



# Behavioral Healthcare Door Opening Solutions

**ASSA ABLOY**  
Opening Solutions

The global leader in  
door opening solutions

# Case Study

## CHOC Children's Mental Health Inpatient Center | Orange, CA

The CHOC Children's Mental Health Inpatient Center is an inpatient psychiatric center exclusively dedicated to the treatment of children ages 3-17 with mental illness who are in immediate risk of hurting themselves or others. The 12,000-square foot, 18-bed facility is the only inpatient facility in Orange County that can treat patients younger than 12.

The Center's innovative floor plan was designed with guidance from national experts and incorporates elements of several exemplary programs observed by CHOC staff. It was built with two primary goals in mind: patient safety and creating an optimal healing environment. To that end, the facility incorporates safety features such as shatterproof glass, special high-density materials, doors that open one at a time, and many other measures including door hardware from ASSA ABLOY that support the unique requirements of the Inpatient Center.

*This project features products in this brochure including: doors, door trim, gaskets, double swing hinges, hinges with hospital tips, concealed closers and access control devices.*

*Architect:  
Haynes + Oakley*



FROM CURB TO CORE —

# Complete Door Opening Solutions for Behavioral Health



Behavioral health environments pose unique challenges. Treatment spaces vary with the type and severity of the behavioral condition, age, gender, and risk of harm. These same factors, along with others, also dictate the safety and security needs of patients, caregivers and visitors. But regardless of the space - an office setting, a floor of a hospital, or a complete facility - behavioral health environments require thoughtful and deliberate planning.

Door opening solutions are part of these critical environments, but it can be overwhelming to select the right combination of products to meet the unique needs of your behavioral health environment. Let ASSA ABLOY Door Security Solutions help.

In addition to the Door Security Solutions' offering, ASSA ABLOY sister companies can provide products to complete a full Curb to Core solution including Visitor Management Systems, Perimeter Fencing and Bollards, Automatic Sliding, Revolving, and ICU Doors and Identity Technologies.

**ARCHITECTURAL DOOR ACCESSORIES™**

Markar | McKinney | Pemko | Rockwood

**ELECTRONIC SECURITY HARDWARE**

HES | Securitron

ADAMS RITE | CECO DOOR | CORBIN RUSSWIN | CURRIES | NORTON | RIXSON | SARGENT





This brochure is intended to identify products that are best suited for the varying needs of behavioral healthcare environments. Many of the products featured have been submitted for testing by leading organizations in support of behavioral healthcare. However, risks are inherent in any behavioral health environment and vary based on the purpose, security needs and level of care of the facility. Always refer to local and state regulatory requirements for the legal standards of care that you are required to follow.

ASSA ABLOY is committed to providing solutions that meet the unique needs of behavioral healthcare environments. For the latest products, please contact our experts to discuss the needs of your facility.

#### The following leading organizations are recommended resources:

- **Facilities Guidelines Institute (FGI)** - [www.fgiguideelines.org](http://www.fgiguideelines.org)
- **National Association of Psychiatric Health Systems (NAPHS)** - [www.nabh.org/](http://www.nabh.org/)
- **New York State Office of Mental Health (OMH)** - [www.omh.ny.gov](http://www.omh.ny.gov)
- **Behavioral Health Facility Consulting (BHFC)** - [www.bhfcllc.com](http://www.bhfcllc.com)

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# Doors & Frames

## Patient Room Access Door

*The Patient Room Access Door has the security and dependability required for healthcare facilities, yet is beautiful enough to enhance a healing environment. Intended to give caretakers or authorized personnel access to patient's room in case of an emergency and maintain the security needed for the facility.*

CECO DOOR | CURRIES

PRAD



### Features

- First in the industry to achieve a UL 10C (positive pressure) 45 minute fire rating for this type of healthcare application
- Steel stiffened construction for added strength
- Eased edges for safety
- Standard top cases for security
- Astragal applied to face of door for privacy
- GREENGUARD Indoor Air Quality Certified

### Benefits

- Safety: provides authorized personnel access to patient rooms in case of an emergency or potential self harm
- Aesthetics: various standard and custom painted finishes available
- Function: main door operates as an in-swinging patient room door while the inner door opens to the corridor giving authorized personnel quick access to the patient room if main door is blocked or barricaded

