



PEMKO
ANTI-BARRICADE RESCUE HARDWARE

PEMKO
ASSA ABLOY

Experience a safer
and more open world

Pemko
Anti-Barricade Rescue Hardware

ASSA ABLOY designs and manufactures products to improve safety and mitigate risk in medical, behavioral health, and assisted living environments. Applications include patient rooms, patient bathrooms and cross corridor bathrooms.

Anti-barricade rescue hardware is the optimum solution to provide a safe way to rescue someone in the event the door is barricaded and not able to open. In an emergency the facility staff will be able to swing the door in the opposite direction, minimizing the risk of patients harming themselves.

Solutions



Pemko Double Swing Pin & Barrel Hinge DSH1000



Pemko Emergency Release Stop ERS



Pemko Multi-Point Emergency Release Stop ERSMP

Applications



MEDICAL FACILITIES



BEHAVIORAL HEALTH FACILITIES



ASSISTED LIVING FACILITIES

Standards

ANSI/BHMA: A156.26 Grade 1-300 Certified (DSH1000)

ADA Compliance:
- ICC/ANSI A117.1-2009 Barrier Free Requirements (DSH1000)
- ADAAG-2010

CMS Compliance:
- Eliminating additional ligature points ensures compliance for reimbursement through Centers for Medicare and Medicaid Services

Refer to the New York State Office of Mental Health (OMH) Patient Safety Standards for current product compliance.

BHMA CERTIFIED

Rescue Hardware Operation



1. Door barricaded by a person or object that prevents the door from opening





2. A key is used to unlock the Emergency Release Stop from the locked position

Rescue Hardware Operation



3. Emergency Release Stop opens to allow the door to swing in the opposite direction



4. Door opens outward in the opposite direction to allow quick and easy access to the patient

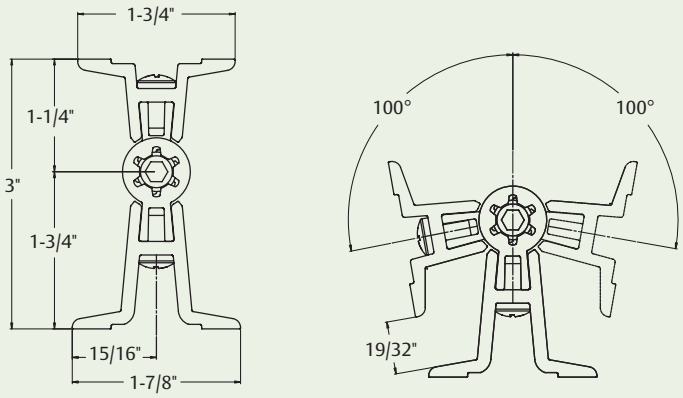
Double Swing Hinge

ASSA ABLOY double swing hinges allow the door to swing in both directions with ease. The robust design supports heavy doors that may experience abuse.

Key Feature	Benefit
Opens 100° in Either Direction	Suites with Pemko Emergency Release Stop to create an anti-barricade opening
Built-In Stop	Prevents finger pinching
Spans Opening Height	Eliminates hinge side sight line
Security Torx Fasteners	Prevents removal of hinge
Electrified SER Module	Provides quick access to concealed wire transfer to power electrified hardware
1/8" Hinge Frame and Door Leaf Offset	Eliminates ligature points across top of hinge
Gang Hole Pattern	Supports door weight with large grouping of mounting holes at top of hinge

Key Feature Highlight

Opens 100° in Either Direction: Door opens 100° in the typical direction. Disengaging the Emergency Release Stop allows the door to open 100° in the opposite direction providing access to the barricaded side of the opening.

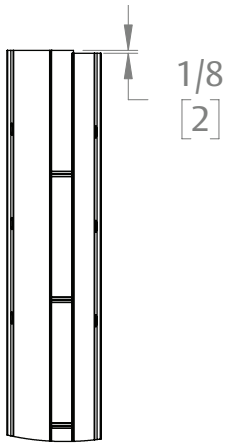


DSH1000

Double Swing Hinge

Key Feature Highlight

1/8" Hinge Frame and Door Leaf Offset: Top of hinge frame leaf is offset from top of door hinge leaf. Top of hinge frame leaf is mounted tightly up against the top of the opening to help eliminate ligature points at top of opening.

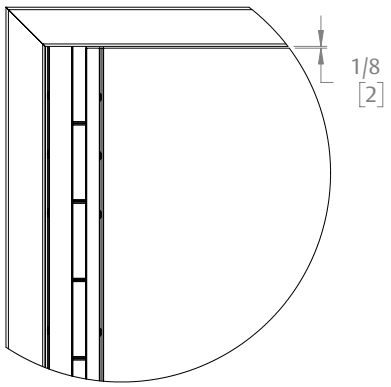


DSH1000

DSH1000 CONSTRUCTION

Key Feature	Benefit
Pin & Barrel Design	Continuous hinge design reduces stress on frame
6063-T6 Aluminum Alloy/Temper	Strong, heavy-duty and durable grade aluminum
¼" Diameter Stainless Steel Rod	Large diameter rod supports large and heavy doors
UHMW-PE Medical Bearings	High quality bearing improves life and overall hinge function

Supports door weights up to 600 lbs



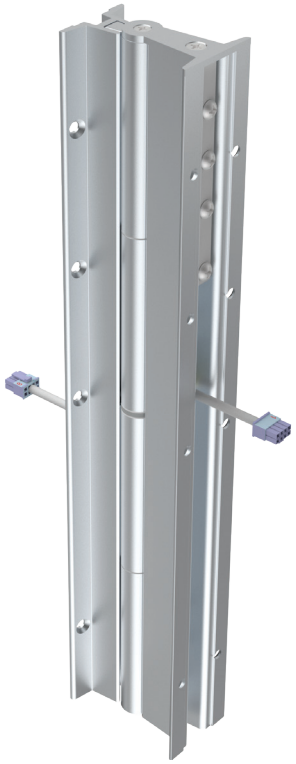
DSH1000 - In Opening

Note: Order form recommended, refer to Pemko How to Order Guide for Pemko and Markar Hinges

