) Alkaline
Operating Temperature	0°C to 70°C (Battery Excluded)
Operating Humidity	30% to 90% Relative Humidity; Non-Condensing
User ID Capacity	4-10 Digits 1 Admin Password 30 Sets of User Code

# NM300 Series

## ELECTRIFIED MORTISE LOCKS

Available with or without deadbolt

### FEATURES:

- UL and CUL Listings
- Continuous duty solenoids for cooler operation during “continuously on” applications
- Low current draw
- Numerous switch options
- 3 year “No Hassle” warranty

### OPTIONS:

- Voltage requirement -12V DC or 24V DC
- Amperage - 300mA @ 12V or 130mA @ 24V
- Solenoid coil resistance - 12V = 39.4 Ω or 24V = 173 Ω
- Power consumption - 3.65W @ 12V or 3.3W @ 24V
- Function – available Fail Safe, “Electrically Locked” (EL) or Fail Secure, “Electrically Unlocked” (EU)

- **RX** – Request to Exit Switch (Monitors the inside handle)
- **LBM** – Latch Bolt Monitoring Switch (Monitors the position of latch bolt)
- **DPS** – Door Position Switch (\*Sold Separately. Not installed on the lock.)

### HOW TO ORDER ELECTRIFIED NM300 SERIES

- Use **NM Models** if ordered as an **ELECTRIFIED LOCK CASE ONLY**.
- Use **ENM Models** if ordered as a complete lock with **ADD-ON list price**.  
Must Specify: NM Series item # and Electrification Option  
( refer to table below ) separately.  
For Example: NM8080SSRH US26D with ENM300 ( EL 12V ) option,  
**Order: NM8080SSRH US26D and ENM300-RH as two line items.**

► **HANDING: Non-Reversible. Must specify Left Hand (LH) or Right Hand (RH) when ordering.**

**REFER TO PRICELIST  
FOR STOCK FINISHES AND FUNCTIONS**

ELECTRIFICATION OPTIONS ( WITHOUT DEADBOLT )						
MODEL #	EL	EU	12	24	RX	LBM
ENM300	✓		✓			
ENM301	✓		✓		✓	
ENM302	✓		✓			✓
ENM303	✓		✓		✓	✓
ENM304	✓			✓		
ENM305	✓			✓	✓	
ENM306	✓			✓		✓
ENM307	✓			✓	✓	✓
ENM308		✓	✓			
ENM309		✓	✓		✓	
ENM310		✓	✓			✓
ENM311		✓	✓		✓	✓
ENM312		✓		✓		
ENM313		✓		✓	✓	
ENM314		✓		✓		✓
ENM315		✓		✓	✓	✓

ELECTRIFIED LOCK CASE ONLY	
MODEL #	
NM300	
NM301	
NM302	
NM303	
NM304	
NM305	
NM306	
NM307	
NM308	
NM309	
NM310	
NM311	
NM312	
NM313	
NM314	
NM315	

ELECTRIFICATION OPTIONS ( WITH DEADBOLT )						
MODEL #	EL	EU	12	24	RX	LBM
ENM316	✓		✓			
ENM317	✓		✓		✓	
ENM318	✓		✓			✓
ENM319	✓		✓		✓	✓
ENM320	✓			✓		
ENM321	✓			✓	✓	
ENM322	✓			✓		✓
ENM323	✓			✓	✓	✓
ENM324		✓	✓			
ENM325		✓	✓		✓	
ENM326		✓	✓			✓
ENM327		✓	✓		✓	✓
ENM328		✓		✓		
ENM329		✓		✓	✓	
ENM330		✓		✓		✓
ENM331		✓		✓	✓	✓

ELECTRIFIED LOCK CASE ONLY	
MODEL #	
NM316	
NM317	
NM318	
NM319	
NM320	
NM321	
NM322	
NM323	
NM324	
NM325	
NM326	
NM327	
NM328	
NM329	
NM330	
NM331	

► **Electrified Mortise Lock Case can be purchased separately. Refer to table above for options**

# SC400 Series

## ELECTRIFIED MORTISE LOCKS

Available with or without deadbolt

### FEATURES:

- UL and CUL Listings
- Continuous duty solenoids for cooler operation during “continuously on” applications
- Allows for an AC or DC power source through an appropriate power supply. No polarity.
- Low current draw
- Numerous switch options
- 3 year “No Hassle” warranty

### OPTIONS:

- Voltage requirement -12V AC / DC or 24V AC / DC
- Amperage - 600mA ±10% @ 12V or 300mA ±10% @ 24V
- Solenoid coil resistance - 12V = 20 Ω ±5% or 24V = 80 Ω ±5%
- Power consumption - 7.2 watts ±10%
- Function – available Fail Safe, “Electrically Locked” (EL) or Fail Secure, “Electrically Unlocked” (EU)

**RETROFITS SCHLAGE L9000**  
( direct chassis replacement )

### HOW TO ORDER ELECTRIFIED SC400 SERIES

- Use **SC Models** if ordered as an **ELECTRIFIED LOCK CASE ONLY**.
- Use **ESC Models** if ordered as a complete lock with **ADD-ON list price**.  
Must Specify: SC Series item # and Electrification Option  
( refer to table below ) separately.  
For Example: SC8080SS US26D with ESC400 ( EL 12V ) option,  
**Order: SC8080SS US26D and ESC400 as two line items.**

- **RX** – Request to Exit Switch (Monitors the inside handle)
- **LBM** – Latch Bolt Monitoring Switch (Monitors the position of latch bolt)
- **DPS** – Door Position Switch  
(\*Sold Separately. Not installed on the lock.)

**REFER TO PRICELIST  
FOR STOCK FINISHES AND FUNCTIONS**

ELECTRIFICATION OPTIONS ( WITHOUT DEADBOLT )							ELECTRIFIED LOCK CASE ONLY
MODEL #	EL	EU	12	24	RX	LBM	MODEL #
ESC400	✓		✓				SC400
ESC400-RX	✓		✓		✓		SC400-RX
ESC400-LBM	✓		✓			✓	SC400-LBM
ESC400-RXLBM	✓		✓		✓	✓	SC400-RXLBM
ESC404	✓			✓			SC404
ESC404-RX	✓			✓	✓		SC404-RX
ESC404-LBM	✓			✓		✓	SC404-LBM
ESC404-RXLBM	✓			✓	✓	✓	SC404-RXLBM
ESC408		✓	✓				SC408
ESC408-RX		✓	✓		✓		SC408-RX
ESC408-LBM		✓	✓			✓	SC408-LBM
ESC408-RXLBM		✓	✓		✓	✓	SC408-RXLBM
ESC412		✓		✓			SC412
ESC412-RX		✓		✓	✓		SC412-RX
ESC412-LBM		✓		✓		✓	SC412-LBM
ESC412-RXLBM		✓		✓	✓	✓	SC412-RXLBM

ELECTRIFICATION OPTIONS ( WITH DEADBOLT )							ELECTRIFIED LOCK CASE ONLY
MODEL #	EL	EU	12	24	RX	LBM	MODEL #
ESC416	✓		✓				SC416
ESC416-RX	✓		✓		✓		SC416-RX
ESC416-LBM	✓		✓			✓	SC416-LBM
ESC416-RXLBM	✓		✓		✓	✓	SC416-RXLBM
ESC420	✓			✓			SC420
ESC420-RX	✓			✓	✓		SC420-RX
ESC420-LBM	✓			✓		✓	SC420-LBM
ESC420-RXLBM	✓			✓	✓	✓	SC420-RXLBM
ESC424		✓	✓				SC424
ESC424-RX		✓	✓		✓		SC424-RX
ESC424-LBM		✓	✓			✓	SC424-LBM
ESC424-RXLBM		✓	✓		✓	✓	SC424-RXLBM
ESC428		✓		✓			SC428
ESC428-RX		✓		✓	✓		SC428-RX
ESC428-LBM		✓		✓		✓	SC428-LBM
ESC428-RXLBM		✓		✓	✓	✓	SC428-RXLBM

► **Electrified Mortise Lock Case can be purchased separately. Refer to table above for options**



# GENESYS SERIES

## Electrified Cylindrical Lock

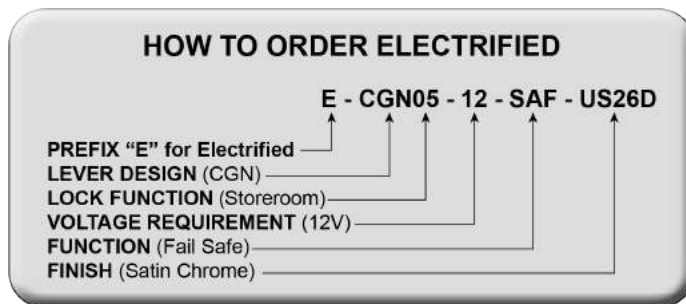
*Available on Storeroom Only*

### FEATURES:

- UL Listed
- Continuous duty solenoids for cooler operation during "continuously ON" applications
- Standard plug-in rectifier allows for an AC / DC power source
- Low current draw
- 3 year "No Hassle" warranty

### OPTIONS:

- Voltage requirement - 12V or 24V (AC / DC)
- Amperage - 250mA @ 12V or 150mA @ 24V
- Solenoid coil resistance - 12V = 49 Ω or 24V = 159 Ω
- Power consumption - 3 watts
- Function - available "Fail Safe" (**SAF**) or "Fail Secure" (**SEC**)



### TO ORDER:

- Prefix "E" before part #.
- Must specify the following when ordering:
  - lever design: CGN, CAT, CSPA, CTUB, CAUG, CDAN, CLON, or CTAC
  - lock function: 05 (Storeroom ONLY)
  - voltage: 12V or 24V
  - function: "**SAF**" (fail safe) or "**SEC**" (fail secure)
  - finish: see pricelist for stock finishes

Example: CGN05 US26D, 12V fail safe,

Order: "ECGN0512SAF US26D"



*Available on all Genesys Series lever designs*



**GN DESIGN**



**AT DESIGN**



**SPA DESIGN**



**TUB DESIGN**



**AUG DESIGN**



**DAN DESIGN**



**TAC DESIGN**

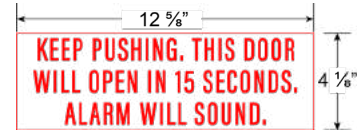
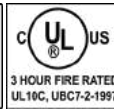


**LON DESIGN**

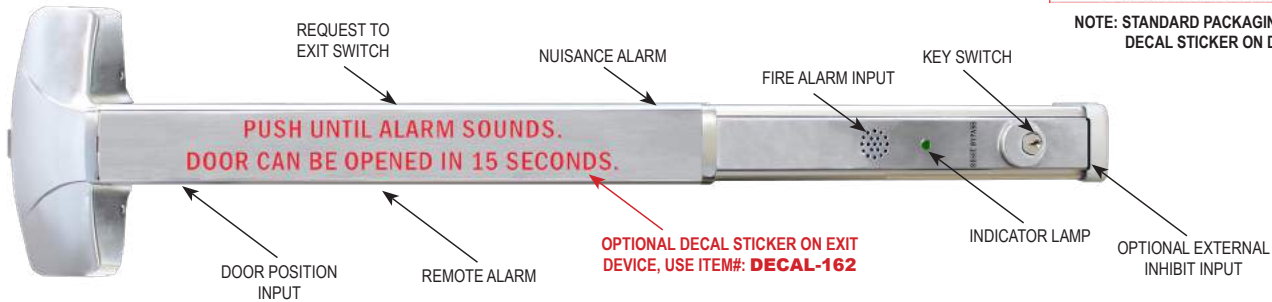
- ⦿ (IC) Indicates function available with **Best, Falcon, and Arrow** Interchangeable Core.
- ⦿ (ICSC) Indicates function available with **Schlage Full Size** Interchangeable Core.
- ⦿ (SARIC) Indicates function available with **Sargent Full Size** Interchangeable Core.
- ⦿ (RUSIC) Indicates function available with **Corbin / Russwin Full Size** Interchangeable Core.
- ⦿ (YALIC) Indicates function available with **Yale Full Size** Interchangeable Core.

**\*\*Note: YALE LFIC only available in GN, AT, SPA lever designs**

**GRADE 1 Delayed Egress All in One Exit Device**  
**ANSI BHMA A156.24 Delayed Egress Locking System Approved**



NOTE: STANDARD PACKAGING INCLUDES DECAL STICKER ON DOOR.