# Doors & Frames

## Security SideLite

*The Security SideLite was developed to provide additional security. The assembly includes an out-swinging operable sidelight panel used as an anti-barricade solution and fits perfectly in modern behavioral health areas.*

CECO DOOR | CURRIES



### Features

- Fire rated for 45 minutes
- Cold rolled or galvanized steel doors, available in 18, 16 or 14 gauge
- Jamb depths available: 6-3/4" or larger
- Cold rolled or galvanized steel frame, available in 16 or 14 gauge
- GREENGUARD Indoor Air Quality Certified

### Benefits

- Safety and security: Out-swinging sidelight panel provides anti-barricade solution
- Safety and security: provides a visual barrier to potential intruders
- Security upgrade: retrofit bullet resistant panel installs into an existing SideLite frame

# Doors & Frames

## Hollow Metal Openings

*Hollow metal and stainless steel openings provide strong, durable and long lasting value to healthcare facilities. The natural strength of steel provides security, fire resistance sanitation, and more to the most demanding environments. Many options, designs and features are perfect for behavioral health facilities.*

CECO DOOR | CURRIES



### Features

- Cold rolled, galvanized or stainless steel 14, 16 or 18 gauge
- Heavy duty reinforcements for any standard or behavioral health hardware
- Many frame options available including sanitary hospital stops
- ADA, life safety and fire code compliant
- Many door options available including sloped doors, decorative embossed panels and factory pre-finish paint
- Fire ratings up to 3 hours
- GREENGUARD Indoor Air Quality Certified

### Benefits

- Strong and durable: openings meet or exceed ANSI A250.4 performance testing to withstand abusive environments
- Beautiful: Complement an aesthetically pleasing environment with factory pre-finish paint and embossed panels or with stainless steel openings
- Simple retrofit: Upgrade existing openings easily with standard and custom hinge locations and door sizing
- Minimize risk: Sloped door tops address common concerns in behavioral health environments



# Doors & Frames

## Integrated Door Assembly

*With pocketed options and inset exit devices, The RITE Door provides clean sight lines and clear opening widths for healthcare facilities. Armed with antimicrobial coatings, this integrated door solution is ideal for countless applications where vigilance in the fight against bacteria and mold is critical.*

ADAMS RITE

*The RITE Door®*



### Features

- Pre-installed hardware; ready to hang
- Top latching; no floor preparation required
- ADA, life safety and fire code compliant
- Exceeds ANSI/BHMA A156.32 Integrated Door Opening Assemblies - Grade 1 standards
- Meets or exceeds security and positive pressure tests
- Fire ratings up to 3 hours
- No maintenance service contract needed
- GREENGUARD Indoor Air Quality Certified

### Benefits

- Pre-installed hardware reduces field installation time and labor costs and eliminates fire inspection problems
- Continuous hinges with hospital tip ensure complete alignment between the door and frame, resulting in smooth maintenance-free operation under even the most demanding conditions
- Fiber-reinforced polymer bearings eliminate black dust and provide clean, quiet operation
- Factory installed low profile recessed exit bars keep openings clear for gurneys and wheelchairs
- Complete assembly adjustable to accommodate changes in opening



# Door Hardware

## Integrated Low Profile Trim

*This innovative, low profile trim integrates the lever and escutcheon, creating a superior design that is safer, easy to use and aesthetically pleasing. Its streamlined look and feel brings an elegant style to the most demanding environments and fits perfectly in modern behavioral health areas.*

CORBIN RUSSWIN | SARGENT

BHSS | BHW



### Features

- Aesthetic, modern design with integrated lever and escutcheon (patented)
- Uses the ANSI/BHMA Grade 1 mortise lock
- Available in 30+ functions including Asylum/Institutional (ANSI F30), Institutional Privacy (ANSI F26) and Privacy (ANSI F22, F19 and F02) as well as electrified options
- Stainless steel finishes standard; optional antimicrobial coating
- Matching behavioral health thumbturn
- ADA compliant

### Benefits

- Strong and durable: lock exceeds ANSI/BHMA Grade 1 requirements to withstand abusive environments
- Robust, low profile trim is ideal for any application where carts or gurneys pass through doorways
- Versatile: 30+ functions, including electrified and behavioral health specific; can be used on many opening types
- Minimize risk: helps contribute to patient safety with recessed, cupped lever and tapered cylinder collar and thumbturn