Double Swing Hinge with Serviceable Electrical Module (SER)

Removable electrified SER module with Molex connectors with Electrolynx® for quick and easy access to wires without removing door from frame

- Supplied with cable leads
  - 48" (door)
  - 180" (frame)
- Top mounted – Standard Location
  - Custom location available upon request (top of hinge to centerline of prep)
- Capable of carrying 6 amps continuous or 16 amps-in-rush at 24 volts for 820 milliseconds



DSH1000SER

ELECTRICAL MODIFICATIONS

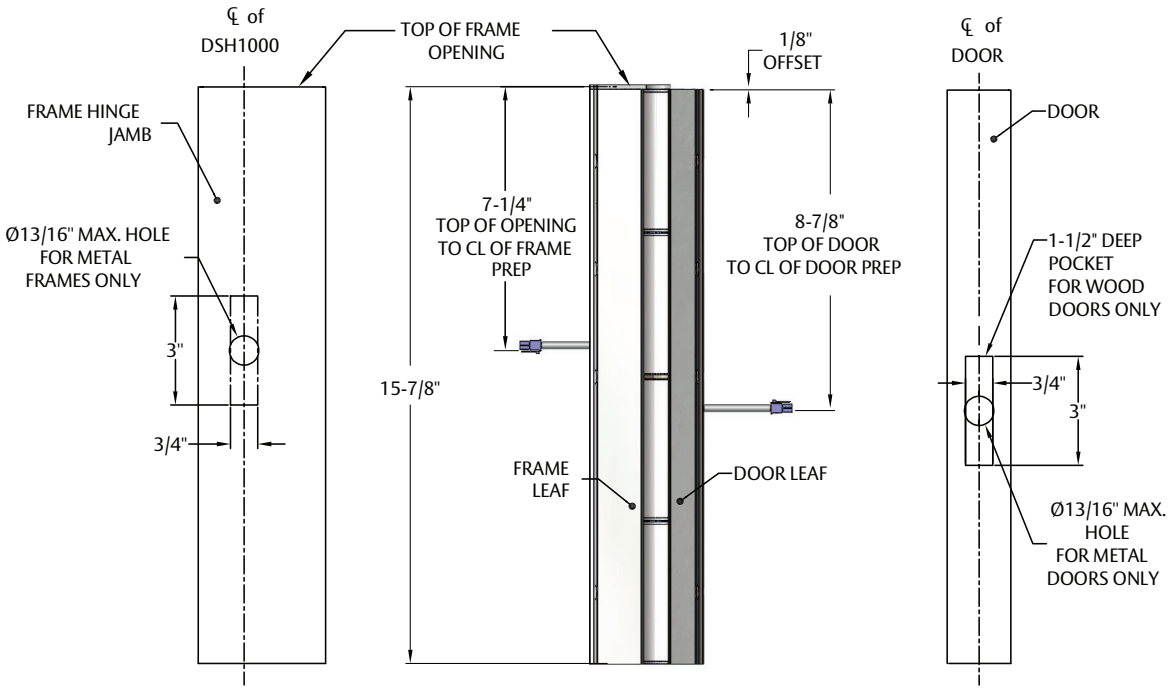
Serviceable/Removable (SER) Module - 4 Wire	SER4
Serviceable/Removable (SER) Module - 8 Wire	SER8
Serviceable/Removable (SER) Module - 12 Wire	SER12

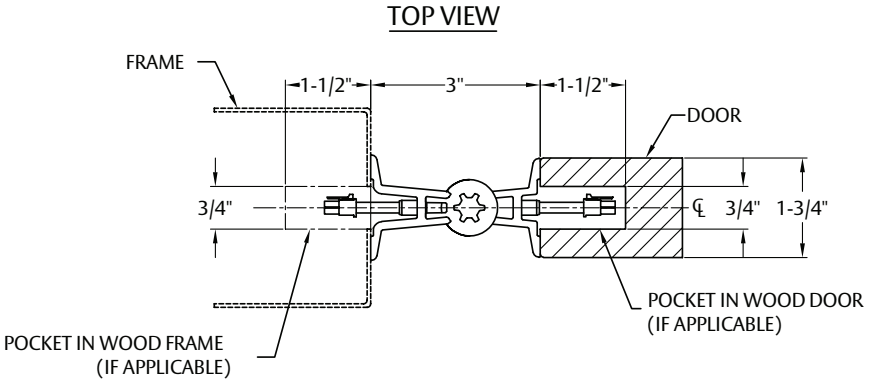
BHMA CERTIFIED

Double Swing Hinge with Serviceable Electrical Module (SER)

DSH1000 SER Prep

(standard location shown below)





How to Order Double Swing Hinge

DSH1000

Two ways to order

1. Purchase order with Hinge Model, Length, Finish, and completed Markar/Pemko DSH_ x ERS_ order form (recommended)
2. Purchase order with Hinge Model, Length, Finish, Electrical Modification, Location Top to Centerline, Fasteners, Frame Height, Door Undercut

Information Required with Order Form or Purchase Order

Model	Length[1]	Finish	Electrical Modification	Location Top to Centerline[2]	Fasteners	Frame Height	Door Undercut
DSH1000	84"	C: BHMA 628 Clear Anodized	"Blank" : None		"Blank": Metal x Metal		
	120"		SER8		WW: Wood x Wood		
			SER12				
	96"	CF: Custom Finish	SER4		MW: Metal x Wood		

Notes:
1. Length will be determined from frame height and undercut dimensions
2. Provide location or indicate "standard location". Standard location is top of hinge.

Examples:
DSH1000-84C x 84" Frame x 1/4" Undercut
DSH1000-96C x SER12 x Standard Location x 95.5" Frame x 3/8" Undercut
DSH1000-84C with completed order form attached
DSH1000-96C x SER4 x 42" Top to CL x WW x 94" Frame x 1/4" Undercut

Note: Order form recommended, refer to Pemko How to Order Guide for Pemko and Markar Hinges.

