

# 1500 Series EMLock®



SDC's patented EMLock® design represents the pinnacle of magnetic lock evolution. The modular EMLock® assembly makes them easy to stock, install, upgrade and maintain.

SDC 1500 series EMLocks® include a lifetime warranty and are available in 650lbs, 1200lbs, and 1650lbs holding force. Compatible with any access control system, all EmLocks® are adaptable to virtually any application utilizing Top Jamb or Glass Door mounting kits. The epoxy-less design provides a superior appearance with a plated or anodized finish on all sides. The interlocking EZ mount assembly leaves hands free for wiring and securing of mounting screws. EMLocks® are UL Listed and ANSI Grade 1 compliant.

## FEATURES

- Modular Design
- Modular Upgrade Kits
- Field Upgradeable without removing from the frame
- Uniform Design & Installation
- Identical Housing, Template & Accessories
- Quick Mount Assembly

### STANDARD MOUNTING FASTENERS

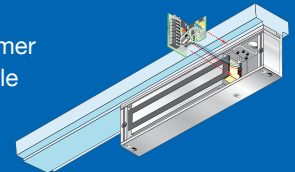
Self Drilling & Tapping Sheet Metal Screws and 10/32 Machine Screws supplied for different application needs. Blind nuts and Tool are optional.

### UPGRADE MODULES INCLUDE:

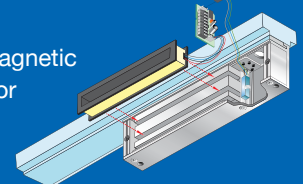
- Relock Delay Timer
- Magnetic Bond Sensor
- Door Status Sensors
- Anti-Tamper Switch
- Holding Force Upgrade
- Energy Saver Upgrade

## MODULAR UPGRADE KITS

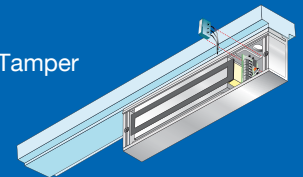
**EZ-T-10** Timer  
Input Module



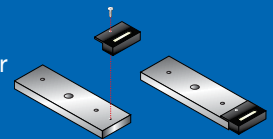
**EZ-B-10** Magnetic  
Bond Sensor



**EZ-A** Anti-Tamper  
Switch



**EZ-D-10** Door  
Position Sensor



For complete details contact SDC to request the Modular Upgrade Kit datasheet or download from the SDC website: [SDCsecurity.com/modularkits](http://SDCsecurity.com/modularkits)



**1510 SERIES GRADE 1**  
1650 LB / 748 KG HOLDING FORCE



1511

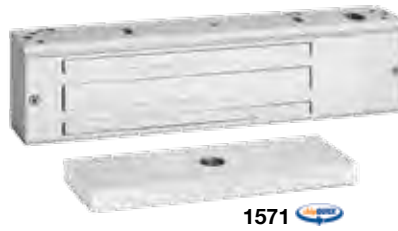


1512

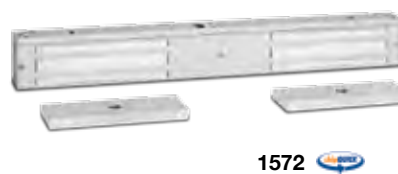


1513

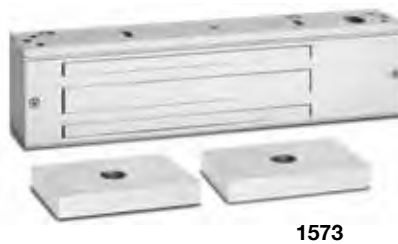
**1570 SERIES GRADE 1**  
1200 LB / 544 KG HOLDING FORCE  
3 WATTS ENERGY SAVER



1571



1572



1573

**1580 SERIES GRADE 1**  
650 LB / 295 KG HOLDING FORCE




1581



1582


## MODELS

 **1511** Single EMLock®

 **1512** Double EMLock®


**1513** Single, split armature for pair of doors

 **1571** Single EMLock®

 **1572** Double EMLock®

**1573** Single, split armature for pair of doors

 **1581** Single EMLock®

 **1582** Double EMLock®

## SPECIFICATIONS

<b>Voltage</b>	12/24VDC Voltage Sensing Input
<b>Single</b>	350mA @ 24VDC; 670mA @ 12VDC 11" L x 2-3/4" H x 1-9/16" D
<b>Double</b>	700mA @ 24VDC; 1.34A @ 12VDC 22" L x 2-3/4" H x 1-9/16" D