# Door Hardware

## Lever Trim

*This lever trim is available with an array of functions to be used on virtually any opening in healthcare environments. Perfect for tough environments, the sloping surfaces and overlapping rose and lever address safety concerns while providing impressive strength and reliability.*

CORBIN RUSSWIN | SARGENT

BLSS | BHL



### Features

- Overlapping lever and rose construction
- Uses the ANSI/BHMA Grade 1 mortise lock
- Available in 20+ functions, including Asylum/Institutional (ANSI F30) and Institutional Privacy (ANSI F26) and four electrified options
- Stainless steel finishes standard; optional antimicrobial coating
- Matching behavioral health thumbturn
- ADA compliant

### Benefits

- Strong and durable: lock exceeds ANSI/BHMA Grade 1 requirements to withstand abusive environments
- Flexible: 20+ functions, including electrified; can be used on many opening types
- Minimize risk: Sloped surfaces and overlapping rose with lever address common concerns in behavioral health environments
- Simple retrofit: Upgrade existing openings easily; uses standard mortise door prep

# Door Hardware

## Push/Pull Paddle Trim

*This heavy-duty push/pull hardware is flexible, easy to use and aesthetically pleasing. Beautiful and durable for healing environments, this trim offers multiple mounting options and easy operation, even when your hands aren't free.*

CORBIN RUSSWIN | SARGENT

HPSK | ALP



### Features

- Aesthetic and functional design for use on mortise or bored locks
- Available in 40+ functions and a full range of finishes
- Electrified options provide connection to access control
- Optional antimicrobial coating
- “Push” and “Pull” identification available for paddles
- ADA compliant

### Benefits

- Beautiful: sleek, aesthetic form aligns with evidence-based design approach to healing environments
- Strong and durable: ANSI/BHMA Grade 1 locks hold up to abusive environments
- Flexible: multiple mounting orientations allow customized openings and various options make for easy retrofit applications
- Functional: paddle shape and location facilitate hands free door operation



# Door Hardware

## Detention Knob

*This knob trim is designed for safety and security by eliminating catch points with a tapered knob recessed into the rose. Available as sectional trim, the anti-harm knob features recessed finger holes for a better grip and is ideal for psychiatric or detention facilities.*

CORBIN RUSSWIN | SARGENT

HSS | BHD



### Features

- Uses ANSI/BHMA Grade 1 mortise lock
- Available in 30+ functions
- Overlapping knob and rose construction, with sloped surfaces throughout
- Stainless steel finishes standard; optional antimicrobial coating
- Matching behavioral health thumbturn available

### Benefits

- Strong and durable: lock exceeds ANSI/BHMA Grade 1 requirements to withstand abusive environments
- Flexible: 30+ functions; can be used on many opening types
- Functional: unique design minimizes risk and contributes to patient safety

# Door Hardware

## Recessed Flush Pull

*The simple design of the Rockwood recessed flush door pull features fasteners which are concealed within the stainless steel cup to prevent patient tampering. The pull provides a sleek look and is easy to clean.*

### ARCHITECTURAL DOOR ACCESSORIES™

Markar | McKinney | Pemko | Rockwood

Rockwood 94C



### Features

- Fasteners concealed in cup
- Flush mount design
- Stainless steel construction
- Optional antimicrobial coating
- Tamper-proof TORX security fasteners are optional
- Ideal for Patient Room Access Door

### Benefits

- Concealed fasteners prevent patient tampering
- Smooth flush design presents no pinch points
- Ideal for use on sliding doors, closets, and many other openings
- Durable stainless steel material for healthcare environments

# Door Hardware

## Roller Latch with Strike

*The durable Rockwood roller latch with strike is easily installed with just four screws. An adjustable solid nylon roller delivers silent operation.*

ARCHITECTURAL DOOR ACCESSORIES™

Markar | McKinney | Pemko | Rockwood

Rockwood 592



### Features

- Solid nylon roller for durable silent operation
- Simple adjustment for roller projection
- Used in conjunction with a variety of strikes

### Benefits

- Provides a safe latching system
- Quiet operation
- Provides patient privacy without a locking function



# Door Hardware

## Emergency Door Stop

*The Emergency Door Stop expertly converts double acting doors hung on center pivots, such as the McKinney Jamb Mount Pivot Set, to single acting doors. The latch is easily released with a single finger for quick access in an emergency situation.*