Emergency Release Stop

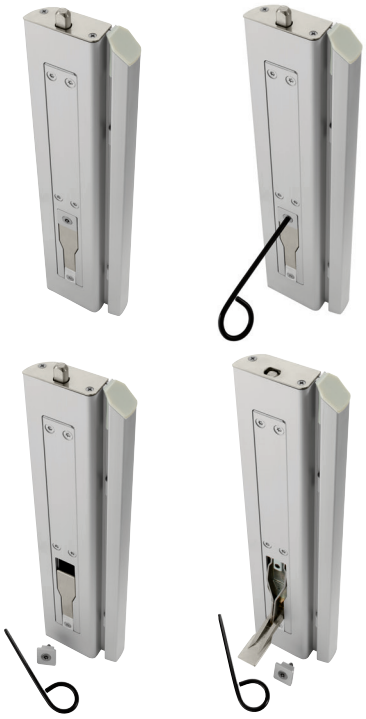
The Pemko Emergency Release Stop is used in combination with the double swing hinge to create a complete Anti-Barricade System.

In an emergency, the stop is discharged to allow the door to swing in the opposite direction. A torx security key is provided to release the stop from the locked position.

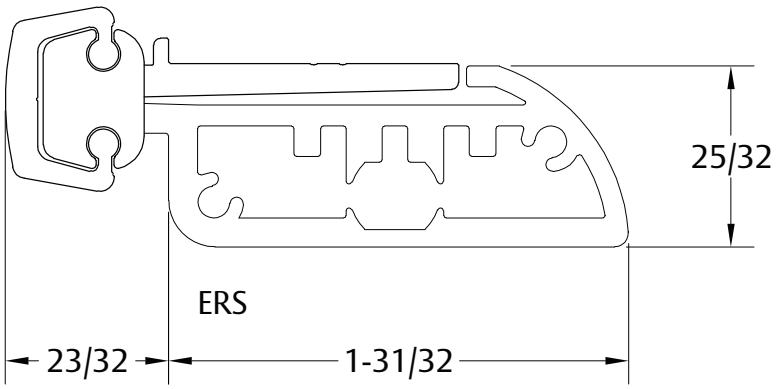
ERS: Top Flush Bolt locking into frame header

ERSMP: Multi-Point Latching into frame rabbet

Key Feature	Benefit
Swing Away Door Stop	Suites with double swing hinge to create anti-barricade opening
Hospital Tip	Eliminates ligature point at top of hinge
Notch Cut-Outs	Allows ERS to clear a variety of face mounted door hardware trim
Security Torx Fasteners	Prevents removal of Emergency Release Stop



ERS



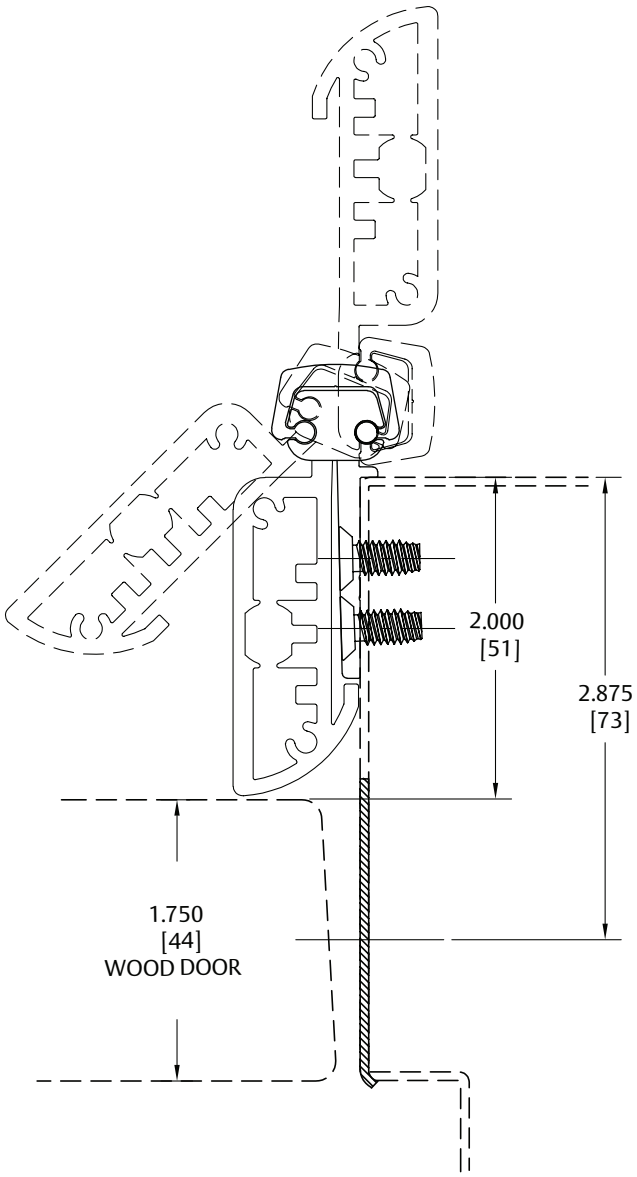


ERSMP

Emergency Release Stop

ERS & ERSMP CONSTRUCTION

Key Feature	Benefit
Geared Hinge Design	Distributes load stress uniformly along length of ERS
6063-T6 Aluminum Alloy/Temper	Strong, heavy-duty, durable grade aluminum
Polymer Thrust Bearing	Eliminates premature wear and supports more weight
ERS Notch	Allows for easier access to clear the lock trim
Torx Key	Unlocks the ERS to swing away



Emergency Release Stop

How to Order Emergency Release Stop

Two ways to order

1. Purchase order with ERS Model, Length, Finish, and completed Markar/Pemko DSH_ x ERS_ order form (recommended)
2. Purchase order with ERS Model, Length, Finish, Hospital Tips, Handing, Lock Hardware & Trim, Frame Height, Door Undercut Top to Centerline, Fasteners, Frame Height, Door Undercut

Information Required with Order Form or Purchase Order

Model	Profile	Length[1]	Finish	Handing	Locking Hardware & Trim & Location Top to Centerline[7]	Frame Height	Door Undercut
ERS	"Blank" : Flush Bolt	84"	C: BHMA 628 Clear Anodized				
	MP: Multi-Point	96"	CF: Custom Finish				
		120"					

Notes:

1. Length will be determined from frame height and undercut dimensions.
2. Notch type is specified by factory based on locking hardware and trim.
3. ERSMP only available with one size notch (NBP).
4. Lock hardware trim over 7" in length requires a non-standard notch (NPXXL only); additional charges will apply.
5. Locking hardware and trim and location top to centerline are required.