FEATURES		
EGRESS DELAY	BUILT-IN ANNUNCIATION	CODE COMPLIANCE
<ul style="list-style-type: none"> <li>All in One Device</li> <li>15 or 30 second exit delay (Factory set to 15 secs)</li> <li>1 or 2 second nuisance delay</li> <li>Alarm and Lock reset</li> <li>1 to 30 second momentary bypass</li> <li>Sustained bypass</li> </ul>	<ul style="list-style-type: none"> <li>Armed mode</li> <li>Nuisance mode</li> <li>Irreversible egress mode</li> <li>Release mode</li> <li><u>Optional External Inhibit Input</u></li> <li>Remote override</li> <li>Remote reset</li> </ul>	<ul style="list-style-type: none"> <li>IFC International Fire Code</li> <li>IBC International Building Code</li> <li>NFPA 101 Life Safety Code</li> <li>NFPA 1 Uniform Fire Code</li> <li>California Building Code</li> <li>Field selectable automatic or manual power up after emergency release or power loss</li> </ul>
CONTROL INPUTS	TRIGGER MODES	MONITORING OUTPUTS
<ul style="list-style-type: none"> <li>1 to 30 second request-to-exit and bypass input with anti-tailgate and jumper selectable door prop alarm</li> <li>Reset</li> </ul>	<ul style="list-style-type: none"> <li>Egress Alarm triggered by Push Bar</li> <li>Trigger input from external device field selectable (N/O or N/C)</li> </ul>	<ul style="list-style-type: none"> <li>Armed mode</li> <li>Nuisance mode</li> <li>Release status</li> </ul>

**MUST ORDER CR602RF or CR631RF POWER SUPPLY TO HONOR WARRANTY AND UL MARKING**

APPLICATION	
<p>When unauthorized egress is initiated the device delays egress through the door for 15 seconds (or 30 seconds). Meanwhile, the person exiting must wait while personnel or security responds. The door unlocks after 15 seconds have elapsed permitting egress. When powered by a fire control supervised power supply, the lock will release immediately in an emergency.</p>	<p><b>FOR USE WITH: (FIRE AND NON-FIRE)</b></p> <ul style="list-style-type: none"> <li>A7700, AF7700 Rim Exit Devices</li> <li>A7760V, AF7760V Surface Vertical Rod Exit Device<sup>1</sup></li> <li>MCVR7700, FMCVR7700 Concealed Vertical Rod (metal doors)</li> <li>WCVR7700, FWCVR7700 Concealed Vertical Rod (wood doors)</li> <li>MR7700, FMR7700 Mortise Lock Rim Exit Device</li> <li>GLS7700 Narrow Stile Rim Exit Device (on 36" Only)</li> <li>GLSCVR7700, FGLSCVR7700 Narrow Stile Concealed Vertical Rod (on 36" Only)</li> </ul> <p><sup>1</sup>Recommends use of rod and latch guards and strike monitor for surface vertical rods</p>

TECHNICAL SPECIFICATIONS	
<ul style="list-style-type: none"> <li>24V DC @ 430mA</li> <li>24V DC @ 250mA Slave</li> </ul> <p>Power Supply CR602RF 1 Amp / CR631RF 1.5 Amp</p>	<ul style="list-style-type: none"> <li>Field selectable 12 or 24V DC, regulated and filtered</li> <li>Auto resetting output circuit protection</li> <li>Isolated 13.5 / 27V DC battery charger</li> <li>Low battery disconnect</li> <li>Emergency release input</li> <li>Field selectable UBC &amp; California compliant manual power up</li> <li>Input, output and battery status LED's</li> <li>CR631RF - 16" x 14" x 6.5", CR602RF - 12" x 12" x 4" enclosure</li> <li>Choice of output and door control modules</li> <li>CR631RF - 1.5 Amp, CR602RF - 1.0 Amp</li> <li>Batteries not included</li> </ul>
<p><b>CR631RF</b></p>	<p><b>CR602RF</b></p>

# 7700 Series Delayed Egress Models

GRADE 1 Delayed Egress All in One Exit Device

ANSI / BHMA A156.24 Delayed Egress Locking System Approved

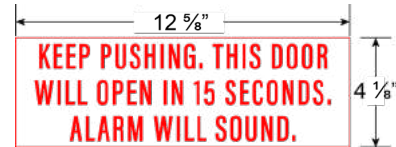
For use in institutions, schools, universities, commercial buildings where heavy duty reliable operation is a requirement. 7700 Series Delayed Egress can also be used for fire exit hardware for all types of 4' x 8' single doors and 8' x 8' double doors for up to 3 hour fire labeled installations, it conforms to standards UL10C and UBC 7-2-1997 codes.



**MEETS**  
*The Buy American Act*



**5-YEAR WARRANTY**



NOTE: STANDARD PACKAGING INCLUDES DECAL STICKER ON DOOR.



**A7700, AF7700 Rim Panic Exit Devices**



**A7760V, AF7760V Surface Vertical Rod Exit Devices**

To effectively use the surface vertical rod exit device, it is recommended that the rod and latch guards and monitor strike be used.



**GLS7700 Narrow Stile Rim Exit Devices (36" ONLY)**



\*Optional Decal sticker for the Exit Device, specify item# "DECAL-162" when ordering.



**MR7700, FMR7700 Mortise Exit Devices**

If a door position switch is not used, the outside trim will operate the door without affecting the armed setting of the device.



**MCV7700, FMCV7700 (metal doors)  
WCV7700, FWCV7700 (wood doors)  
Concealed Vertical Rod Exit Devices**

**GLSCV7700, FGLSCV7700 (36" ONLY)  
Narrow Stile Concealed Vertical Rod Exit Devices**

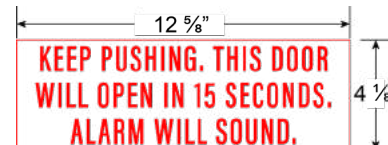
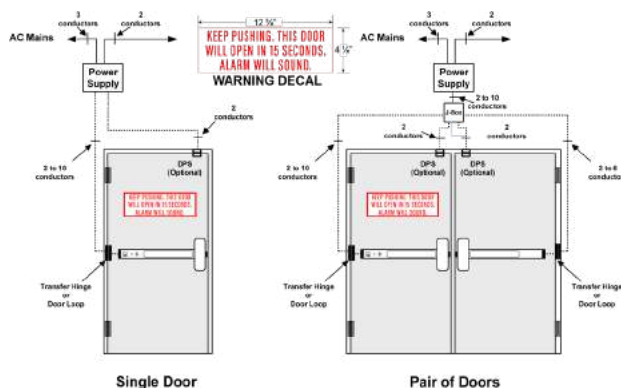
**DELAYED EGRESS OPTION IS AVAILABLE ON ALL 7700 SERIES EXIT DEVICES ( GLS7700 & GLSCV7700 Narrow Stile Exit Devices on 36" Only. Must use DEKIT48. )**

**♦♦ NOTE: DEKIT IS INSTALLED ON THE EXIT DEVICE UPON ORDERING. ♦♦**

*Must Specify: 7700 Series ITEM # and DEKIT36 (for 36") or DEKIT48 (for 48") separately.*

*for Example: A7700EO36 US32D with Delayed Egress option,*

*ORDER: "A7700EO36 US32D" and "DEKIT36 US32D" as two line items.*



NOTE: STANDARD PACKAGING INCLUDES DECAL STICKER ON DOOR.

**MUST ORDER CR602RF OR CR631RF POWER SUPPLY TO HONOR WARRANTY AND UL MARKING**

Cal-Royal's electrified lever trim provides remote locking and unlocking capabilities using industry safety standards. The solenoid can be energized from a distant controller, thus allowing access control of the opening.

The control of stairwells in high-rise buildings is a common application for this trim, where electric pullback of the exit device's latch bolt is cost prohibitive or not required. This is especially practical in applications where fire/life safety codes require a "fail-safe" condition which is not an option with electrified latch pullback devices. Because the current draw is quite low there is no need for a more expensive power supply to provide the surge current.

### Features

- Continuous duty solenoids used to insure trouble-free operation
- Internally mounted solenoid to ease installation (no special door prep required)
- No hassle 3-year warranty

### Options

- Available Fail Safe (Electrically Locked) or Fail Secure (Electrically Unlocked)
- Voltage options – 12V or 24V (AC / DC)
- Request to Enter Switch (REE) available
- CRU2 – Current Reduction Unit to improve solenoid life in "continuously on" applications

### Specifications

Solenoid..... Continuous Duty

Operating Voltage.... 12 or 24V AC / DC  $\pm$  10%  
(must specify 12 or 24 volts when ordering)

Amperage.....250mA @ 12V or 150mA @ 24V

Coil Resistance.....12V = 49 $\Omega$  or 24V = 159 $\Omega$

### To order, Specify:

OPTIONS: FAIL SAFE (FS)

FAIL SECURE (FSE)

Anti-Microbial Coating available  
in US26D or US32D Only.  
Use part # "**ANTB-TRIM**"  
when ordering.

ITEM#	DESCRIPTION
FS12	FS12 FAIL-SAFE OPTION 12V AC/DC
FS24	FS24 FAIL-SAFE OPTION 24V AC/DC
FSE12	FSE12 FAIL-SECURE OPTION 12V AC/DC
FSE24	FSE24 FAIL-SECURE OPTION 24V AC/DC

**TO ORDER** other design, add: "ESC22", "ESC77", "ATESC77", "RLESC77", "TUBESC77", "LONESC77", "TACESC77", "NESC98", "ATESC98", "RLESC98", "TUBESC98", "LONESC98", "TACESC98" to ITEM#

e.g. FSE24**ATESC77** for ESC77 in AT design

**TO ORDER** heavy duty design add **HD**, **TS**, or **RL** to Item # e.g. FS12**HD** or FS12**TS** or FS12**RL**

### Lever Trim Designs



**ESC22**



**NESC**



**RLESC**



**ATESC**



**LONESC**



**TACESC**



**HDESC**



**TUBESC**



**HDTSESC**



**HDRLESC**



## ELECTRONIC CRCODE007

### Features

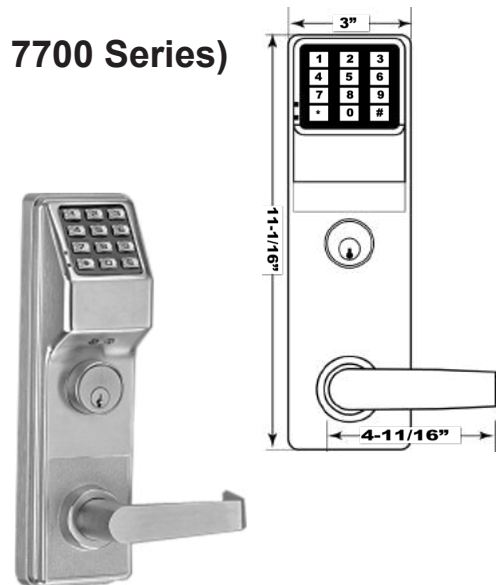
- Dual mode for code free entry either mechanically by key or electronically thru the keypad
- Designed for 6600, 7700 and 9800 Series Rim Exit Devices
- Can store up to 90 different numeric user codes in 4, 5 or 6 digits
- Settings remain in memory when batteries are removed
- Audible alarm sounds after 3 incorrect attempts
- Connections available for remote release switch and automatic lock activation when linked to Fire alarm system
- Can be used as STOREROOM or CLASSROOM function
- Factory default set as STOREROOM function
- Fast and easy programming via master code



## CR4000 (for 9800 Series) and CR5000 (for 6600 & 7700 Series) TRILOGY® KEYLESS EXIT TRIM

### Features

- Clutch mechanism insures long life and durability
- Fingertip and / or Windows Programmable
- 2000 User Codes: Master, manager, supervisor and users
- Real Time Clock for up to 40,000 Event Time / Date-Stamped Audit Trail
- Up to 500 Lock / Unlock Schedules (with Time Zone Support)
- Rugged 12-Button Metal Keypad
- Non-Handed; Fully Field Reversible
- Adaptable to most major manufacturers of standard RIM and IC RIM Cylinders
- Battery operated; uses 5 AA batteries
- Optional Interchangeable Core available with Best, Falcon & Arrow



## KABA® - Cal-Royal Combination

Cal-Royal's Exit hardware devices combined with Kaba InSync CP provide a variety of alternatives when addressing community access control. Recommended for applications such as controlling building entry openings, common area rooms and doors with exit devices. InSync CP are available as stand-alone battery operated door locks designed to work in conjunction with Cal-Royal's Exit Hardware Devices.

**KABA InSync CP is not sold through CAL-ROYAL.**

For inquiries and information on InSync line of products, please visit [www.kabamultihousing.com](http://www.kabamultihousing.com)



The CRPS1N is a heavy duty, high quality, low cost solution for powering a single latch retracting exit device. The solid-state design insures years of trouble-free operation. The power supply delivers raw, unregulated DC current which is ideal for the extreme in-rush requirement of most solenoid driven electric latch retracting exit devices. The power supply comes housed in a sturdy, yet compact metal enclosure.

### CRPS1N



#### Features:

- Power supply delivers the necessary high current in-rush for a single exit device
- Solid-state design eliminates problems associated with mechanical relays
- Single input/output
- No hassle 3-year warranty



#### Specifications:

- Input voltage – 120V AC, 60 Hz
- Output voltage – 24V DC unregulated @ 1A
- Temperature range: 0 to 49° C; 32 to 120° F
- Maximum humidity: 85%
- 1 Solid-State input / output (input triggered by dry contact)
- LEDs – RED = Power indicator  
GREEN = Channel indicator
- **Enclosure dimensions: 11" x 11" x 4"**

The CRPS2 Series power supplies are high quality, cost effective solution for powering two electric latch-retracting exit devices. These power supplies provide the necessary surge current that most latch-retracting exit devices require. The CRPS2 Series offers features found on power supplies costing much more; and the solid-state design and careful attention to detail make the CRPS2 Series ideal choice for the discerning user who requires a power supply that can offer years of trouble-free operation.



### CRPS2 CRPS2BB



#### Features:

- Delivers the necessary in-rush current to power two latch pullback exit devices.
- Two independent inputs / outputs
- Solid-state design eliminates problems associated with mechanical relays
- Thermal overload sensing reduces risk of failure due to overheating
- Fire alarm disconnect link
- Intelligent short circuit detection detects shorts much faster than fuses and isolates the short to the individual output
- Removable Euro-style terminal blocks allow for easy installation
- No hassle 3-year warranty

- **CRPS2 Enclosure dimensions: 11" x 11" x 4"**
- **CRPS2BB Enclosure dimensions: 13" x 15.5" x 5"**

#### Additional Features (CRPS2BB Only):

- Efficient battery backup / charging circuitry with zero voltage drop at power loss
- Solid state reverse polarity protection for battery connections
- Audible alert when sensing AC power failure & low battery (batteries not included)

#### Specifications:

- Input Voltage – 120V AC, 60 Hz
- Output Voltage – 24V DC regulated @ 2A
- Temperature Range – 0° to 120°F
- 2 Solid-State input / output (input triggered by dry contact)
- Power Tap - Continuous 24V DC @ .5A
- LEDs – RED = Power indicator  
GREEN = Output indicator  
ORANGE = Battery Output Indicator

The CRPS202 and CRPS202B (Battery Backup) are regulated, linear power supplies rated at 2 Amps continuous and are specifically designed to power electrified mortise and cylindrical locks, electric strikes, mag locks, and motorized exit devices.