### ARCHITECTURAL DOOR ACCESSORIES™

Markar | McKinney | Pemko | Rockwood

#### McKinney DS-6



### Features

- Emergency release allows door to swing open in the opposite direction
- Latch releases with a touch of the finger; second touch of lever returns latch to original position
- Allows center hung or 1/8" inset doors to be opened in both directions without damaging the frame
- Used to convert double acting doors hung on center pivots to single acting doors
- Recommended for use with McKinney EP-J5 Jamb Mount Pivot Set

### Benefits

- Emergency release allows door to swing open, thwarting barricade efforts
- Latch release and return are intuitive and easy to use
- Reduces maintenance costs by preventing damage to the door frame
- Stretch budget by converting existing double acting doors

# Door Accessories

## Heavy Duty Door Stops

*These flame and vandal resistant heavy duty door stops are well-suited for long term use in demanding environments and prevent damage to walls and doors. The vandal resistant design prevents patient tampering.*

ARCHITECTURAL DOOR ACCESSORIES™

Markar | McKinney | Pemko | Rockwood

Rockwood 467-RKW / 468-RKW



### Features

- Flame resistant molded rubber bumper
- Prevents door from hitting the wall
- Vandal resistant
- No exposed fasteners
- Suitable for floor or wall mounting

### Benefits

- Reduces costly wall and door damage caused by banging doors
- Resists patient tampering
- Withstands abuse due to thick rubber bumper and screw length in floor and bumper

# Door Accessories

## Wrought Wall Stops

*By combining durable bumpers, concealed fasteners and an eye-catching sloped design these door stops serve as a decorative and functional addition to any opening. The design prevents damage to doors and hardware while minimizing the risk of patient tampering.*

ARCHITECTURAL DOOR ACCESSORIES™

Markar | McKinney | Pemko | Rockwood

Rockwood 406 | 409



### Features

- Bumper made of resilient rubber
- Sloped design with no pinch points
- Concealed mounting
- Back plate prevents damage to wall
- Available in stainless steel
- Tamper-proof TORX security fasteners optional

### Benefits

- Resists patient tampering
- Reduces costly wall and door damage caused by banging doors



# Door Accessories

## Perimeter Gaskets

*Pemko soffit-mounted perimeter gaskets are tear resistant and, by design, interact with the high quality aluminum retainer to firmly secure the gasket to the opening for a behavioral health environment.*