Examples:

ERS84C x HT x RH x 83-7/8" Frame x 3/8" Undercut
ERSMP96C x HT x LH x NOTCH x Lock Hardware & Trim x 95" Frame x 1/4" Undercut
ERS120C with completed order form attached

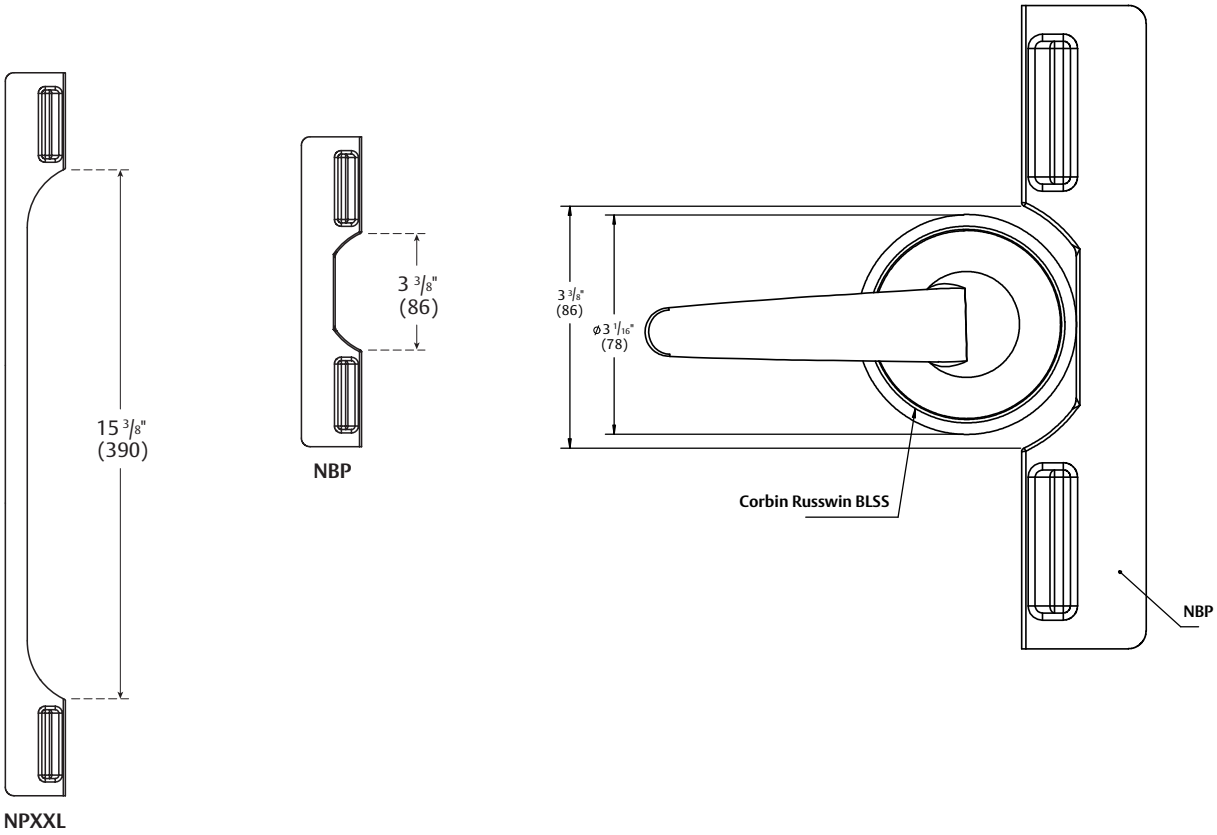
Note: Order form recommended, refer to Pemko How to Order Guide for Pemko and Markar Hinges.

Emergency Release Stop Notches

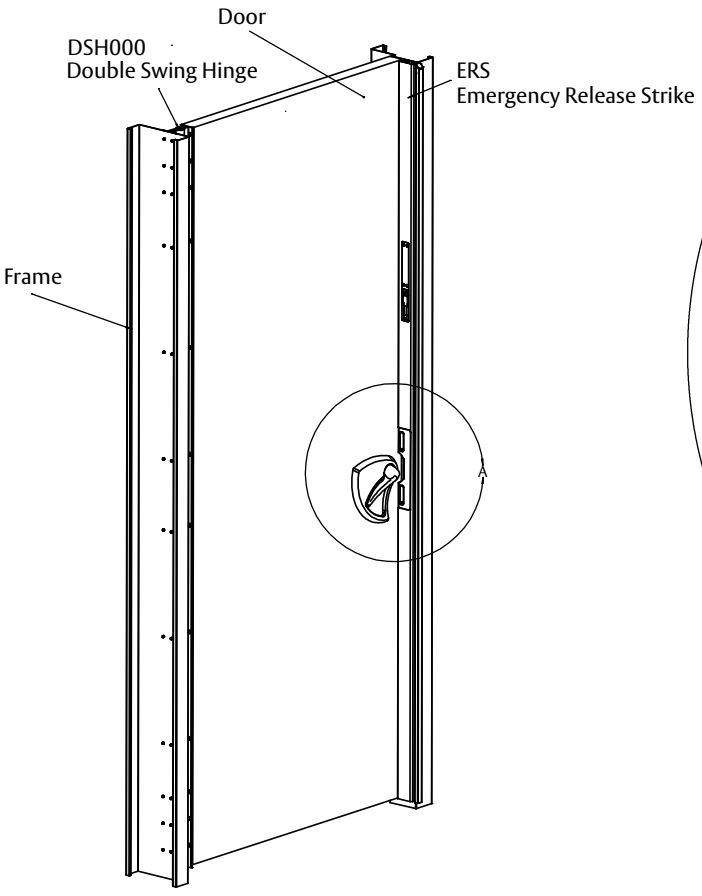
When the ERS/ERSMP stop is released from the locked position, the stop rotates out of the opening. To allow the stop to rotate freely from obstruction, a notch is required to clear the hardware trim on the door face. The ERS notches are designed to clear a variety of door hardware trim.