## SPECIFICATIONS

<b>Voltage</b>	12/24VDC Voltage Sensing Input
<b>Single</b>	125mA @ 24VDC; 250mA @ 12VDC 11" L x 2-3/4" H x 1-9/16" D
<b>Double</b>	250mA @ 24VDC; 500mA @ 12VDC 22" L x 2-3/4" H x 1-9/16" D

## SPECIFICATIONS

<b>Voltage</b>	12/24VDC Voltage Sensing Input
<b>Single</b>	220mA @ 24VDC; 440mA @ 12VDC 8-3/4" L x 2-1/8" H x 1-1/4" D
<b>Double</b>	440mA @ 24VDC; 880mA @ 12VDC 17-1/2" L x 2-1/8" H x 1-1/4" D

## LISTINGS & PERFORMANCE SPECIFICATIONS

### UL Listed U.S. & Canada:

GWXT Auxiliary Locks  
CVXJ Burglary Resistant Electrically Operate-Door Lock  
UL10C: Position Positive Pressure Compliant

UBC: Classified in accordance with Uniform Building Code standard 7-2 "Fire Test for Door Assemblies"  
ANSI/BHMA A156.23:  
Grade 1, one million cycles  
BHMA Certified

CSFM: California State Fire Marshal Listed 3774-0324:100  
MEA: City of New York 61-95-E



**HOW TO ORDER****1 | SPECIFY MODEL****1510 Series****1511** Single EMLock®**1512** Double EMLock®**1513** Single, split armature for pair of doors**1570 Series****1571** Single EMLock®**1572** Double EMLock®**1573** Single, split armature for pair of doors**1580 Series****1581** Single EMLock®**1582** Double EMLock®**2 | SPECIFY FINISH****Anodized Finishes****V** Aluminum (standard)**Y** Black anodized**Painted Finishes****C** Brass powder coat**X** Dark bronze powder coat**Plated Finishes (special order)****P** Bright chrome**Q** Dull chrome**3 | SPECIFY FACTORY INSTALLED OPTIONS****D** **Door Position Sensor:** Indicates door open and door closed.

(Not available with 1513 and 1573) SPDT Dry, 250 mA @ 30VDC.

**B** **Magnetic Bond Sensor:** Indicates locked and unlocked, low holding power, tampering and obstruction between armature and magnetic core.

(Not available with 1513 and 1573)

• 1510 &amp; 1570 Series: SPDT Dry, 250 mA @ 30VDC.

• 1580 Series: SPST N.O., Dry, 250 mA @ 30VDC.

**A** **Anti-tamper Sensor:** Indicates access cover removal. SPDT Dry, 1 Amp @ 30VDC.**L** **Bi-color Status LED Indicator:** Field selectable Red, Green, or Amber (requires additional wiring)

Indicates lock energized when wired to lock input.

Indicates de-energized/unlocked or "Enter/Go" when wired to optional timer module.

Indicates energized and de-energized or "Enter/Go" when wired to access control auxiliary output.

Indicates door is closed and locked and door is unlocked when wired to BA.

**T** **Adjustable Timer:** Built-in field adj. 0-30 sec. re-lock delay.

Specify one for single or double EMLocks® (not available with 1580 series)

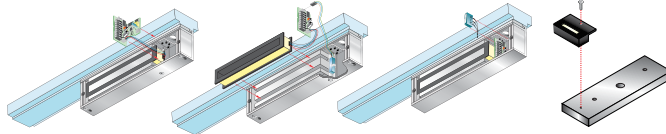
**4 | SPECIFY BRACKETS AND FILLER PLATES (OPTIONAL)**

See pages 12-15 for Models and Specifications

**ACCESSORIES****FIELD INSTALLED OPTION KITS**

Ordered separately for field upgrade.