### CRPS202 CRPS202B



#### Features:

- Built to run up to 2 locks, exit trim and LP Motor Kits
- Interruption-free battery back-up
- Door mounted LED Power Indicator
- Over-voltage protection
- Regulated, independent battery charging
- Automatic uninterrupted backup circuit
- Fire alarm link
- No hassle 3-year warranty

- **CRPS202 Enclosure dimensions: 11" x 11" x 4"**
- **CRPS202B Enclosure dimensions: 13" x 15.5" x 5"**

#### Specifications:

- Input voltage – 120V AC, 60 Hz
- Output voltage – 24V DC regulated @ 2A
- Temperature range: 0 to 49° C; 32 to 120° F
- Maximum humidity: 85%
- 2 Solid-State input / output (input triggered by dry contact)
- LEDs – RED = Power indicator  
GREEN = Output indicator  
ORANGE = Battery Output Indicator

The CRSW3 power supply is a low cost, regulated switching power supply. It is designed specifically to supply power to low current DC devices such as mortise locks, cylindrical locks and electric strikes. The CRSW3 supplies 2.4A @ 27V DC and provides (3) non-fused outputs. The CRSW3 comes housed in a 10" x 10" x 4" sturdy metal enclosure.

### CRSW3



#### Features:

- Adjustable output voltage from 24-27VDC
- No hassle 3-year warranty

#### Specifications:

- Input voltage – 110 / 220V AC
- Output voltage – 2.4A @ 27V DC
- (3) Non-fused outputs
- *Enclosure dimensions: 10" x 10" x 4"*

The CRPS5 power supply is a regulated, linear power supply rated at 5 Amps @ 24V DC. Its state-of-the-art, solid-state design offers a flexible and cost effective solution to powering and controlling low current DC locking devices. It is available in 4, 6, and 8 I/O models.



### CRPS5 (5 Amps, 1 I/O)



#### Features:

- Adjustable output voltage from 24-27V DC
- Independent, Battery backup charging circuit at 27.6V with Solid-state design and very low voltage loss
- No hassle 3-year warranty

#### OPTIONS:

CRPS5-4 (1.25 Amps, 4 I/O)  
CRPS5-6 (0.83 Amps, 6 I/O)  
CRPS5-8 (0.625 Amps, 8 I/O)

#### Specifications:

- Input voltage - 110V AC
- Output voltage - 24V DC @ 5A continuous current
- Up to (8) Solid-state inputs (specify dry contact or voltage trigger)
- Up to (8) Solid-state outputs
- Thermal auto-resettable fuses

The CRPS440B and CRPS480B (Battery Backup) are regulated, linear power supplies rated at 4 Amps @ 24V DC to (4) or (8) PTC fused outputs. It also provides (4) or (8) solid-state input triggers, protects system relays from shorts, grounds and surges. These power supplies may also be used to power electrified mortise and cylindrical locks, electric strikes, mag locks, motorized exit devices.



### CRPS440B CRPS480B



#### Features:

- Built to run up to 4 or 8 locks, exit trim and LP Motor Kits
- Interruption-free battery back-up
- Door mounted LED Power Indicator
- Over-voltage protection
- Regulated, independent battery charging
- Fire alarm link
- No hassle 3-year warranty
- *Enclosure dimensions: 13" x 15.5" x 5"*

#### Specifications:

- Input voltage – 120V AC, 60 Hz
- Output voltage – 4A @ 24V DC
- Temperature range: 0 to 49° C; 32 to 120° F
- Maximum humidity: 85%
- **CRPS440B:** 4 Solid-State input / output (input triggered by dry contact)
- **CRPS480B:** 8 Solid-State input / output (input triggered by dry contact)
- LEDs – RED = Power indicator  
GREEN = Output indicator  
ORANGE = Battery Output Indicator

# Electrical Latch Retraction

Our electrified latch pullback exit device allows for remote keyless access control in high occupancy / high traffic conditions where exit devices are required. Common applications include conditions such as hospitals, airports, schools, churches and they are commonly specified in applications that require automatic door openers. The device may be continuously energized allowing for a push / pull condition if desired.

## Features:

- Available in 7700 / 9800 / 2200 Series, including rim, vertical rod, concealed vertical rod, mortise exit device, fire and non fire-rated devices
- MM4 (9800 / 2200) or MM4S (7700) Smart Module: On board diagnostics with audible feedback for adjustment and power issues
- "PTS" (Push to Set Technology): 5 second electronic adjustment for easy post installation adjustment
- Electric dogging rated for continuous duty - Auto retraction if dogged push pad is pulled from position
- Low Current Draw - Field switchable to "High Torque" mode
- Up to 300' wire run with (2) 18ga wire - Long wire runs provides installer with convenience of placing the locking device power supply in a centralized location; i.e. the same closet as the access panel
- 8' cable with Quick Connect for MM4 / MM4S module to easily connect to power supply lead
- 3-year "No Hassle" warranty

## Specifications:

- Voltage – 22 to 28V DC
- System protection – unit shutdown when voltage exceeds 28V DC
- Average In-rush Current – 900mA; Average Hold Current - 215mA
- PTS adjustment – approx. 1/4"
- Wire run: 300' with 18ga wire

**MUST USE CRP POWER SUPPLIES  
TO HONOR WARRANTY**

**INSTALLED ON THE EXIT DEVICE**  
USE **FLR7700 ADD** (FOR 7700 SERIES),  
**FLR2298 ADD** (FOR 9800 / 2200 SERIES)

**FOR FIELD INSTALLATION**  
USE **FLR7700 KIT** (FOR 7700 SERIES),  
**FLR2298 KIT** (FOR 9800 / 2200 SERIES)

## To Order:

- **Must Specify:** Exit Device item # and **FLR7700 ADD** (for 7700 Series) or **FLR2298 ADD** (for 9800 / 2200 Series) as two separate line items. For Example: A7700EO36 US32D with ELR option, order "A7700EO36 US32D", and "FLR7700 ADD" as two line items.
- **\*Use FLR7700 KIT (for 7700 Series) or FLR2298 KIT (for 9800 / 2200 Series) if ordered separately.**
- **Optional Switch** (RX or LX) is also available and should be added as a 3<sup>rd</sup> line item as needed.

# FLR2298 KIT (for 9800 & 2200 Series) & FLR7700 KIT (for 7700 Series)



## FEATURES

- Fast quiet and smooth operation
- Low surge current draw
- MM4 / MM4S module is compatible with most 24V DC, 1A (or greater) regulated power supplies
- Electronic dogging
- If push pad is pulled from opening position, MM4 / MM4S will re-set itself and pull back the latch without fail
- Push to set (PTS) electronic adjustment for latchbolt travel
- On-board self diagnostics for fast, easy troubleshooting at the opening
- 8' cable with quick connect for MM4 / MM4S module
- Up to 300' wire run with 2-18GA wire to power supply, saves cost
- 3-Year "No Hassle" Warranty issues reliability to the owner



**FLR2298 KIT**



**FLR7700 KIT**

## Tested to 2,000,000 Cycles

*Complete accessory kit to convert 36" & 48" devices.  
Door is secure without power. Door is unlatched electronically.  
Latchbolt retracted by pushpad inside or electronically by adding power.*

## SPECIFICATIONS

- ♦ Operating Voltage Range - 22 to 28V DC
- ♦ System Protection - Unit shutdown when voltage exceeds 28V DC
- ♦ Standard - Average Current Peak - 900mA;  
Average Current Hold - 215mA
- ♦ High Torque - Average Current Peak - 2A;  
Average Current Hold - 250mA

## WIRE RUN

- ♦ 300' with 18ga wire

## OPTIONS

- REX - Request to Exit switch available factory installed
- VDREXKIT-ED - Field Installable Request to Exit kit available
- LBM - Latch Bolt Monitor switch available factory installed
- Power Supplies - PS1 for single door or two door simultaneous operation, PS2 / PS2BB for up to two independently operated doors, PS5 Series for up to eight independently operated doors or most 1A or greater regulated power supplies.



# Signal Switch RX and LX

**RX** (request to exit) signal switch is used to signal the use of an opening from the push side. When the push pad is depressed, the switch is activated. These devices are equipped with an internal SPDT (single pole double throw) switch that monitors the touch bar.

**LX** (latch bolt monitoring) signal switch monitors both egress and access of an opening. When the latch bolt is retracted, the switch is activated. These devices are equipped with an internal SPDT (single pole double throw) switch that monitors the latch bolt position.

**LX** and **RX** switches can be combined.

**LX, RX** switches can be used in combination with ELR (electric latch retraction) option.

## Specifications

**RX** or **LX**.....Switch rated 0.5 amps @ 24V AC / DC resistive

Low current **RX** or **LX**.Switch rated 0.5 amps @ 24V AC / DC resistive

for Factory Installed. To Order, Specify: **Prefix "RX", "LX" or "LXRX"** before 7700 / 9800 / 2200 when ordering.

**RX**.....Request to Exit switch for field installation

**LX**.....Latch bolt Monitoring switch for field installation

**LXRX**.....Latch bolt Monitoring / Request to Exit Combination

for example: Use **RX7700** to order RX Switch for 7700 Series Exit Devices

# RX9800-M & RX7700-M

REQUEST TO EXIT SWITCH KIT FOR FLR2298 KIT, FLR7700 KIT

## FEATURES

- APPLICABLE FOR 7700, 9800 AND 2200 SERIES EXIT DEVICES
- **RX (REQUEST TO EXIT) SIGNAL SWITCH FEATURE IS USED TO SIGNAL THE USE OF AN OPENING FROM THE PUSH SIDE**
- **WHEN THE PUSH PAD IS DEPRESSED, THE SWITCH IS ACTIVATED**
- **THESE DEVICES ARE EQUIPPED WITH AN INTERNAL SPDT (SINGLE PULL, DOUBLE THROW) SWITCH THAT MONITORS THE TOUCH BAR**
- **FIELD INSTALL**



## SPECIFICATIONS

- Rating - 5A @ 120V AC
- Configuration - Green - Common (C)  
Blue - Normally Open (NO)  
Gray - Normally Closed (NC)

## KIT INCLUDES

- 1 - Rex Sticker
- 2 - Phillips Head Screws
- 2 - Washers
- 1 - Cable Tie Mount
- 1 - REX Switch with 4' Lead
- 1- Cable Tie

# ELECTRIFIED HINGES

## FEATURES

- The Electrified Hinge makes door wiring easy, safe and reliable
- Power can now be transferred from the frame into the door either concealed or exposed
- We are now able to monitor the position of the door, transfer power and incorporate both functions into a single hinge
- We now have the ability to electrify other hardware items such as Exit Devices, and Electrified Locks
- Full Mortise Hinges are highly recommended for modification purposes
- Monitoring can be supplied on a half surface hinge if the need arises
- It is recommended that the center hinge location be used with all electrically modified hinges
- The maximum voltage allowed in electrified hinges is 48 volts. The current (amperes) should also be taken into consideration



**FOR QUICK CONNECT OPTION ON 8-WIRE & 12-WIRE ELECTRIFICATION, PREFIX "ELQC" BEFORE ITEM #.**



**molex**  
MICRO-FIT 3.0™ INTERCONNECT SYSTEM AVAILABLE TO RETROFIT COMMON QUICK CONNECTION SYSTEMS SUCH AS ELECTROLYNX® OR ALLEGION CONNECT®.

4-, 6- and 8-wire available on all standard weight, heavy weight and concealed ball bearing hinges in all sizes. Specify Hinge.

## ENERGY TRANSFER HINGES FOR CYLINDRICAL LOCKS, MORTISE LOCKS AND PANIC TRIMS

Prefix **ELE** + (No. of wires) before **ITEM #**

- ELE4: 4 Wires** - 26 gauge - 1A@24V (per pair)  
**ELE6: 6 Wires** - 28 gauge - 1A@24V (per pair)  
**ELE8: 8 Wires** - 28 gauge - 1A@24V (per pair) - **ELQC8:** (For QC Option)  
**ELE12: 12 Wires** - 28 gauge - 1A@24V (per pair) - **ELQC12:** (For QC Option)

## ENERGY TRANSFER HINGES FOR ELECTRIFIED PANIC BAR (ELR)

Prefix **ELELR** + (No. of wires) before **ITEM #**

- ELELR4: 2 Wire** -18 gauge, 5A (16A in-rush for 300 ms.) + **2 Wire** -26 gauge  
**ELELR6: 2 Wire** -18 gauge, 5A (16A in-rush for 300 ms.) + **4 Wire** -28 gauge  
**ELELR8: 2 Wire** -18 gauge, 5A (16A in-rush for 300 ms.) + **6 Wire** -28 gauge  
**ELELR12: 2 Wire** -18 gauge, 5A (16A in-rush for 300 ms.) + **10 Wire** -28 gauge

**\*\*Each 18 AWG wire is rated 24 Volts AC/DC at 5 amps max. continuous, or 16 amps max. current with 300 msec. minimum "off" time between pulses, for 10 seconds**

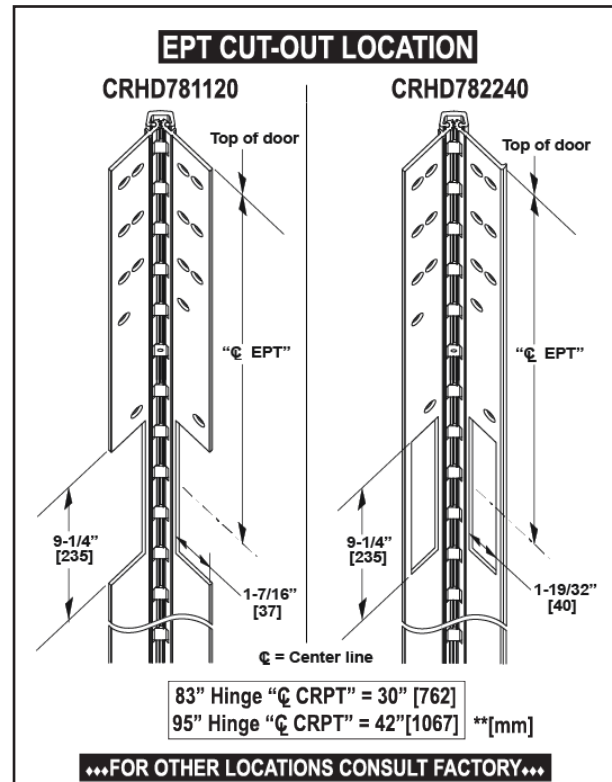
ITEM#	NO. OF WIRES	CONTINUOUS HINGE ELECTRIFICATION MODIFICATIONS FOR <b>CRHD781120</b> AND <b>CRHD782240</b> ONLY
CET8CRHD781120 CLR	8	Removable 12" Aluminum Gear Hinge Can easily be removed for adjustment and service.
CET8CRHD781120 DB		
CET8CRHD782240 CLR		
CET8CRHD782240 DB		
EPT	--	Cut-out according to Von Duprin Part # EPT-10 and Cal-Royal CRPT-10, CRPT-10C and CRPT-2 location