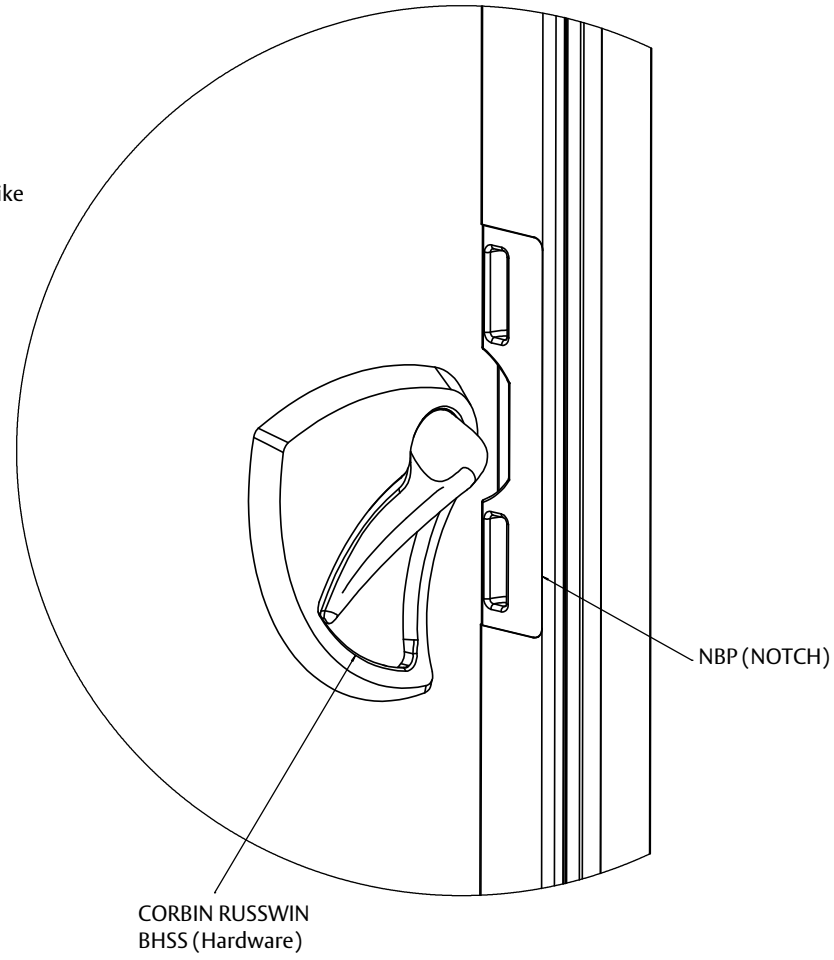
ERS: NPXXL and NBP

ERSMP: NBP only



Emergency Release Stop Notches





Emergency Release Stop Frame Preparation

Frame preparation to accept the locking mechanism of the ERS and ERSMP.

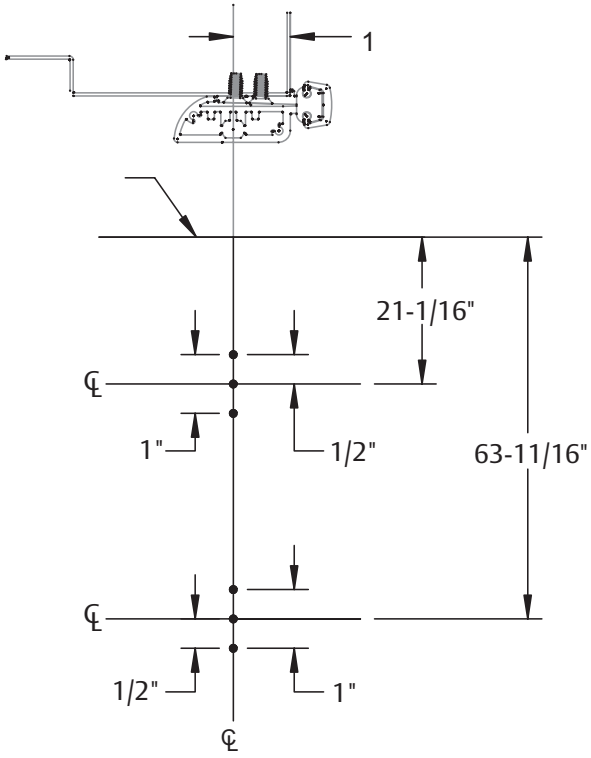
ERS Frame Preparation: 3/8" hole in header (recommend to prep in field)

ERSMP Frame Preparation: Factory or In-field prepping

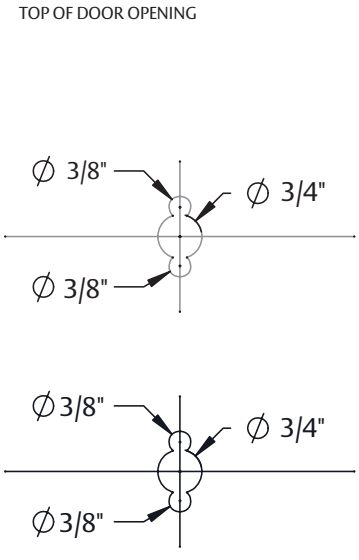
If field prepping:

- Using a 1/8" drill bit, drill pilot holes at the six locations shown in “Frame Preparation”
- As shown in the Drill Size diagram below, enlarge each hole using a 3/8" drill bit
- Enlarge the two center holes, using a 3/4" drill bit
- Each of the two preps should resembles the two preps shown in the Drill Size diagram