For complete details contact SDC to request more information on Modular Upgrade Kits.



All available through

**EZ-T-10 Adjustable Timer Input****Module:** Specify (1) for single or double EMLocks®  
(not available with 1580 series)**EZ-D-101510, 1570 Door Position****Sensor Module:** Specify (2) for double EMLocks®  
(not available with 1513 and 1573)**EZ-D-801580 Door Position Sensor****Module:** Specify (2) for double EM-Locks®**EZ-B-101510, 1570 Magnetic Bond****Sensor Module:** Specify (2) for double EMLocks®  
(Not available with 1513,1573)**EZ-B-801580 Magnetic Bond Sensor****Module:** Specify (2) for double EM-Locks®**EZ-A Anti-Tamper Switch Module:**

Indicates cover plate removal.

**EZ-1510W Holding Force Module:**Exchange a 1200lb wire coil (1570 series) with this 1650lb wire coil.  
Specify (2) for double EMLocks®**EZ-1570W Energy Saver Module:**

Save on power supply and long term energy costs by exchanging 8.4 Watt, 1650lb coil with 3 Watt, 1200lb holding force coil. Specify (2) for double EMLocks®

## TOP JAMB MOUNTING BRACKETS

### MODELS

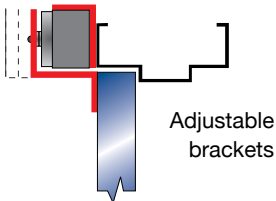
Kits for 1511, 1512, 1571, 1572

-  **TJ1** Single
-  **TJ2** Double

Kits for 1581, 1582

-  **TJ81** Single
-  **TJ82** Double

See below for available finishes




Adjustable brackets

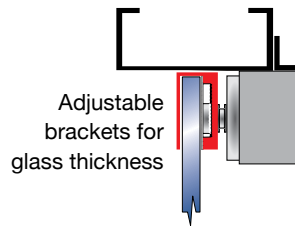
## UNIVERSAL GLASS DOOR MOUNTING KIT

### MODELS

Kit for 1511, 1571, 1581

-  **HDB1** Single
- Kit for 1512, 1572, 1582
- HDB2** Double, 2 single kits

See below for available finishes



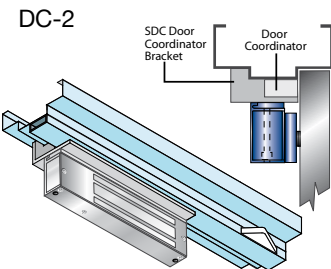
Adjustable brackets for glass thickness

## DOOR COORDINATOR LOCK MOUNTING KIT

### MODELS

**DC-1** Door coordinator mounting bracket for single models 1511 and 1571.

**DC-2** Door coordinator mounting bracket for double models 1512 and 1572.



## ARCHITECTURAL HOUSINGS

Specify housings with your EMLocks®. Example: 1511V-30; 1512V-60

### FEATURES

**Full Width Housings** - appear as part of the frame to provide a superior architectural appearance.

Compatible with Models: 1511, 1512, 1571, 1572 with or without HDB kits or TJ brackets.

**Vertical Housings** - Side jamb mount, accommodates two 1571 or two 1511 locks, providing 2400 or 3300 lbs of holding force.