CET8CRHD782240



CET8CRHD781120



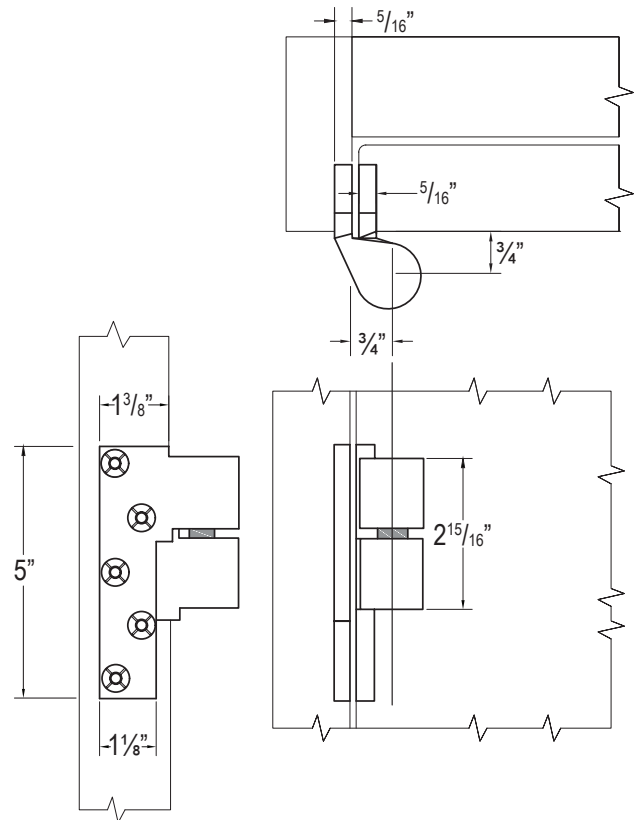
## ELECTRIFICATION

- ▶ For medium and heavy wood and metal doors in high traffic areas
- ▶ **4 wires, 26 gauge**
- ▶ Can be used on exterior and interior doors
- ▶ Can be used with top and bottom pivots
- ▶ Handed
- ▶ Not load bearing
- ▶ Maintains door alignment and aids in installing bottom pivots
- ▶ Doors 60" to 90" in height should use one intermediate pivot
- ▶ Each additional 30" warrants another intermediate pivot
- ▶ Vertical adjustment up to  $\frac{3}{16}$ "
- ▶ Fasteners: 8 pcs wood screws and 8 pcs. machine screws



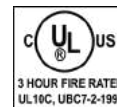
**ELEPV010**

ITEM #	SIZE	OFFSET	THICKNESS
ELEPV010-RH	5" x 4 1/4"	3/4"	5/16"
ELEPV010-LH	5" x 4 1/4"	3/4"	5/16"



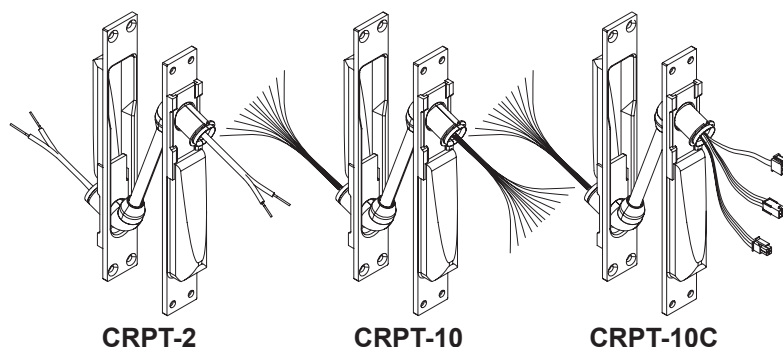
# CRPT-2, CRPT-10, CRPT-10C

## CONCEALED POWER TRANSFER UNITS



### Features:

- **CRPT-2, CRPT-10** and **CRPT-10C** are designed to transfer electrical power from the frame to the door in a very secure manner
- **UL 10C-Listed** for up to 3 hours for Fire Rated doors and frames  
**Standard 7-2**, "Fire Test of Door Assemblies" (1997)
- **UL-Listed** as Miscellaneous Fire Door Accessories
- Classified according to Uniform Building Code (UBC)
- Unit is mortised into the edges of the door and frame and is completely concealed when door is in the close position
- Designed for use in high traffic openings
- Packaged individually with fasteners for wood, steel or aluminum doors and frames
- All parts are made of metal including back boxes - no plastic parts
- Crimp connectors are supplied for a more secure and clean connection
- Housing Dimensions: 9" H x 1 1/4" W x 1 5/8" D (229mm x 32mm x 41mm)
- Minimum door thickness - 1 3/4"
- Approximate shipping weight: 2.25 lbs.
- Standard Finishes:
  - AL - Aluminum
  - DU - DURO
- *Not for use with swing-clear hinges, pocket pivots, butt hinges larger than 6", 1 1/2" offset pivots or center hung doors*



### Can be used in combination with the following hinges:

HINGE TYPE	MAXIMUM DOOR SWING
Butt Hinges up to 5"	180°
5 1/2" butt hinges	130°
6" butt hinges	110°
Up to 3/4" offset pivots	180°

**WARNING:** Not for use with swing-clear hinges, pocket pivots, butt hinges larger than 6", 1 1/2" offset pivots or center hung doors

### TECHNICAL SPECIFICATIONS

<b>CRPT-2</b>	- (2) 18 AWG Wires - Max. Rating: Up to 2 AMPS @ 24V DC, 2A or 120V AC NEC Class 3
<b>CRPT-10</b>	- (10) 24 AWG Wires - Max. Rating: Up to 1 AMP @ 24V DC, 1A
<b>CRPT-10C</b>	- (10) 24 AWG Wires - Max. Rating: Up to 1 AMP @ 24V DC, 1A - 3 separate quick-link connectors for a more organized connection

### MANUFACTURER CROSS REFERENCE

CAL-ROYAL	Von Duprin*	Securiton*	ABH*	SDC*
CRPT-2	EPT2	CEPT-2	PT200	PTM-2
CRPT-10	EPT10	CEPT-10	PT1000	PTM-10
CRPT-10C	EPT-10C	EL-CPT-10C	-	-

\*Brand names are trademarks or registered trademarks of their respective companies.



# MAGNETIC DOOR HOLDER

## Features

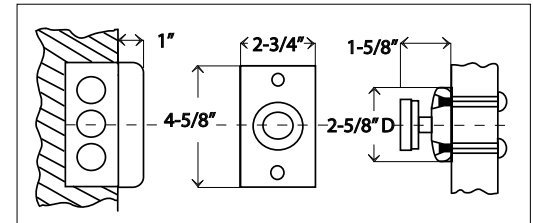
- Tri-voltage (Can be wired 12V DC, 24V AC / DC or 120V AC)
- Can be used on Fire or Smoke Barrier doors Held-Open until released by a Remote Switching device
- Used alternatively as Hold-Open system
- Thru-bolted Armature for Security
- 30-45 Pound Holding Power
- Underwriters US and Canada Listed
- ANSI / BHMA A156.15
- Available in US28 (Brushed Aluminum), Duro and Gold finishes



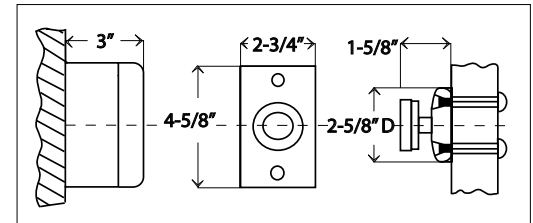
Approved by the California Department of Forestry & Fire in accordance with printed instructions, applicable codes and ordinances in a manner acceptable to the authority having jurisdiction.

### MDHR-1 RECESSED WALL MOUNT

PACKED WITH 1" EXTENSION BOLT



### MDHS-2 SURFACE WALL MOUNT



PERFORMANCE DATA			
MODEL	VOLTS	mAmps	VA
MDHR-1	12 DC	60	72
MDHS-2			

ITEM #	DESCRIPTION	FINISH	PCS /MC	UNIT
MDHR-1	Magnetic door holder recessed wall mount with 1" extension bolt	US28 DURO GOLD	1	Ea.
MDHS-2	Magnetic door holder surface wall mount			
MDHEXT-3	Additional 1" Extension Bolt	US28		

CROSS REFERENCE									
FUNCTION	CAL-ROYAL	ABH	DORMA	RIXSON	NORTON	YALE	SARGENT	CORBIN RUSSWIN	LCN
RECESSED WALL MOUNTED 3 3/8" TOTAL PROJECTION	MDHR-1	2100* with 1" extension	EM-F24120	FM-998	6933	5933	1560	MA 204 MA 244	SEM 7850
RECESSED WALL MOUNTED 2 3/8" TOTAL PROJECTION	MDHR-1	2100	EM-F24120	FM-997	6934	5934	1560	MA 203 MA 243	SEM 7840
SURFACE WALL MOUNTED 4 3/8" TOTAL PROJECTION	MDHS-2	2300	EM-S24120	FM-996 FM-999	6935	5935	-	-	SEM 7830

## CR441EHO - CR441 WITH ELECTRONIC HOLD-OPEN TRACK

- Full Cover Multi-size
- Full Feature Closer
- ANSI A156.4 Grade 1
- UL Listed, Conforms to Standards
- UL10C and UBC7-2-1997
- BHMA Certified Lifetime Warranty
- Electronic Hold Open Track

### FEATURES

- Heavy Duty Electronic Closer / Holder Track for CR441 Door Closers
- Designed for Single Point Hold-Open for Fire and Smoke Barrier Doors
- Designed to Hold Doors Open in Normal Use and Close Under Fire Conditions
- Adjustable Hold-Open Force
- Functions as a Full Rack and Pinion Closer when Hold-Open is Not Engaged or Current is Interrupted
- Door Opening can be Adjusted on the Track Arm
- Concealed or Surface Wiring
- Interfaces with Alarm Systems
- Mounts on Either Head Frame or Stop
- Non-Handed
- Non-Sized
- 24V AC / DC Input for Holding Solenoid
- Includes Test Switch for Integrity Cycle Test

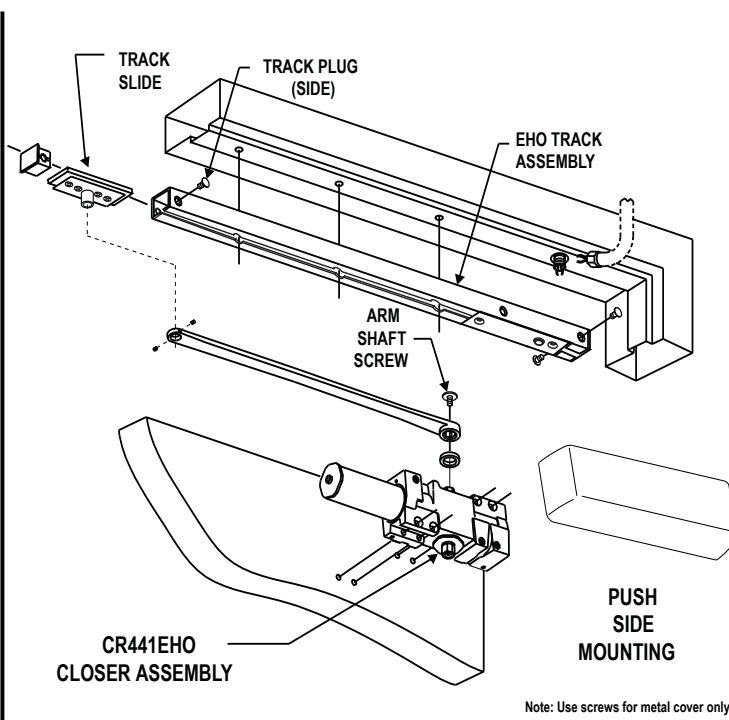
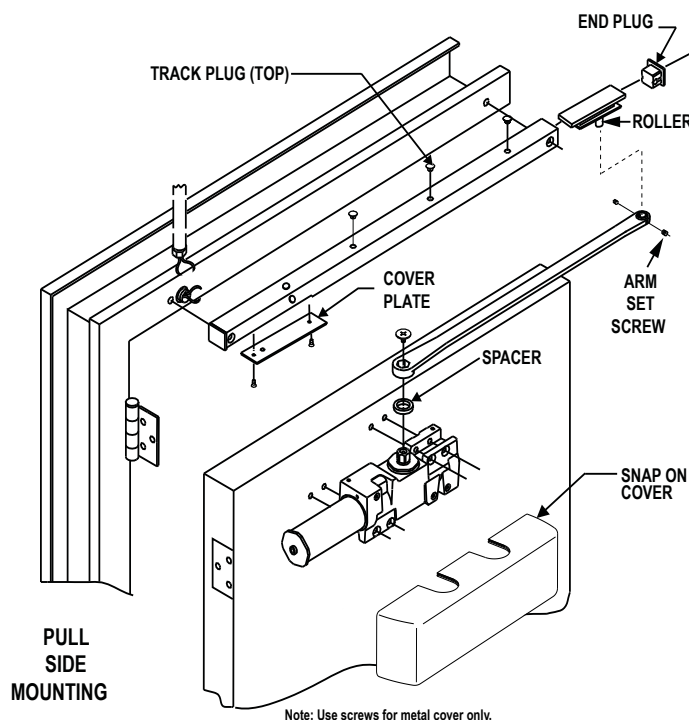


The **CR441EHO** is a Grade 1 heavy duty door closer with electrically controlled hold-open track arm. It is designed to provide adjustable hold-open for fire and smoke barrier doors.

Door is held open until current interruption releases mechanism and the door closes. It can also be interfaced to any alarm systems and has a built-in switch for integrity cycle testing.