Template is for ERSMP only



Frame Preparation



Drill Size

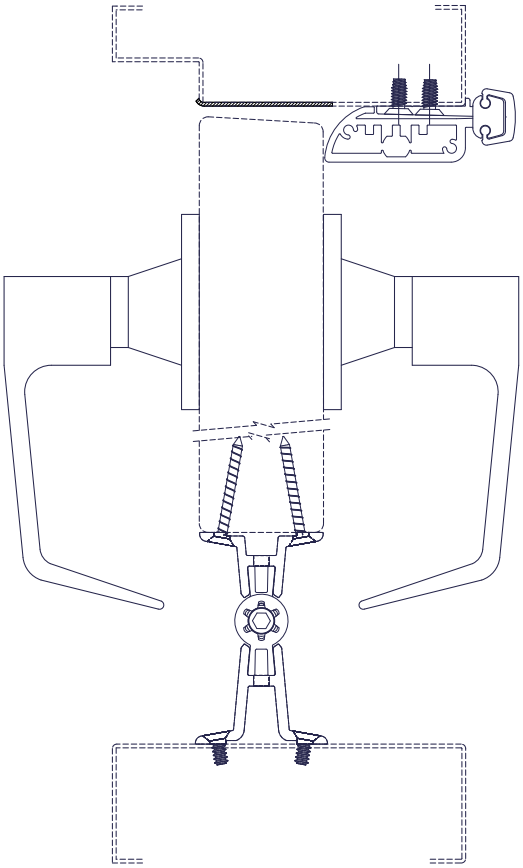
Door Handing

The Emergency Release Stop will match the handing of the door. When the hinge is on the left and the door opens inward, the ERS will be left hand. When the hinge is on the right and the door opens inward, the ERS will be right hand.

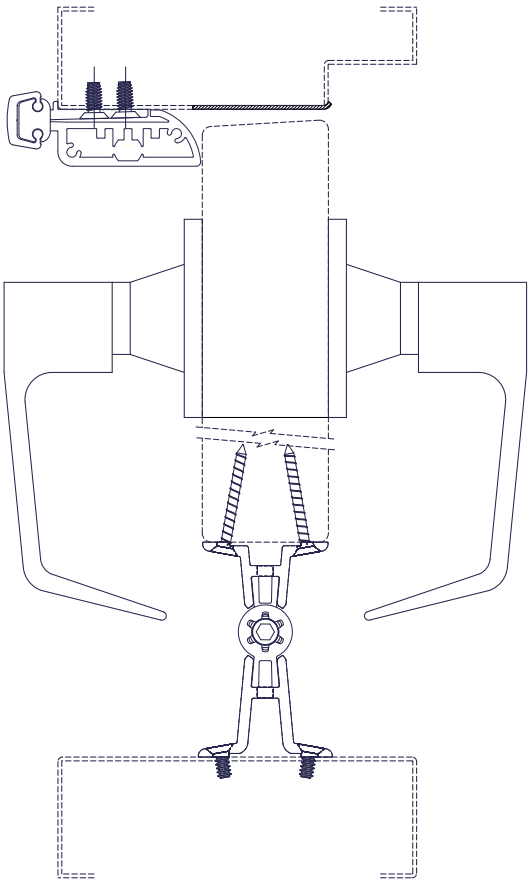
DSH1000: Non-handed

ERS & ERSMP: Handed with hospital tip on top only

LEFT HAND
Hinges on Left
Opens Inward



RIGHT HAND
Hinges on Right
Opens Inward



Hinge Clearance and Door Edges

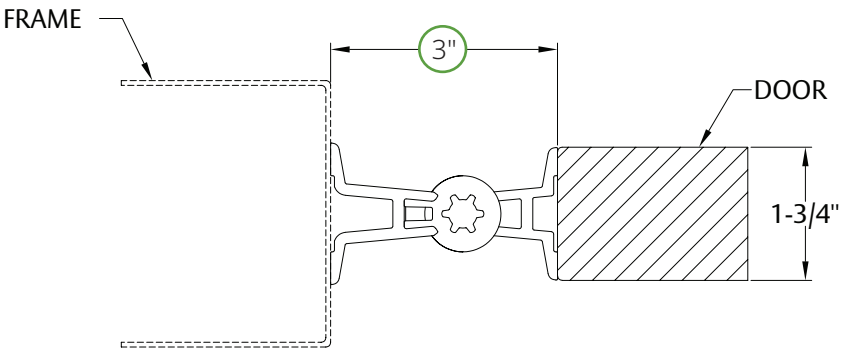
Hinge Clearance

Hinge clearance used to calculate door width ordering size
DSH1000: 3" hinge clearance
Lock-side: 1/8" minimum clearance
Net door width = Opening width – 3 1/8"

Example: 36" – 3 1/8" = 32 7/8" net door width

Door Edges (recommendation)

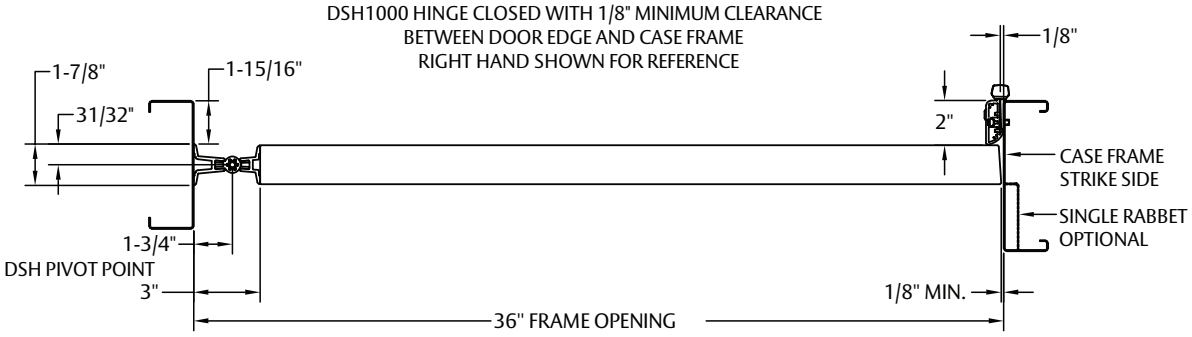
Hinge side: Square edge
Lock-side: Beveled edge