### MODELS

#### Single Door Housing

- 30** 30" Lock housing
- 36** 36" Lock housing
- 40** 40" Lock housing
- 48** 48" Lock housing
- CH** Custom length.  
Specify exact length

#### Double Door Housing

- 60** 60" Lock housing
- 72** 72" Lock housing
- 84** 84" Lock housing
- 96** 96" Lock housing
- CH** Custom length.  
Specify exact length

#### Vertical Housing

- V82** For 84" high opening
- CV** Custom length.  
Specify exact length



### FINISH

#### Anodized Finishes

- V** Aluminum (standard)
- Y** Black anodized

#### Painted Finishes

- C** Brass powder coat
- X** Dark bronze powder coat

#### Plated Finishes (special order)

- P** Bright chrome
- Q** Dull chrome

## PRE-DRILLED & TAPPED HEADER BRACKET

### APPLICATION

Used in lieu of angle brackets, the Universal Header Bracket provides a faster mounting solution, saving time and labor costs for several EmLock models. Reduce potential for mis-sized and misaligned mounting holes, broken taps, removal of broken taps. Combined with interlocking. E-Z mount assembly, save up to a half days labor with the installation of 12 locks.

### FEATURES

- Solid 1" bar provides higher security and superior aesthetics.
- Machined wire chase provides concealed and secure wiring
- Multiple pre-drilled and tapped mounting holes to accommodate the use of several different locks on either 4" or 4.5" aluminum frames

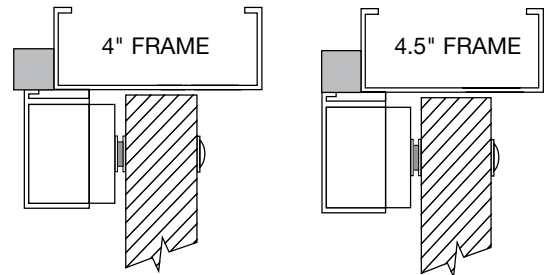
### FINISH

<b>V</b> 628 Aluminum (standard)	<b>P</b> 625 Bright Chrome
<b>C</b> 605 Bright Brass	<b>Q</b> 626 Dull Chrome
<b>D</b> 606 Dull Brass	<b>X</b> 313 Dark Bronze
	<b>Y</b> 335 Black



### MODELS

- UB11** 1" x 1" x 11" Universal Bracket for 1511, 1513, 1571, 1573, 1511S, 1511T, 1511DE, 1571DE
- UB12** 1" x 1" x 22". Universal Bracket for 1512 and 1572.



## SPACER BRACKET FOR CONCRETE FILLED FRAMES & ALUMINUM FRAME WITH BLADE STOP

### APPLICATION

Aluminum frames with blade stop - lowers EmLock below blade stop. Concrete filled hollow metal frames provides multiple points for concealed wire entry

### FEATURES

- Pre-drilled and tapped specifically for 1511, 1571, 1581 EmLock
- Machined wire chase provides multiple points for concealed wire entry from concrete filled frames.
- 628 Aluminum Anodized

### MODELS

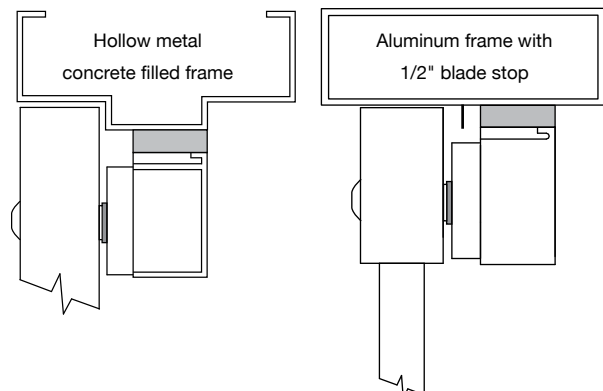
- UF11V** 1/2" x 1-1/2" x 11". Spacer Bracket for 1511, 1513, 1571, 1573, 1511S, 1511DE, 1571DE.
- UF12V** 1/2" x 1-1/2" x 22". Spacer Bracket for 1512 and 1572.
- UF81V** 1/2" x 1-1/4" x 8-3/4". Spacer Bracket for 1581.
- UF82V** 1/2" x 1-1/4" x 17-1/2". Spacer Bracket for 1582.



UF11V



UF81V



## FILLER PLATES



### APPLICATION

For extension of the stop to provide a proper mounting surface on the underside of the header See Figure 1B.