Single lever (track) arm closer is specifically designed for interior doors.

The **CR441EHO** Series door closer body is UL & cUL listed for smoke barrier or labeled fire doors. Tested and certified under ANSI Standard A156.15. Conforms to life safety code, NFPA 101. BHMA Certified Lifetime Warranty.




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## DISCLAIMER

Dear Valued Customer,

Most products in our European Line catalog are certified for fire use and has been approved based on European Fire and Safety Standards, and are marked accordingly. The standards used are CE (European Conformity), EN European Standards (ENs) and BS EN (British Standard European Norm).

**CE** Marking is the symbol . The letters "CE" are the abbreviation of French phrase "Conformité Européene" which literally means "European Conformity". The term initially used was "EC Mark" and it was officially replaced by "CE Marking" in the Directive 93/68/EEC in 1993. "CE Marking" is now used in all EU official documents.

Our European Line are for use where CE and BS EN standards are required, mostly in European, Middle East and Asian countries. Products that have CE or EN markings does not automatically translate to UL fire and safety standards and may not be recognized by local fire marshalls during inspection.

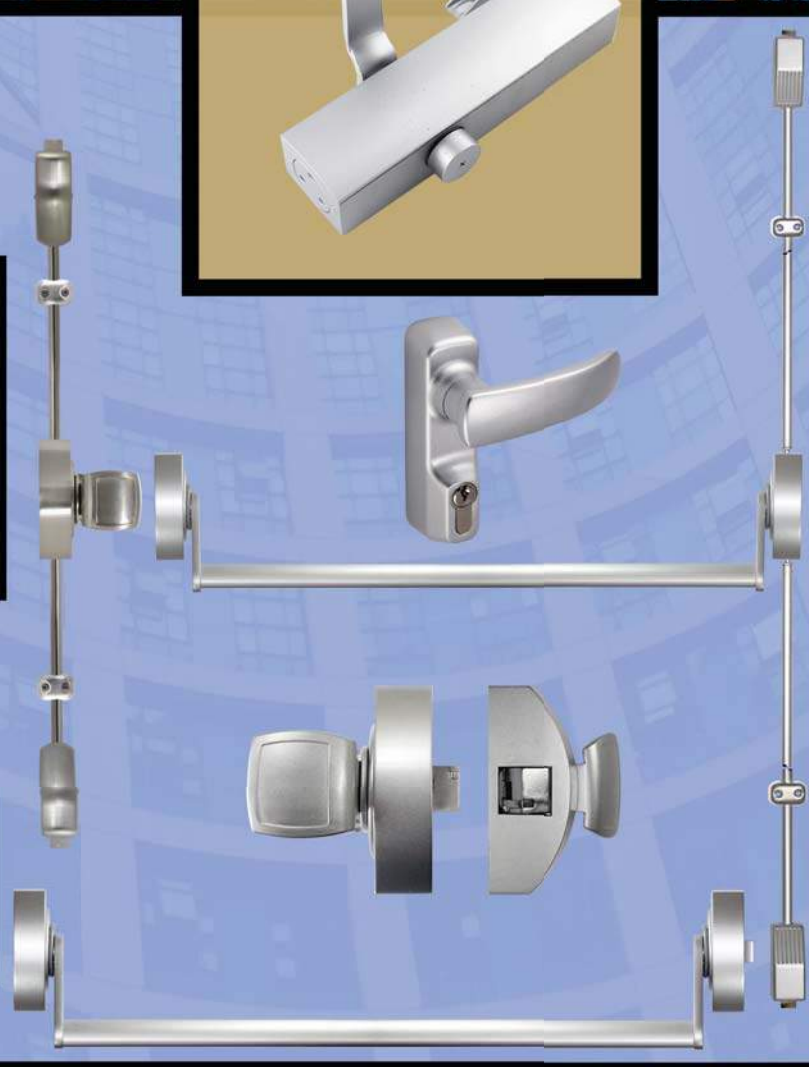
For UL Listed products, please refer to our standard product catalog. Cal-Royal Products, Inc. will not be held responsible for EU products that are installed in the US and did not meet Fire inspection standards.

Sincerely,

**CAL-ROYAL PRODUCTS, INC.**



# EURO-DOOR HARDWARE CATALOG



# EU 6400 SERIES MORTICE LOCKSET

European lockcase design offers simplified door preparation and modular accessories for easy functional change



EN Compliance: 12209:2012  
Classification: 2H810F3BC00

Powder coated case offers high corrosion resistance.

Quick-reverse latch for left and right hand application. No-hassle field-reversible.

25° follower action for firm positive operating action and with follower springing suitable for high frequency applications. Positive follower angle (1°) reduces the effect of wear which can lead to lever droop.

Profiled latch design provides positive location and operation.

20mm double throw deadbolt from 2 turns of the cylinder offers high level of security

Sashlock has a cylinder to latch function where both latch and deadbolt can be withdrawn by cylinder or key action.

Guided cylinder screw accurately aligns the fixing to the cylinder.

Conforms to the dimensional characteristics of DIN 18251 with follower to cylinder centres at 72mm (78mm for bathroom lock). The case is pierced to accept bolt through fixings at 38mm (up to 41mm) centres at the follower and the cylinder position,

One-piece square ended face plate in stainless steel grade 304 with satin finish.  
Optional round ended corner is also available.



# CE MARKING GUIDE FOR LOCKSETS

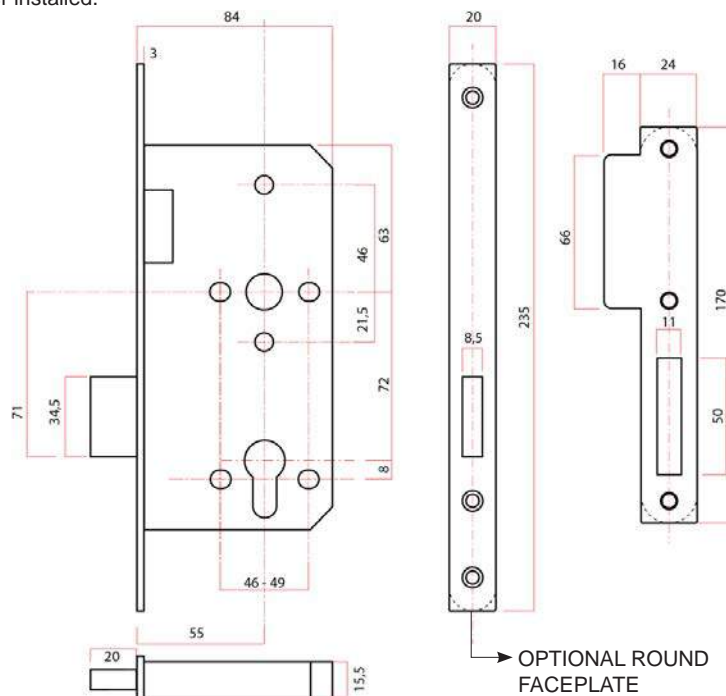
**EN 12209** classifies mechanically operated locks, latches and locking plates using an 11 digit coding system. Fundamental to this standard is a comprehensive classification system for assessing the wide range of products needed to satisfy the diverse requirements of the European market. Features assessed include normal use (and abuse) forces, long-term durability, fire/smoke resistance, corrosion and temperature resistance and security, both manipulative and physical.

<b>Digit 1 - Category of use</b>	<p>Grade 1: low frequency of use by people with a high incentive to exercise care and a small chance of misuse, e.g. internal residential doors</p> <p>Grade 2: medium frequency of use by people with some incentive to exercise care but where there is some chance of misuse, e.g. internal office doors</p> <p>Grade 3: high frequency of use by public or others with little incentive to exercise care and with a high chance of misuse, e.g. public doors</p>	<div>3</div> <div>1-3</div>
<b>Digit 2 - Durability</b>	Twelve grades are categorized with minimum figures for deadbolt and snib operation, and latch bolt operation with and without side load, as shown. The side load is applied to the latch bolt when it is being withdrawn	<div>X</div> <div>A-X</div>
<b>Digit 3 - Door mass and closing force</b>	Nine grades are categorized with maximum figures for closing force at various door masses as shown. Note: closing force is from a standing start: i.e. fully extended latch bolt in contact with striking plate at start of test	<div>8</div> <div>1-9</div>
<b>Digit 4 - Fire resistance</b>	<p>Grade 0: not approved for use on fire/smoke door assemblies</p> <p>Grade 1: suitable for use on fire/smoke door assemblies tested to EN 1634-1 etc.</p>	<div>1</div> <div>1</div>
<b>Digit 5 - Safety</b>	No requirement, but note: a lock or latch conforming to this standard can, at the same time, also be part of an exit device conforming to EN 179 or EN 1125.	<div>0</div> <div>0</div>
<b>Digit 6 - Corrosion resistance</b>	Eight grades are categorized with neutral salt-spray (NSS) corrosion resistance grades from EN 1670:1998, with and without temperature resistance.	<div>G</div> <div>0-G</div>
<b>Digit 7 - Security and drill resistance</b>	Seven grades are categorized with minimum figures for requirements relating to physical attack, with or without drilling of the lockcase.	<div>4</div> <div>1-7</div>
<b>Digit 8 - Field of door application</b>	Fifteen grades are categorized for identifying applications – hinged or sliding doors with rim or mortice locks with either keyless egress from inside or key locking from both sides. The grading determines which application is appropriate. In addition, there is a requirement that lock/latch should not be removable from outside or, for grades K to R, from inside using "standard" tools. Grades H and P require support for the lockcase when installed.	<div>B</div> <div>A-T</div>
<b>Digit 9 - Type of key operation and locking</b>	<p>Nine grades are classified for identifying types of key operation. The grading determines how the lock is assessed for deadlocking requirement as shown. In addition, there is a maximum key torque operating requirement of 1.5 Nm and a minimum key strength requirement of 2.5 Nm:</p> <p>Grade 0: not applicable;</p> <p>Grade A: cylinder lock or latch; manual locking;</p> <p>Grade B: cylinder lock or latch; automatic locking;</p> <p>Grade C: cylinder lock or latch; manual locking with intermediate locking;</p> <p>Grade D: lever lock or latch; manual locking;</p> <p>Grade E: lever lock or latch; automatic locking;</p> <p>Grade F: lever lock or latch; manual locking with intermediate locking;</p> <p>Grade G: lock or latch without key operation; manual locking;</p> <p>Grade H: lock without key operation; automatic locking.</p>	<div>A</div> <div>0-H</div>
<b>Digit 10 - Type of spindle operation</b>	<p>Five grades are specified:</p> <p>Grade 0: lock without follower</p> <p>Grade 1: lock with sprung lever or knob</p> <p>Grade 2: lock with light unsprung lever</p> <p>Grade 3: lock with heavy unsprung lever</p> <p>Grade 4: lock with manufacturer's own specification furniture</p>	<div>0</div> <div>0-4</div>
<b>Digit 11 - Key identification</b>	Nine grades are categorized based on the number of effective differs and levers. Grade 0 relates to a latch with no locking action	<div>0</div> <div>0</div>

## EU 6400 SERIES MORTICE LOCKSET

## EU6410 CYLINDER DEADLOCK

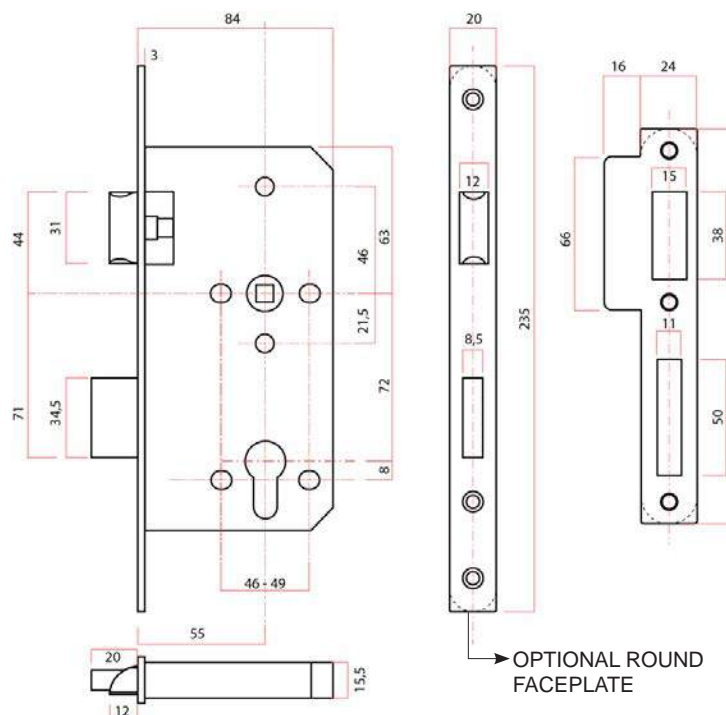
Function: Deadbolt thrown and retracted from one side or from both sides depending on the type of cylinder installed.



EN Compliance: 12209:2012  
Classification: 2H810F3BC00

## EU6420 CYLINDER SASHLOCK

Function: Latchbolt can be operated by lever handles on either side. Deadbolt thrown and retracted from one or from both sides depending on the type of cylinder installed. Cylinder action will operate both deadbolt and latchbolt.