### ARCHITECTURAL DOOR ACCESSORIES™

Markar | McKinney | Pemko | Rockwood

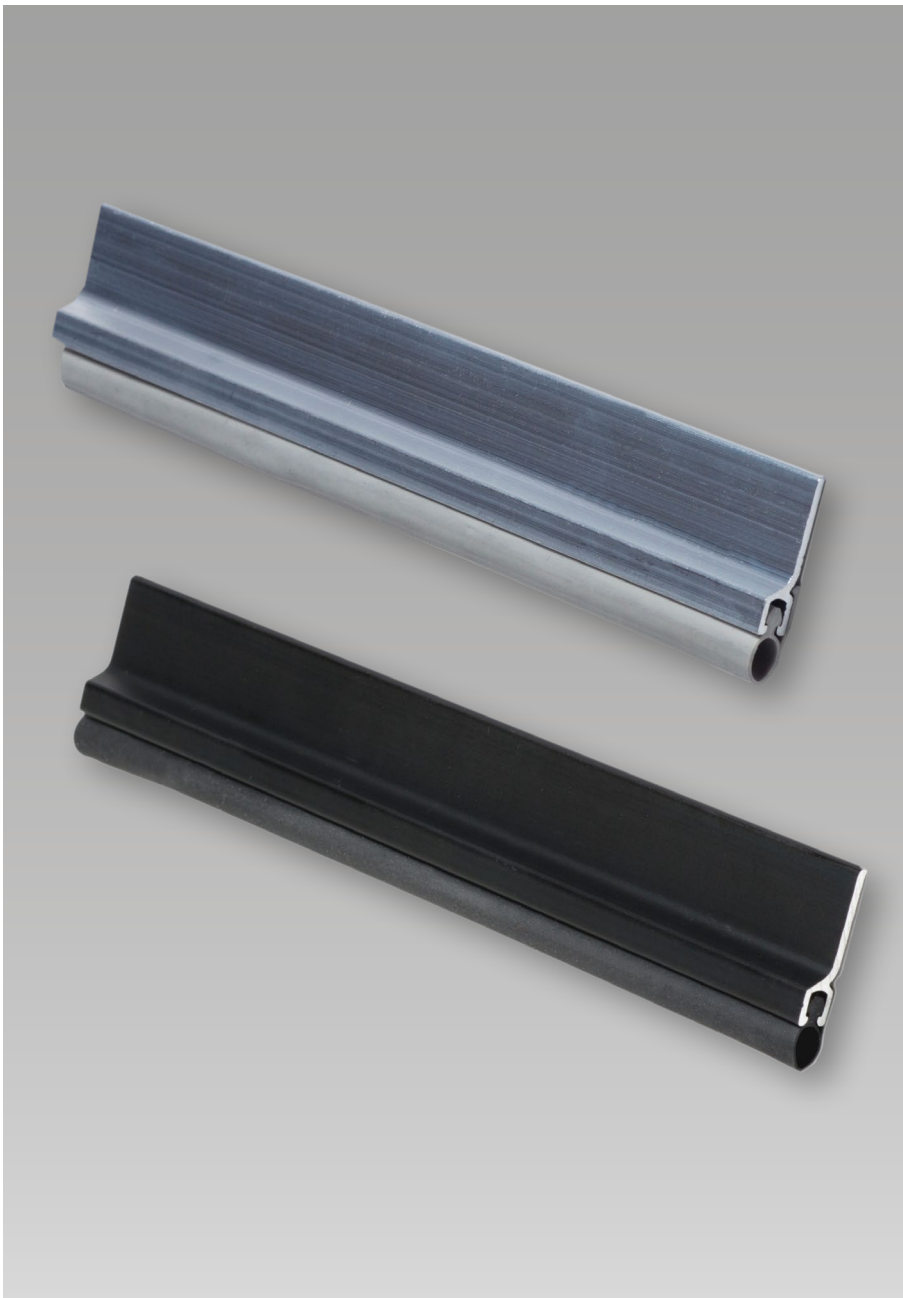
*Pemko 290\_V, 303\_PK, 303\_V, 316\_V, 2891\_V*

### Features

- Options include Eco-V® ("V") or PemkoPrene® ("PK") insert
- Tamper-proof TORX security fasteners optional
- UL 10C listed as a category J gasket
- GREENGUARD Gold Certified Pemko Perimeter Gaskets include:
  - Pemko 290AV with Eco-V® insert
  - Pemko 303APK PemkoPrene® insert
  - Pemko 303AV with Eco-V® insert
  - Pemko 316AV with Eco-V® insert
  - Pemko 2891AV with Eco-V® insert

### Benefits

- High tear resistant gasket material
- Resistant against patient tampering
- Fire rated up to 3 hours depending on door construction
- Contributes to an energy efficient opening
- Option with PemkoPrene® ("PK") is ideal for exterior applications



# Door Accessories

## Adhesive Gaskets - Perforated

*Pemko adhesive gaskets seal the gaps around a door to significantly reduce the infiltration of air, light, smoke, sound, dust and debris. Adhesive gaskets contribute to a quieter and healthier environment for patients and staff while increasing the overall energy efficiency of the opening.*

### ARCHITECTURAL DOOR ACCESSORIES™

Markar | McKinney | Pemko | Rockwood

*Pemko P44\_ and P88\_*



### Features

- High quality silicone gasket with acrylic adhesive backing
- Pressure sensitive adhesive strip forms a long lasting bond with the frame
- Material is perforated every .385 inches
- Impervious to fungus and mildew
- Suggested ASSA ABLOY Pemko Adhesive Gaskets include:
  - Pemko P44 Silicone "V" Seal
  - Pemko P88 Silicone Bulb Seal

### Benefits

- Easy installation; no fasteners required
- Low maintenance and easy to clean
- Perforations prevent against large tear segments
- Contributes to an energy efficient opening for interior or exterior applications

# Hinges & Pivots

## Double Swing Hinge

*The Double Swing Hinge with Emergency Release Stop enables users to quickly open a door in an emergency situation. A double swing continuous hinge is combined with an emergency release stop to provide additional safety features that are easy to use and help minimize risk.*