### MODELS





For 8-3/4" Single Emlock & Exit  
Check Models **1581, 1581DE**

PART #	A	x	B
<b>FP01</b>	1/8"	x	1-1/4"
<b>FP02</b>	1/4"	x	1-1/4"
<b>FP03</b>	3/8"	x	1-1/4"
 <b>FP04</b>	1/2"	x	1-1/4"
 <b>FP05</b>	5/8"	x	1-1/4"



For 17-1/2" (445mm) Double Emlock  
Model **1582**

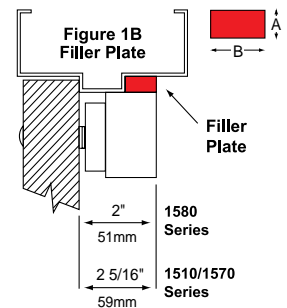
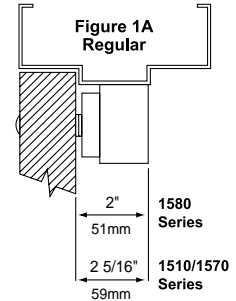
PART #	A	x	B
<b>FP30</b>	1/8"	x	1-1/4"
<b>FP31</b>	1/4"	x	1-1/4"
<b>FP32</b>	3/8"	x	1-1/4"
 <b>FP33</b>	1/2"	x	1-1/4"
 <b>FP34</b>	5/8"	x	1-1/4"

For 10"-11" Single Emlock & Exit  
Check  
Models **1511, 1513, 1571, 1573**  
**1511S, 1511T, 1511DEV, 1571DEV**

PART #	A	x	B
 <b>FP11</b>	1/8"	x	1-1/4"
 <b>FP12</b>	1/4"	x	1-1/4"
<b>FP13</b>	3/8"	x	1-1/4"
 <b>FP14</b>	1/2"	x	1-1/4"
 <b>FP15</b>	5/8"	x	1-1/4"

For 22" (559mm) Double Emlock  
Models **1512 / 1572**

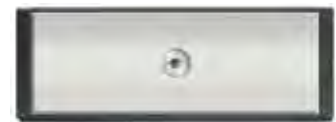
PART #	A	x	B
<b>FP21</b>	1/8"	x	1-1/4"
<b>FP22</b>	1/4"	x	1-1/4"
<b>FP23</b>	3/8"	x	1-1/4"
 <b>FP24</b>	1/2"	x	1-1/4"
 <b>FP25</b>	5/8"	x	1-1/4"



## ARMATURE MOUNTING PLATE

### APPLICATION

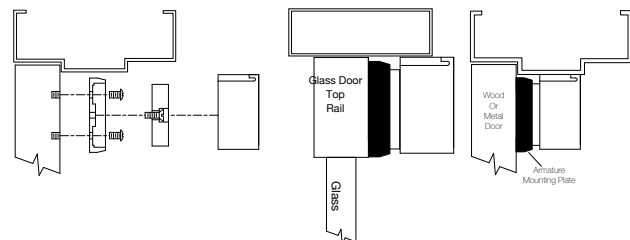
The AR Mounting plate provides a solution for mounting the EMLock® armature to the top rail of herculite, aluminum and glass, wood and hollow metal doors that do not permit the use of thru bolts.



### MODELS

**AR11Y** Armature mounting plate for **1511, 1571**  
335 Black Anodized (  
Specify two for models **1512, 1572**)

**AR11YD** Armature mounting plate with DPS for **1511, 1571**.  
335 Black Anodized  
(Specify two for models **1512, 1572**)





## ANGLE BRACKETS



### APPLICATION

Used as extension on shallow door frames to provide adequate mounting surface. See Figure 1C.