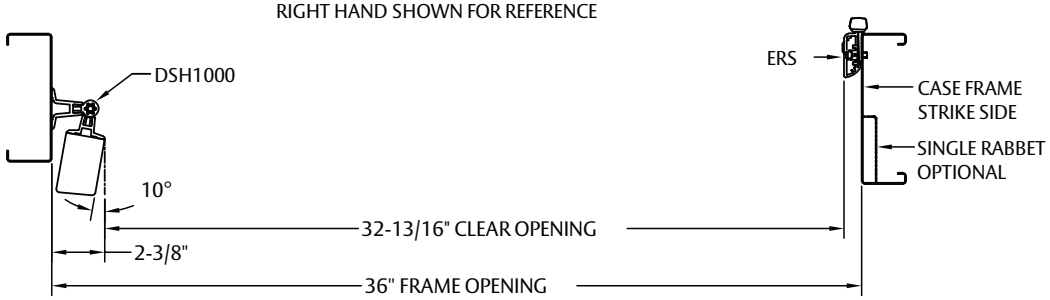
Clear Opening Widths

DSH1000

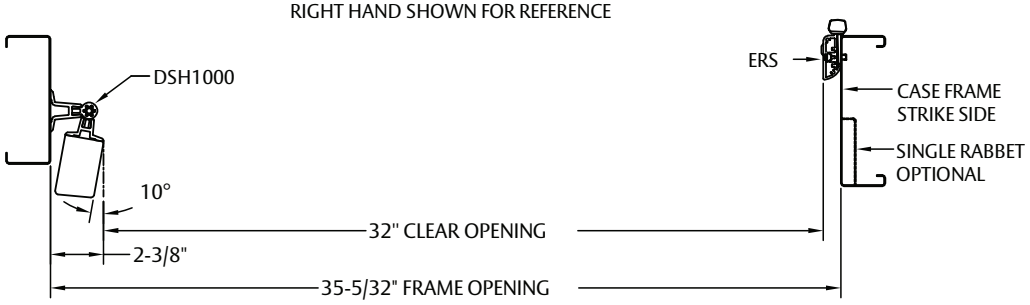
DSH1000 HINGE CLOSED WITH 1/8" MINIMUM CLEARANCE
BETWEEN DOOR EDGE AND CASE FRAME
RIGHT HAND SHOWN FOR REFERENCE



DSH1000 HINGE OPEN 100° WITH 32-7/8" CLEARANCE
BETWEEN DOOR FACE AND ERS STOP
RIGHT HAND SHOWN FOR REFERENCE



DSH1000 HINGE OPEN 100° WITH 32" CLEARANCE
BETWEEN DOOR FACE AND ERS STOP
RIGHT HAND SHOWN FOR REFERENCE

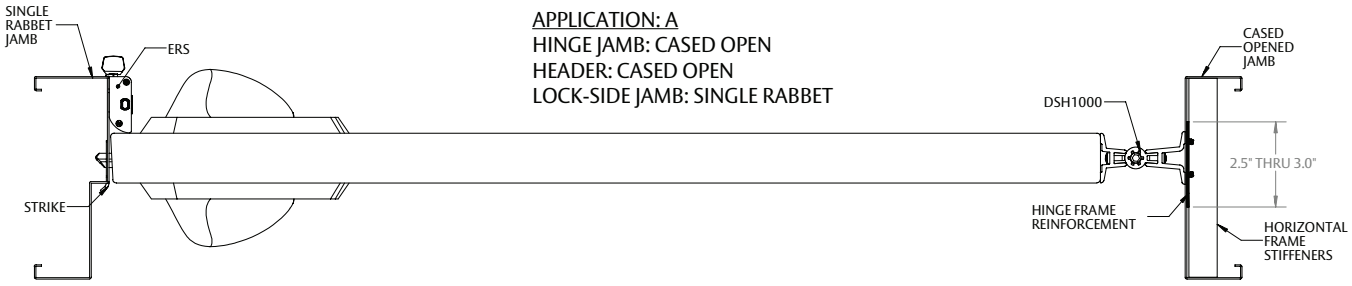


Frame Applications & Strike

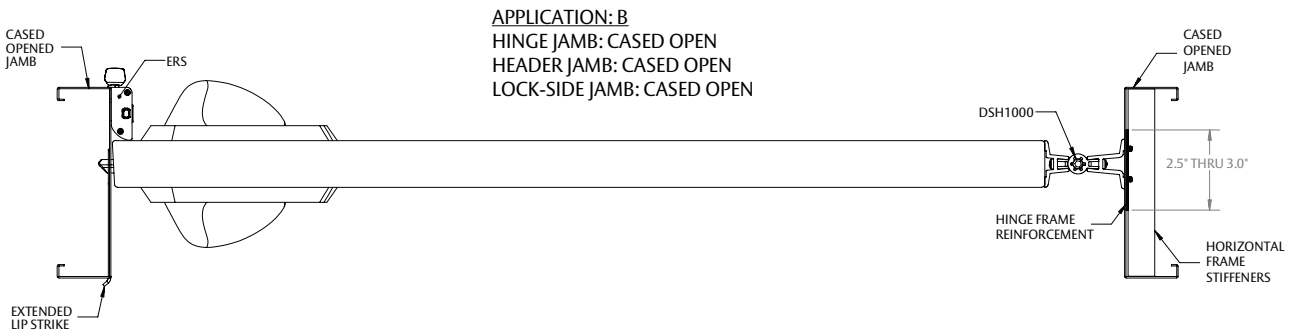
Frame Applications:

Two types of frame applications are recommend for use with the double swing hinge and emergency release stop.