### ARCHITECTURAL DOOR ACCESSORIES™

Markar | McKinney | Pemko | Rockwood

Markar DSH1000



### Features

- Unique 100° swing design allows the door to swing wide in either direction
- Continuous hinge design spans the full height of the door
- Hospital tips and TORX security fasteners are standard
- ADA and CMS compliant
- Markar DSH1000 Double Swing Pin and Barrel Hinge used in conjunction with Emergency Release Stop (ERS) feature. Choose ERS with quick open flush bolt or ERSMP multi-point latch.
- Markar DSH1000 Double Swing Pin and Barrel Hinge; electrified option (4/8/12 wire) also available

### Benefits

- Wide opening in either direction to allow access for equipment and gurneys
- Emergency Release Stop provides quick access in an emergency situation
- Adds privacy while maintaining safety and security
- Continuous hinges provide proper alignment and weight distribution while extending the life of the door
- TORX security fasteners prevent tampering



# Hinges & Pivots

## Hinges with Hospital Tips

*This simple modification to the knuckle or cap of the hinge provides a safer environment for patients. The smooth angled surface can be applied to a wide range of hinges including electrified versions. The Anti-Ligature Package (ALP) and Stainless Steel Hospital Tip (ALSS-HT) are available on the Full Surface Center Pivot.*

### ARCHITECTURAL DOOR ACCESSORIES™

Markar | McKinney | Pemko | Rockwood

*Markar, McKinney & Pemko hinges*



### Features

- Knuckle or cap of the hinge is modified by angling the top surface
- Stainless steel available on many models
- Can be electrified for use with electronic locks and access control systems
- Optional antimicrobial coating
- Hospital Tip (HT) option available on a wide variety of Markar Continuous Pin & Barrel Hinges, McKinney Hinges, and Pemko Continuous Geared Hinges
- Pemko Full Surface Center Pivot with Anti-Ligature Package (ALP) available with Stainless Steel Hospital Tip (ALSS-HT)

### Benefits

- Smooth tapered tips provide a safer environment for healthcare environments
- For retrofit openings, replace butt hinges with Full Surface Center Pivot geared hinge
- Full surface hinges enable adjustment of the door inside the opening
- Anti-Ligature Package (ALP) reduces ligature points across the top surface of the hinge

# Closing Devices

## Floor Closer

*The Rixson 51 series shallow depth floor closers are recommended for low to moderate traffic interior doors, where traditional floor closer depth is too great for slab construction. The concealed nature provides aesthetic and mechanical advantages making it an ideal solution for door control and support.*

RIXSON

51 Series

### Features

- Fully concealed, single acting, handed door closer for use with top pivot hinge
- Available for interior doors
- Accommodates door weights up to 250 lbs. and widths up to 4'0"
- Fire rated models available

### Benefits

- Fully concealed closers have no readily visible or accessible components
- The weight of the door is supported by bottom arm and floor closer
- Reduces stress on the frame and eliminates door sag



# Closing Devices

## Overhead Concealed Closer

*Rixson Overhead Concealed closers offer an aesthetically appealing way to control a door. The Rixson 700 series are designed for single acting, center hung doors. For double acting doors, use Model 800 with adjustable closing speed for each swing direction.*

RIXSON

700 series / 800 series



### Features

- Closer concealed in the header
- Model 700: Single-acting, handed closer concealed in door frame header. For use with bottom pivot
- Model 800: Double-acting, non-handed closer concealed in door frame header. For use with bottom pivot
- Available for interior or exterior doors in several packages pending door/frame material
- Accommodates door weights up to 200 lbs.

### Benefits

- Concealed for minimal appearance and maximized aesthetics
- Increased tamper resistance; mechanism not exposed

# Closing Devices

## Overhead Concealed Closer

*The tamper resistant security and minimalist aesthetic of SARGENT concealed door closers are a proven door control solution for a large variety of today's behavioral health facility doors.*