### MODELS



For 8-3/4" Single Emlock & Exit Check Models **1581, 1581DEV**

PART #	A	x	B
<b>AB01</b>	1"	x	1"
<b>AB02</b>	1"	x	1-1/2"
 <b>AB03</b>	1-1/2"	x	1-1/2"
 <b>AB04</b>	2"	x	1-1/2"



For 17-1/2" (445mm) Double Emlock Model **1582**

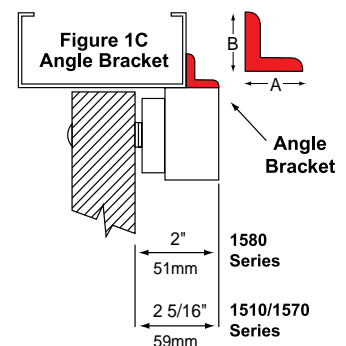
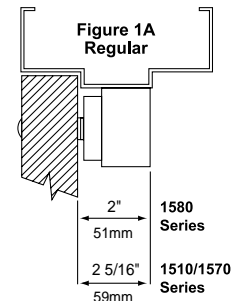
PART #	A	x	B
 <b>AB30</b>	1"	x	1"
 <b>AB31</b>	1"	x	1-1/2"
 <b>AB32</b>	1-1/2"	x	1-1/2"
 <b>AB33</b>	2"	x	1-1/2"

For 10"-11" Single Emlock & Exit Check Models **1511, 1513, 1571, 1573 1511S, 1511T, 1511DEV, 1571DEV**

PART #	A	x	B
<b>AB11</b>	1"	x	1"
<b>AB12</b>	1"	x	1-1/2"
 <b>AB13</b>	1-1/2"	x	1-1/2"
 <b>AB14</b>	2"	x	1-1/2"

For 22" (559mm) Double Emlock Models **1512 / 1572**

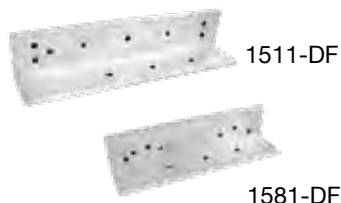
PART #	A	x	B
<b>AB21</b>	1"	x	1"
<b>AB22</b>	1"	x	1-1/2"
 <b>AB23</b>	1-1/2"	x	1-1/2"
 <b>AB24</b>	2"	x	1-1/2"



## REUSABLE HEAVY DUTY DRILL FIXTURE

### MODELS

**1511-DF** Heavy duty drill fixture for **1571** and **1511**  
**1581-DF** Heavy duty drill fixture for **1580**



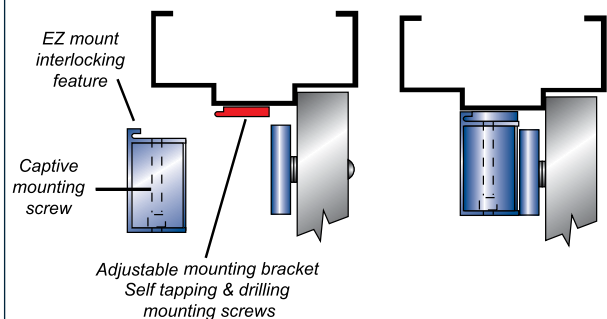
## BLIND NUT PLACEMENT TOOL

### MODELS

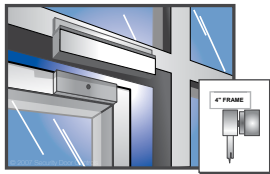
**BN-PT** Blind Nut Placement Tool  
**BN-50** Blind Nuts, 10/32, 50 Pack