EN Compliance: 12209:2012  
Classification: 2H810F3BC20



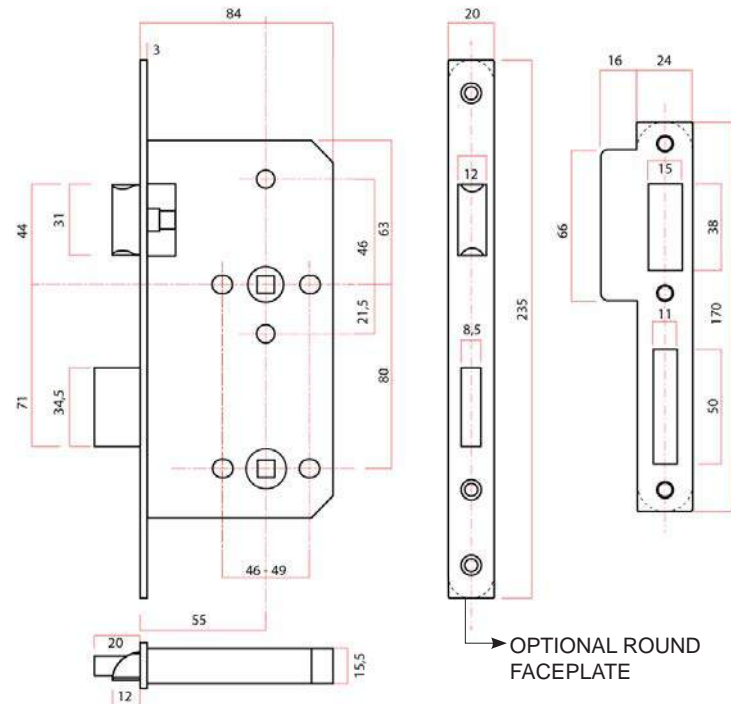
# EU 6400 SERIES MORTICE LOCKSET

## EU6430 BATHROOM LOCK

Function: Latchbolt operated by lever on either side. Deadbolt is thrown by thumbturn inside. An indicator with an emergency release can be installed on the outside of the door and operates in conjunction with the thumbturn.



EN Compliance: 12209:2012  
Classification: 2H810F-BC00



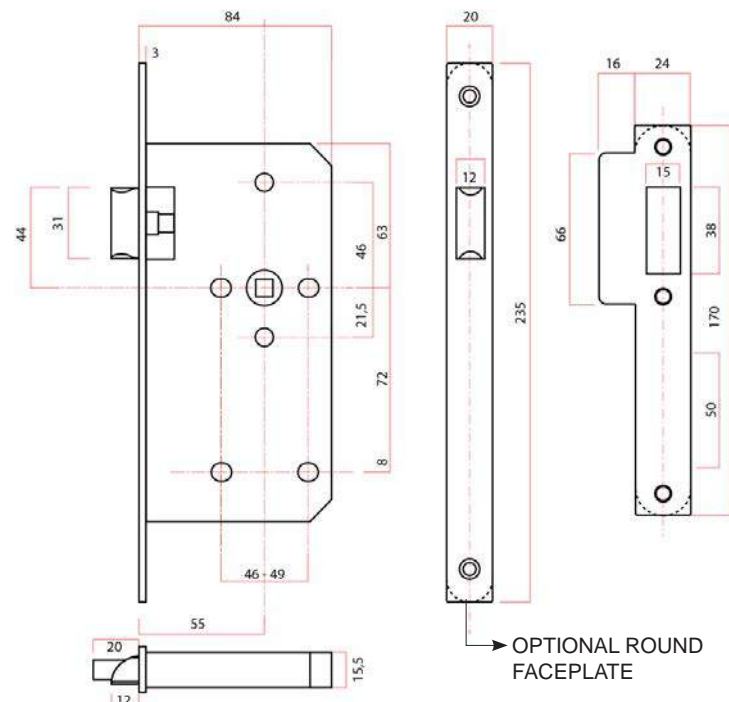
OPTIONAL ROUND FACEPLATE

## EU6440 PASSAGE LATCH

Function: Latchbolt can be operated by lever handles on either side all the time.



EN Compliance: 12209:2012  
Classification: 2H810F-BC00



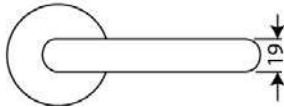
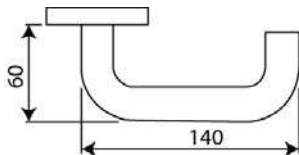
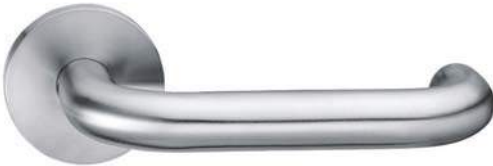
OPTIONAL ROUND FACEPLATE

# EU 6400 SERIES LEVER TRIMS

## LEVERSET DESIGNS

5-Year Warranty

6450



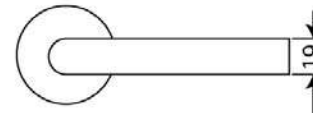
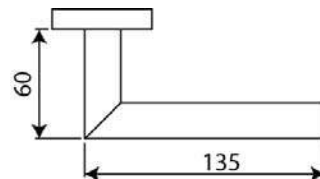
### FEATURES

- Stainless Steel Grade 304
- Installed on 8mm thick unsprung rose
- Bolts and spindle included for 34 - 54mm thick doors

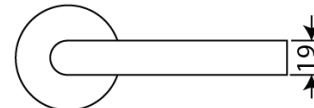
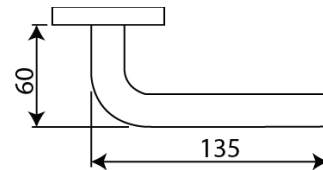
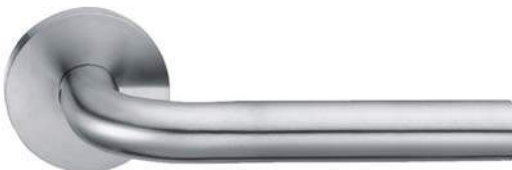
EN Compliance: EN1906 - Grade 4

EN1634 for up to 2 hour wood fire door applications and up to 4 hour metal fire door applications.

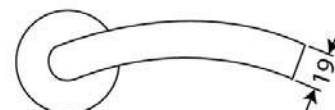
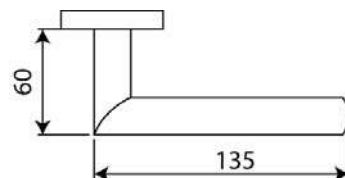
6451



6452



6453



# EU 6400 SERIES ACCESSORIES

## CYLINDERS

5-Year Warranty



KE-SCC-S-A  
KE-YA8-S-A



KE-SCC-D-C  
KE-YA8-D-C



KE-SCC-C-C  
KE-YA8-C-C



KE-P-D

<b>Standards &amp; Testing</b>	Conforms to EN1303
<b>Materials &amp; Features</b>	70mm, 6 pin standard, other sizes available
	Base Material: Brass
	3 Brass keys, Standard for non-masterkeyed system
<b>Master Keying</b>	4 level Master Keying system available
<b>Finish</b>	Satin Nickel Plated

ITEM CODE	KEYWAY	FUNCTION	LENGTH (mm)
KE-SCC-S-A	Schlage C	Half Cylinder	45
KE-YA8-S-A	Yale 8		
KE-SCC-D-C	Schlage C	Double Cylinder	60
KE-YA8-D-C	Yale 8		
KE-SCC-D-D	Schlage C	Double Cylinder	70
KE-YA8-D-D	Yale 8		
KE-SCC-C-C	Schlage C	Thumbturn Cylinder	60
KE-YA8-C-C	Yale 8		
KE-SCC-C-D	Schlage C	Thumbturn Cylinder	70
KE-YA8-C-D	Yale 8		
KE-P-D	-	Bathroom Cylinder	70

## ESCUTCHEONS



MODEL #	DESCRIPTION	FINISH
6910	Escutcheons (pair) - Lever key suitable for lock lever lock cases	Stainless Steel
6920	Escutcheons (pair) - Euro profile cylinder suitable for euro profile or dual profile cylinder lock cases	
6930	Bathroom turn and Indicator (set) - Supplied with 5mm bathroom function spindle Wide Turn	
6940	Escutcheons (pair) - Blank	
6950	Escutcheons (pair) - Oval profile cylinder suitable for oval profile or dual profile cylinder lock cases	

# CE MARKING GUIDE FOR EXIT DEVICES

**EN 1125** classifies panic exit devices using a 9 digit coding system. Each digit refers to a particular feature of the product measured against the standard's performance requirements.

**EN 179** classifies emergency exit devices to identify compliance with the standard performance requirements.

## Digit 1 - Category of use

Grade 3: High frequency use by public and others with little incentive to exercise care.

3

## Digit 2 - Durability

Grade 6: 100 000 cycles.  
Grade 7: 200 000 cycles.

7

## Digit 3 - Door mass and closing force

Grade 5: Up to 100kg.  
Grade 6: Up to 200kg.  
Grade 7: Over 200kg.

6/7

6

## Digit 4 - Fire resistance

Grade 0: Not approved for use on fire/smoke door assemblies.  
Grade A: Suitable for use on smoke door assemblies, based on requirements B1, Annex B.  
Grade B: suitable for use on fire and smoke door assemblies based on a test in accordance with EN 1634-1. Annex B contains additional requirements for panic exit devices to this grade.

5-7

B

0/A/B

## Digit 5 - Safety

Grade 1: All exit devices are required to satisfy the essential requirement of safety in use.

1

1

## Digit 6 - Corrosion resistance

Two grades are categorized:  
Grade 3: High resistance.  
Grade 4: Very high resistance.

3

3/4

## Digit 7 - Security and drill resistance

**EN 1125** Grade 2: Panic devices are primarily for the operation of a door from the inside.  
Safety considerations will always be given priority over security  
Grade 2: 1000N (minimum specification)

**EN 179** Grade 2: 1000N

2

2-5

## Digit 8 - Projection of Device

Grade 1: Projection up to 150mm (large projection).  
Grade 2: Projection up to 100mm (standard projection).

2

1/2

## Digit 9 - Type of device

**EN 1125** Type A: Panic device with push bar operation.  
Type B: Panic device with touch bar operation.

**EN 179** Type B: PANic Exit Device with push pad operation

A

A/B

B

B

## Digit 10 - Field of door operation

Category A - Single/Double door: active or inactive leaf.  
Category B - Single door only  
Category C - Double exit door; inactive door

A

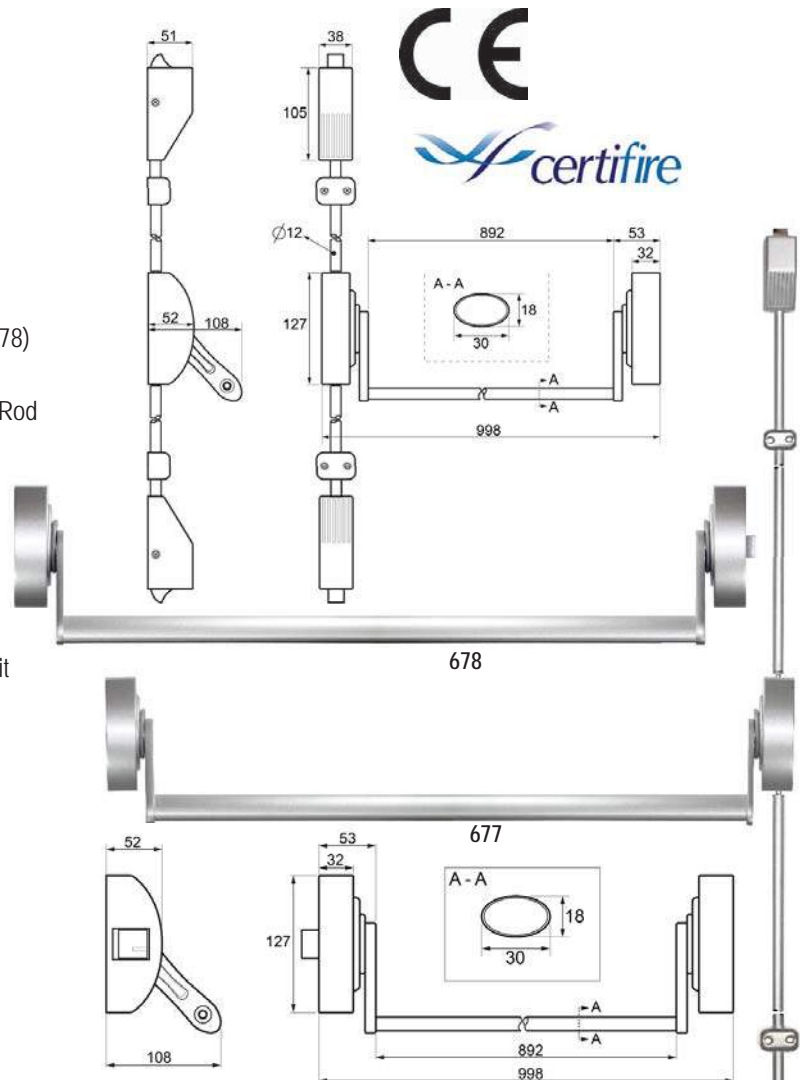
A-C



# EU 670 SERIES PUSH BAR PANIC EXIT HARDWARE

## Specifications

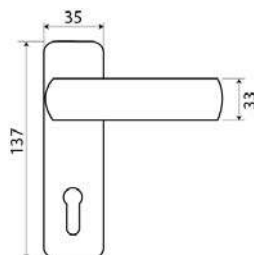
Testing.....	CE Marked EN 1125 and EN 1634 Fully Certified
Latching.....	Single Point (678) 2-Point (677) Anti-Thrust Latch prevents unauthorized latch retraction (678)
Pullman Latch.....	Supplied together with Vertical Rod Exit Device(677)
Hand.....	Non-handed
Application.....	Double door strike available for double doors (67-DSTPL) Designed to satisfy panic exit applications and emergency exit applications
Finish.....	Aluminum, Stainless Steel
Door Thickness.....	35mm - 65mm
Tubular steel shoots and cross bar.....	Can be cut on-site to suit door width and height
Horizontal Bar.....	Standard oval shaped, 900mm



MODEL #	FUNCTION	DOOR WIDTH / HEIGHT	FINISHES
677	Surface Vertical Rod Exit Device	Up to 2500mm high x 1300mm wide	Aluminum, SSS
678	Rim Exit Device	Up to 1300mm wide	Aluminum, SSS
ACCESSORIES			
67-XLVR	Extra Long Vertical Rod for 3048mm doors		
67-DSTPL	Double Door Overlapping Strike Plate		