Application A: Eliminates the need for an extended lip strike
(strike mounted on soffit)
Hinge Jamb & Header: Cased open
Lock-side Jamb: Single rabbet



Application B: Extended lip strike is needed
Hinge Jamb, Lock-side Jamb & Header: Cased open



Strike:

Standard hardware strike is used to work with locking hardware

***** No Double Lip Strike is needed for the DSH x ERS Anti-Barricade Solution*****

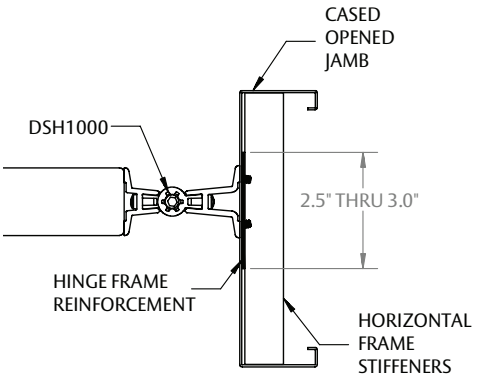
Frame Reinforcement

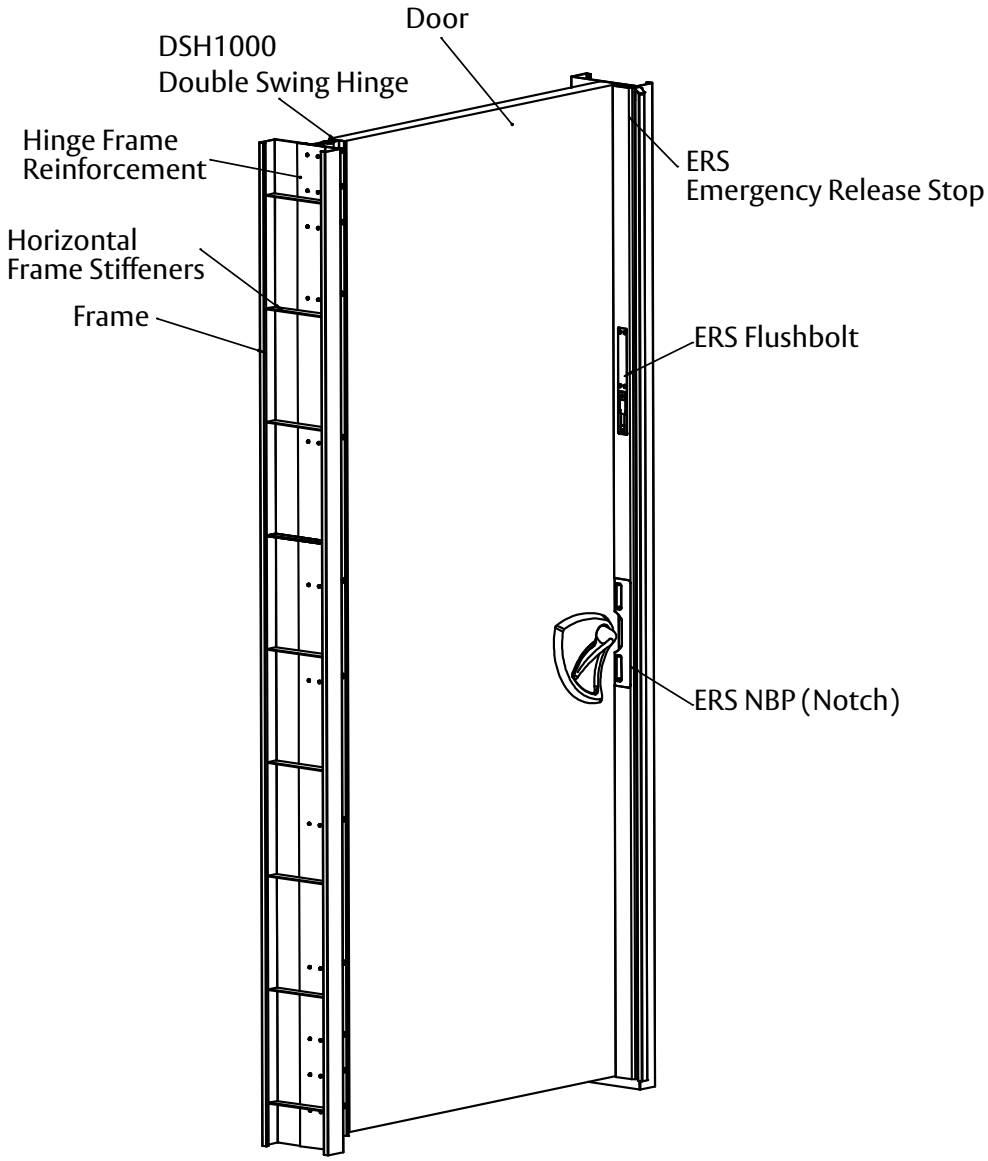
Frame Applications:

Horizontal frame stiffeners are recommended to keep the hinge mounting surface flat when the door and hinge are mounted. Vertical hinge reinforcement is recommended to prevent the hinge mounting screws from pulling out of the frame.

Note:

Follow the frame manufacturer's instructions for proper frame reinforcement





Compatible Rockwood Products

ASSA ABLOY offers a variety of ligature-resistant products that are free from sharp edges or potential catch points. These products, like those from Rockwood below, often feature rounded surfaces and low profiles in order to secure rooms in behavioral health environments without presenting potential safety hazards.

Rockwood 467-RKW and 468-RKW
Heavy Duty Door Stops



467-RKW



468-RKW

Rockwood 406 Convex Wrought Wall Stop,
Rockwood 409 Concave Wrought Wall Stop



406



409

Rockwood 94C Recessed Flush Pull



94C

Rockwood 592 Roller Latch



592

Compatible Pemko Products

ASSA ABLOY offers a variety of ligature-resistant products that are free from sharp edges or potential catch points. These products, like those from Pemko below, often feature rounded surfaces and low profiles in order to secure rooms in behavioral health environments without presenting potential safety hazards.

Pemko P44 Perforated Adhesive Gasket



P44

Pemko P88 Perforated Adhesive Gasket



P88

Pemko 290_V Perimeter Gasket with Vinyl Insert



290_V

Pemko 303_PK Perimeter Gasket with Thermal Plastic Elastomer Insert



303_PK

Pemko 303_V Perimeter Gasket with Vinyl Insert



303_V

Pemko 316_V Perimeter Gasket with Vinyl Insert



316_V

Pemko 2891_V Perimeter Gasket with Vinyl Insert



2891_V

The ASSA ABLOY Group is the global leader in access solutions. Every day, we help billions of people experience a more open world.

ASSA ABLOY Opening Solutions leads the development within door openings and products for access solutions in homes, businesses and institutions. Our offering includes doors, frames, door and window hardware, mechanical and smart locks, access control and service.

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ASSA ABLOY



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