## INTERLOCKING QUICK MOUNT ASSEMBLY

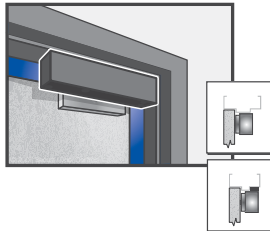


## TYPICAL DOOR APPLICATIONS



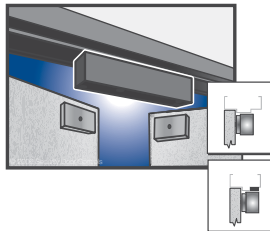
### 1511 1571 1581

- AB Angle bracket
- Aluminum frame
- Aluminum & glass door
- Push side mounting



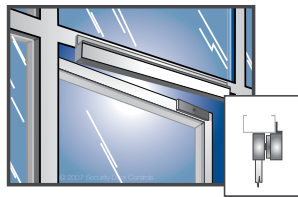
### 1511 1571 1581

- Hollow metal frame
- Wood/hollow metal door
- Push side mounting



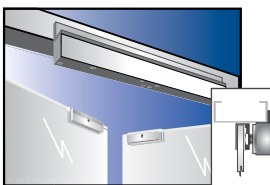
### 1513 1573

- Split armature
- Hollow metal frame
- Wood or hollow metal doors
- Push side mounting



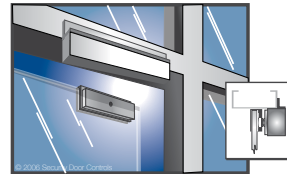
### 1511-(36) 1571-(36)

- Full width architectural housing
- Specify length (30", 36", 40", 48")
- Aluminum frame
- Aluminum & glass door
- Push side mounting



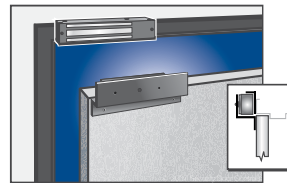
### 1512-HDB2 1572-HDB2 1582-HDB2

- HDB Glass door mounting kit
- AB series angle bracket
- Metal or aluminum frame
- Glass door without top rail
- Push side mounting



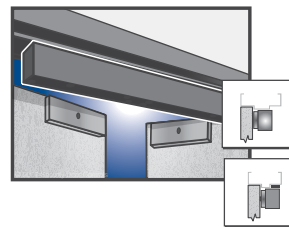
### 1511-HDB1 1571-HDB1 1581-HDB1

- Glass door mounting kit
- AB series angle brackets
- Metal or aluminum frame
- Glass door w/o top rail
- Push side mounting



### 1511-TJ1 1571-TJ1 1581-TJ81

- Top jamb mounting kit
- Hollow metal frame
- Wood or hollow metal door
- Pull side mounting



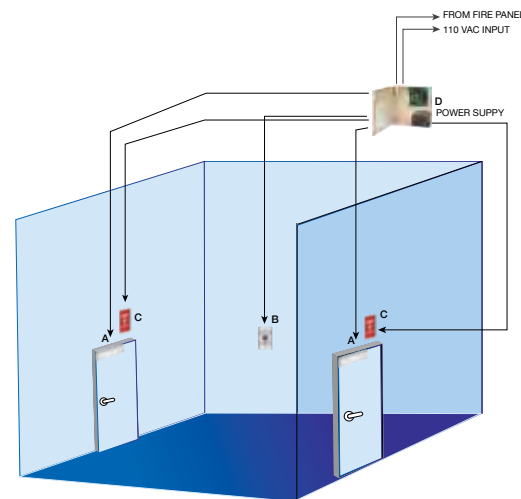
### 1512 1572 1582

- Hollow metal frame
- Wood or hollow metal doors
- Push side mounting



### 1512 1572 1582

- AB Angle bracket
- Aluminum frame
- Aluminum & glass doors
- Push side mounting



## COMMUNICATING BATHROOM EMLOCKS®

Single hospital bathroom shared by two patient rooms.

### SYSTEM OPERATION

Both doors must be closed to lock.

Activating **CB401A** (B) locks both doors.

Activating **CB401A** (B) again unlocks both doors.

When doors are locked, activating either **CB401B** (C) emergency release will unlock both doors.

Both doors will unlock automatically via signal from fire panel.

### SYSTEM COMPONENTS

- (A) Fail Safe locks with door position switch.  
Example: **1511-DPS**
- (B) **CB401A** System activation push switch.
- (C) **CB401B** Emergency release push switch to be mounted above each door. **CB701B** key switch optional.
- (D) **631RF-UR1** Power Supply with Fire Panel Tie-In and Communicating Bath Controller