6413E/LE



## ESCUTCHEON LEVER TRIM DESIGN

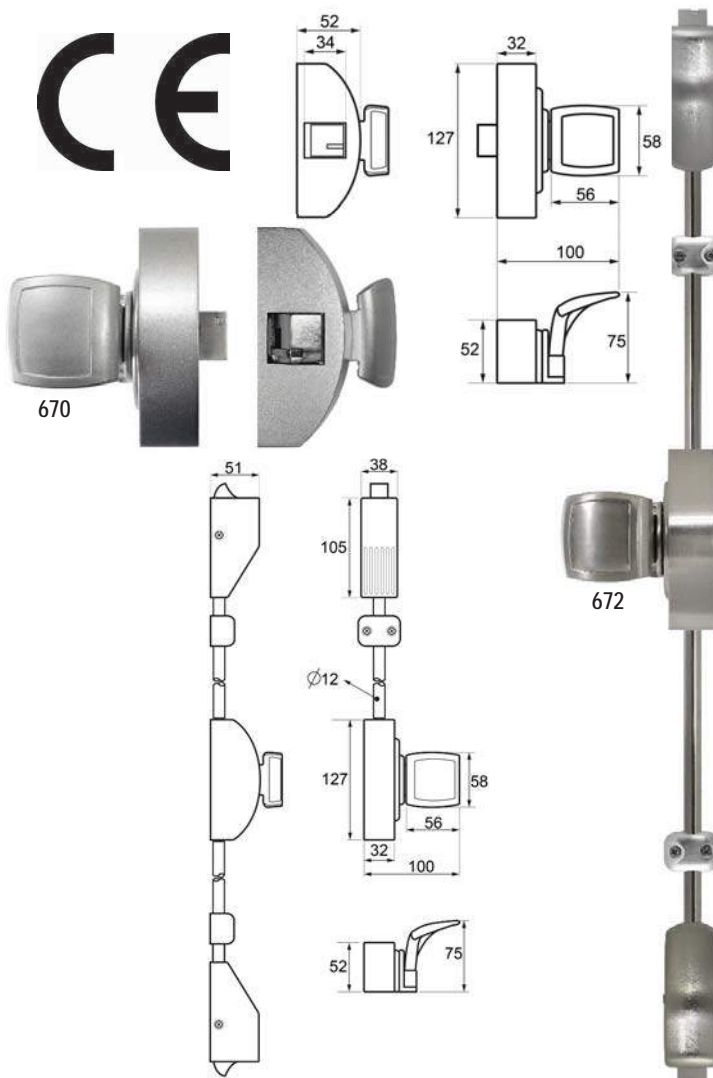
- Supplied with euro profile cylinder as standard
- Suitable for doors between 35mm to 65mm thick
- Non-handed. Easily field reversible

MODEL #	DESCRIPTION	DOOR THICKNESS	FINISH
6413E/LE	Outside access Lever Trim	35mm to 65mm thick	Aluminum, SSS

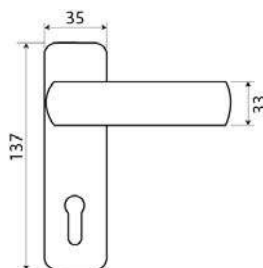
## EU 670 SERIES PUSH PADDLE EMERGENCY HARDWARE

## Specifications

Testing.....	CE Marked EN 179 Fully Certified
Latching.....	Single Point (670) 2-Point (672) Anti-Thrust Latch prevents unauthorised latch retraction (670)
Pullman Latch.....	Supplied together with Vertical Rod Exit Device (672)
Hand.....	Non-handed
Finish.....	Aluminum, Stainless Steel
Application.....	Double door strike available for double doors (67-DSTPL). Designed to satisfy emergency exit applications
Door Thickness.....	35mm - 65mm
Tubular steel shoots.....	Adjustable, can be cut on-site to suit door width and height



MODEL #	FUNCTION	DOOR WIDTH / HEIGHT	FINISHES
670	Push Paddle Rim Exit Device	Up to 1300mm wide	Aluminum, SSS
672	Push Paddle Surface Vertical Rod Exit Device	Up to 2500mm high x 1300mm wide	Aluminum, SSS
ACCESSORIES			
67-XLVR	Extra Long Vertical Rod for 3048mm doors		
67-DSTPL	Double Door Overlapping Strike Plate for 670		



## ESCUTCHEON LEVER TRIM DESIGN

- Supplied with euro profile cylinder as standard
- Suitable for doors between 35mm to 65mm thick
- Non-handed. Easily field reversible

MODEL #	DESCRIPTION	DOOR THICKNESS	FINISH
6413E/LE	Outside access Lever Trim	35mm to 65mm thick	Aluminum, SSS

# CE MARKING GUIDE FOR DOOR CLOSERS

**EN 1154** classifies door closers using a 6 digit coding system. Each digit refers to a particular feature of the product measured against the standard's performance requirements.

## Digit 1 - Category of use

Grade 3: For closing doors from at least 105° open.  
Grade 4: For closing doors from 180° open.

4  
3/4

## Digit 2 - Number of Test Cycles

Grade 8: 500 000 cycles.

8  
8

## Digit 3 - Door mass and closing force

Grade 5: Up to 100kg.  
Grade 6: Up to 200kg.  
Grade 7: Over 200kg.

3  
1-7

Closer Power Size	Width of Door (mm)	Max. Mass of Door (kg)
1	750	20
2	850	40
3	950	60
4	1100	80
5	1250	100
6	1400	120
7	1600	160

1  
0/1

1  
1

3  
0-4

## Digit 4 - Fire resistance

Grade 0: Not suitable for use on fire/smoke door assemblies.  
Grade 1: Suitable for use on fire/smoke door assemblies, subject to satisfactory assessment of the contribution of the door closer to the fire resistance of specified fire/smoke assemblies. This is assessed outside of EN 1154.

## Digit 5 - Safety

Grade 1: All door closer devices are required to satisfy the essential requirement of safety in use.

## Digit 6 - Corrosion resistance

GRADE	0	1	2	3	4
CORROSION RESISTANCE	No Defined	Mild	Moderate	High	Very High

# EU430CE & EU430 SERIES DOOR CLOSERS

The EU430 Series offers 2 types of compact overhead door closers suited for the most common door sizes. All the features, sturdiness, functionality and quality that spec writers are looking for can be found in these door closers.

## EU430CE DOOR CLOSER

Tested to EN 1154 **483113** and CE Marked  
EN 1634 fire Tested  
Certifire Approved CF390  
Fixed Power Size 3

## EU430 DOOR CLOSER

The EU430 is power adjustable by position during installation to suit closer sizes #2 to #4. It does not have the CE Mark and is designed for use in non-fire door applications only.



DATA AND FEATURES		430CE	430
Standard doors	≤850mm ≤40kg	O	v
	≤950mm ≤60kg	fixed	v
	≤1100mm ≤0kg	O	v
Body dimensions (mm)	Length	181	181
	Height	62	62
	Projection	42	42
Arm	Standard	v	v
	Track (standard)	O	O
	Track (hold-open)	O	O
Rack and pinion	Heavy Duty	v	v
Power adjustment arm bracket		v	v
Angle of opening		180°	180°
Fixed Strength or adjustable		fixed	adjustable
Method of adjustment		fixed	template
Separate latch action/closing speed		v	v
Closing and latching speed controlled	Dual Regulating Valves	v	v
Adjustable Tube Arm	Reinforced Type	v	v
Hold-open	Hold open arm	O	O
Back-check	Adjustable at valve	O	O
High quality hydraulic fluid		v	v
Non-handed		v	v
With cover		x	x
Application	Standard	v	v
Guarantee/years		10 years	10 years

v = yes

x = no

O = option

**10 Year Warranty**





# EU530 SERIES DOOR CLOSERS

## EU530 DOOR CLOSER

Tested to EN 1154  $48\frac{4}{2}113$  and CE Marked  
by Warrington APT Laboratories, UK  
Power Adjustable #2 to #4 by Position  
EN 1634 Fire Tested

### GUARANTEE:

A free replacement ex-works of any closer proven defective by reason either of faulty manufacture or defect in materials.

### POWER SHOE ARM BRACKET:

Designed to be reversed to increase final closing power by approximately 15%.

### BACK CHECK:

Provides a cushioning effect when the door is forcibly thrown open but does not serve as substitute for a door stop.

### DELAYED ACTION:

Provides prolonged closing time to assist passage of trolleys, wheel chairs, elderly people etc.

### STANDARD FINISHES:

Silver, dark brown or gold, other finishes upon request



Optional Cover

DATA AND FEATURES		530
Variable Closing Force	Spring strength (EN)	2 to 4
Standard doors	≤850mm ≤40kg	v
	≤950mm ≤60kg	v
	≤1100mm ≤80kg	v
	≤1250mm ≤100kg	v
Body dimensions (mm)	Length	204
	Height	55
	Projection	39
Arm	Standard	v
	Parallel	O
	Track (standard)	O
	Track (hold-open)	O
Rack and pinion	Heavy Duty	v
Power shoe arm bracket		v
Angle of opening		180°
Power Adjustable by spring		x
Power Adjustable by position		v
Sweep speed adjustable		v
Hold-open	Built-in	v
	Hold Open Arm	O
Back-check	Self-regulating	v
	Adjustable at valve	O
Delayed Action Adjustable		O
Non-handed		v
With Cover		O
Application	Regular (1)	v
	Parallel Arm (66)	O
	Transom (61)	v
Guarantee/years		10 years

v = yes

x = no

O = option



10 Year Warranty

# EU 8320 SERIES CONCEALED DOOR CLOSERS

## EU8320 CONCEALED DOOR CLOSER

The EU8320 is power adjustable by spring to suit closer sizes #2 to #4.

Tested to EN 1154 483113, CE Marked

EN 1634 Fire Tested by

Warrington APT Laboratories, UK



**EU8320 Series**



DATA AND FEATURES		8320
Variable Closing Force	Spring Strength (EN)	Adj 2 To 4
Standard Doors	≤850mm ≤40kg	v
	≤950mm ≤60kg	v
	≤1100mm ≤80kg	v
Body Dimensions (mm)	Length	210
	Height	53,5
	Projection	32
Arm	Standard	x
	Parallel	x
	Track (standard)	v
	Track (hold-open)	v
Rack and Pinion		x
Power Shoe Arm Bracket		x
Angle of Opening		120°
Power Adjustable by Spring		v
Power Adjustable by Position		x
Sweep Speed Adjustable		v
Latching Speed Adjustable		x
Hold-open	Built in	x
	Hold Open Arm	x
Back Check	Self-regulating	x
	Adjustable at Valve	x
Delayed Action Adjustable		x
Non-handed		v
Guarantee/years		10 years

v = yes

x = no

O = option

### GUARANTEE:

A free replacement ex-works of any closer proven defective by reason either of faulty manufacture or defect in materials.

### STANDARD FINISHES:

Silver, dark brown or gold, other finishes upon request

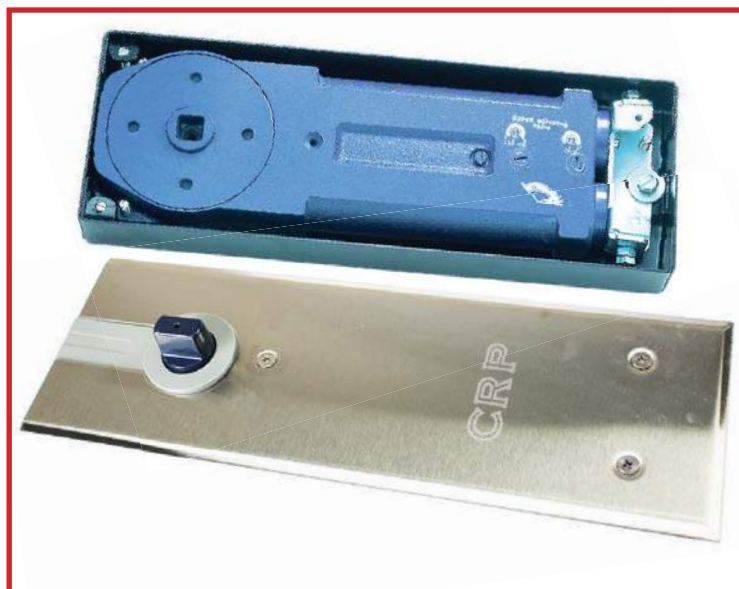


**10 Year Warranty**

# EU8840 SERIES FLOOR HINGES

## EU8840 SERIES FLOOR HINGES

Tested to EN 1154 383113 384113  
by Warrington APT Laboratories UK  
Power #2, #3, #4, #5  
EN 1634 Fire Tested



**NSA8840**

Standard Strap, Top and Bottom Pivot (NSA)



**OP8840 Offset Pivots**

**GUARANTEE:**

A free replacement ex-works of any closer proven defective by reason either of faulty manufacture or defect in materials.

**COVER PLATE FINISHES:**

Stainless Steel or Polished Brass

DATA AND FEATURES		8840
Variable Closing Force	Spring Strength (EN)	2 TO 5
Standard doors	≤850mm ≤70kg	8842 (Fixed)
	≤950mm ≤105kg	8843 (Fixed)
	≤1100mm ≤150kg	8844 (Fixed)
	≤1250mm ≤200kg	8845 (Fixed)
Body Dimensions (mm)	Length	306
	Width	108
	Thick	40
Arm	Standard	v
	Offset	O
Cam-Action		v
Angle of Opening		130°
Sweep Speed Adjustable		v
Latching Speed Adjustable		v
Hold-open	Without Hold Open	O
	at 90° Hold Open	v
	at 105° Hold Open	O
Back Check	Self-regulating	x
	Adjustable at Valve	O
Delayed Action Adjustable		O
Non-handed		v
Guarantee/years		10 years

v = yes

x = no

O = option



**10 Year Warranty**

# CE MARKING GUIDE FOR HINGES

**EN 1935** classifies hinges using a 8 digit coding system. Each digit refers to a particular feature measured against the standard's performance requirements.

## Digit 1 - Category of use

- Grade 1** - Low frequency of use by people with a high incentive to exercise care and with a small chance of accidents occurring or of misuse.
- Grade 2** - Medium frequency of use by people with some incentive to exercise care but where there is some chance of accidents occurring or of misuse.
- Grade 3** - High frequency of use by public and others with little incentive to exercise care and with a high chance of accidents occurring or of misuse.
- Grade 4** - For use on doors which are subject to frequent violent usage.