SARGENT

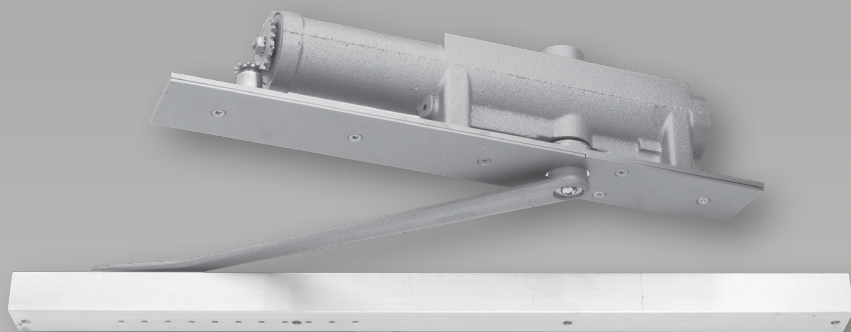
268 & 269 Series

### Features

- Closer body and track concealed at all times with arm only visible when door is open
- Adjustable closing force designed for light to heavy doors, both interior and exterior
- Certifications include ANSI Grade 1, UL/cUL listed for fire rated doors, UL 10C listed for positive pressure fire test, and complies with ADA and ANSI standards

### Benefits

- Concealment of closer deters tampering
- One piece cast iron body and forged steel arm provide long-term durability
- Valved to allow closer to absorb abusive forces, preventing damage to doors and frames
- Beyond the concealed closers' minimal visibility, multiple finish options are available to complement various openings' aesthetics





# Access Control Devices

## Intelligent Magnalocks®

*The sleek design and increased holding strength of the Securitron Intelligent Magnalocks are ideal for healthcare applications where aesthetics and security are required. Easily installed with all-in-one integration options, they help create a safe, healing environment without being obtrusive.*

ELECTRONIC SECURITY HARDWARE  
HES | Securitron

*Securitron M680E EcoMag*



### Features

- With 1,200 lbs. holding force, the Securitron M680E EcoMag offers 80% less energy consumption than previous M680 models
- All-in-one integration options such as PIR Request to Exit, BondSTAT, DPS, and door prop sensing reduce the number of devices to install and secure the opening
- New strike plate mounting template ensures quick and accurate installation
- Covered by MagnaCare® lifetime replacement, no-fault, no questions asked warranty

### Benefits

- Decreased energy consumption allows for use of smaller backup batteries and decreased operating costs
- Prevent the loss of property and/or peril to patients
- Sleek, low profile design and nine architectural finishes complement aesthetically demanding applications

# Access Control Devices

## Intelligent Magnalock

*The Securitron iMXDa helps prevent peril to patients as well as protect against property loss or theft. Ideal for dementia wards, behavioral health facilities and hospitals, an attempted exit initiates an alarm and a brief delay before the lock releases, giving personnel time to respond before an exit occurs.*

ELECTRONIC SECURITY HARDWARE  
HES | Securitron

*Securitron iMXDa*



### Features

- 1,200 lbs. holding force Magnalock
- Advanced intelligent microprocessors provide alarm options and trainable door movement detection to minimize false alarms
- Permits free egress in emergency situations
- Covered by MagnaCare® lifetime replacement, no-fault, no questions asked warranty

### Benefits

- Installation requires no alteration or replacement of existing fire-rated or non-fire-rated latching hardware
- Configurable alarm settings
- Automatic dual-voltage – no field adjustment required

# Access Control Devices

## Cabinets and Drawer Locks

*Secure cabinets and drawers while using existing ID badges to gain access with the HES K100 Series Wireless Cabinet Lock. Local wireless communication with an Aperio® hub enables real-time communication and access control.*

### ELECTRONIC SECURITY HARDWARE

HES | Securitron

#### HES K100



### Features

- Wireless Aperio technology
- Static strength 150 lbs.
- Non-handed
- Works with cabinet doors and lockers with door thickness of 1/16" to 1-1/2"
- Automatic latch relock when door is closed
- LEDs indicate valid/invalid entries:  
Red Amber or Green Amber

### Benefits

- Integrates with existing access control systems and ID badges
- Supports HID 125 kHz Prox or 13.56 MHz iCLASS® contactless credentials
- Quick, easy wireless deployments
- Fully encrypted AES-128 wireless communication

ASSA ABLOY is the global leader in door opening solutions, dedicated to satisfying end-user needs for security, safety and convenience

**ASSA ABLOY**  
Opening Solutions

Not sure which products are right for you?

For more information visit [www.assaabloydss.com/healthcare](http://www.assaabloydss.com/healthcare) or contact a Door Security Solutions sales representative.

Visit [www.assaabloydss.com](http://www.assaabloydss.com) to find a consultant near you.

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