4

1-4

7

1-9

## Digit 2 - Durability/Number of Test Cycles

GRADE	1	2	3	4	5	6	7	8	9
CYLCES	2.500	5.000	10.000	25.000	50.000	100.000	200.000	500.000	1.000.000

6

1-9

## Digit 3 - Test Door Mass

GRADE	1	2	3	4	5	6	7	8	9
up to	20 kg	40 kg	60 kg	80 kg	100 kg	120 kg	160 kg	299 kg	259 kg

1

0/1

1

0/1

## Digit 4 - Fire Behaviour

- Grade 0:** Not suitable for use on fire/smoke door assemblies.
- Grade 1:** Suitable for use on fire/smoke resisting door assemblies, subject to satisfactory assessment of the hardware item relative to the performance of the specified fire/smoke resisting door assembly.

4

0-4

## Digit 5 - Safety In Use

- Grade 0:** No defined safety performance
- Grade 1:** Satisfies the safety in use requirements contained in the "Construction Products Directive" issued by the EU.

0

0/1

## Digit 6 - Corrosion resistance

GRADE	0	1	2	3	4
CORROSION RESISTANCE	No Defined	Mild	Moderate	High	Very High

13

1-14

## Digit 7 - Security Burglar Resistance

- Grade 0:** Not suitable for use on burglar-resistant door assemblies
- Grade 1:** suitable for use on burglar-resistant door assemblies, subject to satisfactory assessment of the contribution of the hinges to the burglar resistance of specified burglar-resistant door assemblies. Such assessment is beyond the scope of the European Standard.

## Digit 8 - Hinge Grade

Fourteen grades of hinge are identified in this European Standard.



# EU 6800 SERIES HINGES

All hinges are tested to EN1935 Grade 13 and are CE Marked.



BB6801



BB6802



BB6803

MODEL	SIZE (mm)	BASE MATERIAL	EN1935 GRADE
BB6801	101,6 X 76,2 X 3	Stainless Steel	13
BB6802	101,6 X 89 X 3	Stainless Steel	13
BB6803	101,6 X 101,6 X 3	Stainless Steel	13

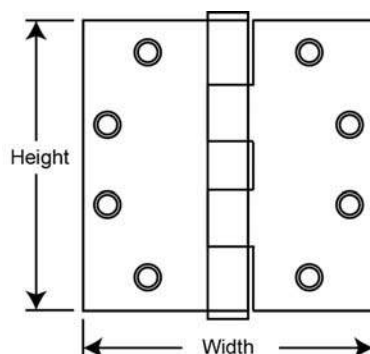
## BASIC INFORMATION

### Types of Hinges:

**Full Mortice** – Both leaves are morticed. One leaf on the frame and one on the door.

## FEATURES:

- Five Knuckle ball bearing hinges
- Available in Grade 304 and 316 Stainless Steel
- Template drilled
- Suitable for wood and metal doors
- Tested for En1935:2002 Grade 13 and CE Marked
- Maximum door weight up to 120kgs
- Machine Screws available upon request



### Determining the number of hinges needed:

Generally there should be 1 hinge for every 762mm of door height. Refer to table below for quick reference.

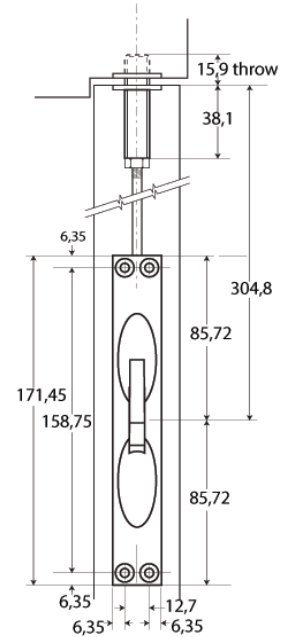
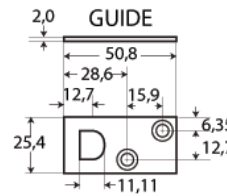
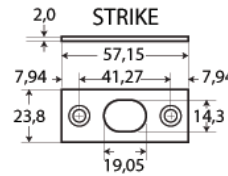
HEIGHT OF DOOR	NUMBER OF HINGES
1524mm or below	2
1549,4mm – 2311,4mm	3
2311,4mm – 3048mm	4

## BUILDERS HARDWARE

### MF6341 (previously ULFB634)

#### Solid Brass Commercial Manual Flush Bolt

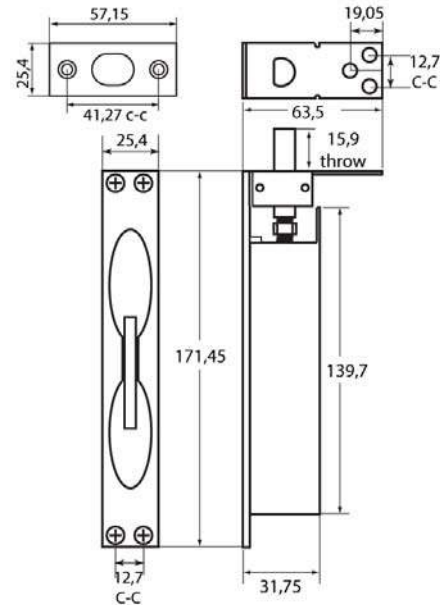
- Non-handed
- Bolt tip is 12,7mm Diameter
- Optional Rod lengths available  
457,2mm  
609,6mm  
914,4mm  
1.219,2mm
- Architectural finishes available



### WF6341 (previously WFUL634)

#### Solid Brass Commercial Wood Lever Extension Flush Bolt

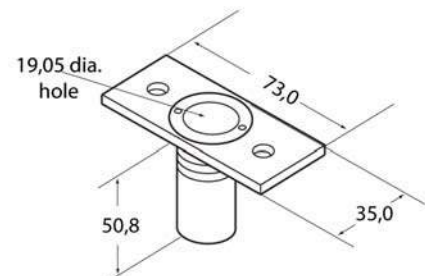
- Commercial Type
- 15,9mm Throw
- Especially designed for wood or composite doors
- Architectural finishes available



### DPSTRK1

#### Brass Dustproof Strike

- Spring tension calibrated for positive closing and eliminates binding
- Can be locked in up position

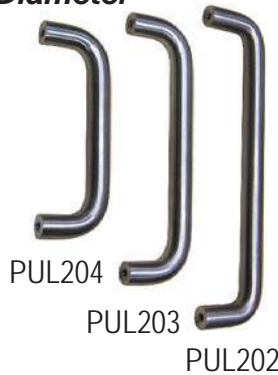


# BUILDERS HARDWARE

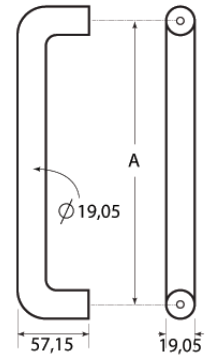
## PUL202, PUL203, PUL204

### Solid Bar Round Pulls 19,05mm Diameter

- Stainless Steel, Brass and Aluminum Material
- Type 1 Thru-Bolt Mount for 44,45mm thick doors
- Individually packed
- Easy installation
- Architectural finishes available



ITEM	A (mm)
PUL202	254
PUL203	203,2
PUL204	152,4



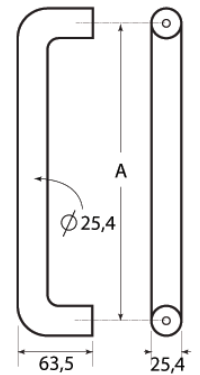
## PUL200, PUL201

### Solid Bar Round Pulls 25,4mm Diameter

- Stainless Steel, Brass and Aluminum Material
- Type 1 Thru-Bolt Mount for 44,45mm thick doors
- Individually packed
- Easy installation
- Architectural finishes available



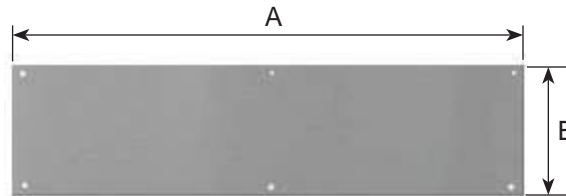
ITEM	A (mm)
PUL200	254
PUL201	203,2



## PSPL3515, PSPL4016

### Push Plates

- Individually packed with protective film and screws
- Easy installation
- Thickness: 1,27mm
- Architectural finishes available

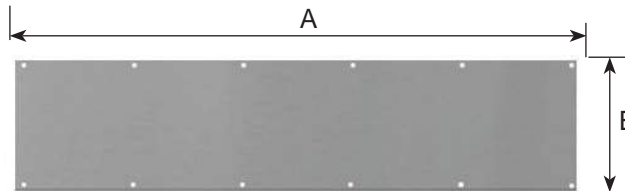


ITEM	A (mm)	B (mm)
PSPL3515	381	88,9
PSPL4016	406,4	101,6

## BKICK834, BKICK1034, BKICK1046

### Metal Kick Plates

- Packed with #6 x 5/8" screws
- Thickness: 1,27mm
- Architectural finishes available

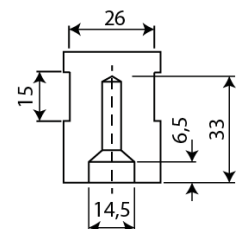
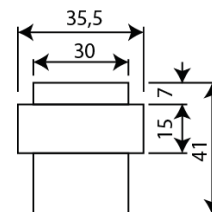


ITEM	A (mm)	B (mm)
BKICK834	863,6	203,2
BKICK1034	863,6	254
BKICK1046	1168,4	254

## EUS-03

### Floor Mount Door Stop

- Stainless Steel Material





# DOOR HARDWARE PROTECTION KITS

**Interdens®** is an Intumescent material made from mono ammonium phosphate (MAP). When the hardware morticed into the fire rated door set is unprotected, it affects the performance of the door set. Interdens® protects and enhances the fire resistance of timber and timber-based materials. It limits the combustion of timber from the heat generated by the metal parts touching the timber. When exposed to fire, Interdens® rapidly produce a large quantity of micro porous heat insulating foam which protects the timber material from the heat.

## IMPORTANT NOTICE

*The installation must comply with specifications and testing carried out in accordance with EN 1634 in order to guarantee the fire resisting properties of the door. The applicable national and international guidelines, standards, approvals and other relevant regulations with regard to smoke control and fire resistance also have to be taken into consideration.*

PROD CODE	PROFILE	DESCRIPTION	STANDARD COLOURS	UOM
MORTICE LOCK CASES				
		LOCK KITS - 30 & 60 MIN FIRE RATING WITH SELF-ADHESIVE TAPE BACK		
ITLE-160X90-1MM		Lock Kit to suit standard DIN upright Mortice lock case To suit 55mm/60mm backset and 72 centres Supplied as 1 part kit around lock body w/ S/A tape for easy installation	White	Per Lock
ITLE-160X90-2MM		LOCK KITS - 90 & 120 MIN FIRE RATING WITH SELF-ADHESIVE TAPE BACK	White	Per Lock
		Lock Kit to suit standard DIN upright Mortice lock case To suit 55mm/60mm backset and 72 centres Supplied as 1 part kit around lock body w/ S/A tape for easy installation		
ANSI MORTICE LOCK CASES				
ITLA-160X90-1MM		ANSI LOCK KITS - 30 & 60 MIN FIRE RATING WITH SELF-ADHESIVE TAPE BACK	White	Per Lock
		Lock Kit to suit standard DIN upright Mortice lock case Supplied as 1 part kit around lock body w/ S/A tape for easy installation		
ITLA-160X90-2MM		ANSI LOCK KITS - 60 & 120 MIN FIRE RATING WITH SELF-ADHESIVE TAPE BACK	White	Per Lock
		Lock Kit to suit standard DIN upright Mortice lock case Supplied as 1 part kit around lock body w/ S/A tape for easy installation		
STRIKE PLATE KITS				
ITSP-160X90-1MM		Strike plate kit to suit standard ANSI Mortice lock case Supplied as 1 part kit around lock body w/ S/A tape for easy installation	White	Per Lock
ITSP-160X90-2MM		Strike plate kit to suit standard ANSI Mortice lock case Supplied as 1 part kit around lock body w/ S/A tape for easy installation	White	Per Lock
FLUSH BOLT KITS				
ITFL-160X90-1MM ITWFL-160X90-1MM		Flush Bolt Kit to suit 200 x 19mm Flush Bolt Supplied as 1 part kit around lock body w/ S/A tape for easy installation	White	Per FB
ITFL-160X90-2MM ITWFL-160X90-2MM		Flush Bolt Kit to suit 200 x 19mm Flush Bolt Supplied as 1 part kit around lock body w/ S/A tape for easy installation	White	Per FB
HINGE KITS - 90 & 120 MIN FIRE RATING WITH SELF-ADHESIVE TAPE BACK				
ITH-102X76-2MM		Hinge Kit to suit 102 x 76mm (Supplied as 2 pcs of 100 x 30mm)	White	Per Hinge
ITH-102X89-2MM		Hinge Kit to suit 102 x 89mm (Supplied as 2 pcs of 100 x 36mm)	White	Per Hinge
ITH-102X102-2MM		Hinge Kit to suit 102 x 102mm (Supplied as 2 pcs of 100 x 42mm)	White	Per Hinge
DOOR CLOSER KITS				
		DOOR CLOSER KITS - TO SUIT POWER SIZE 1 - 3		
ITDC-SZ123-FD3060		Door Closer Kit FD30 - 1mm thick 2-Part Kit: 1mm around Door Closer Body and 1mm around Top Channel with S/A tape	White	Per Closer
ITDC-SZ123-FD90		Door Closer Kit FD60 - 2mm thick 2-Part Kit: 2mm around Door Closer Body and 2mm around Top Channel with S/A tape	White	Per Closer
		DOOR CLOSER KITS - TO SUIT POWER SIZE 3 - 5		
ITDC-SZ225-FD3060		Door Closer Kit FD60 - 1mm thick 2-Part Kit: 1mm around Door Closer Body and 1mm around Top Channel with S/A tape	White	Per Closer
ITDC-SZ225-FD90		Door Closer Kit FD90 - 2mm thick 2-Part Kit: 2mm around Door Closer Body and 2mm around Top Channel with S/A tape	White	Per Closer