

SUPPLIED WITH TWO 5/16-18 X 2.5 FLAT HEAD, PHILIPS DRIVE MACHINE SCREWS AND TWO 5/16 FINISH WASHERS.

**EXCEPTION** - 1191E-8-1/2 HAS 1/4-20 TAPPED HOLES AND IS SUPPLIED WITHOUT ANY HARDWARE.

TRIMCO PART #	A MAT'L DIA	B CEN. TO CEN.	C CLEARANCE	D OFFSET	E RADIUS
1191E-1	.75	8.00	2.50	3.88	.75
1191E-2	.75	10.00	2.50	3.88	.75
1191E-3	1.00	10.00	2.50	4.38	1.00
1191E-4	1.00	12.00	2.50	4.38	1.00
1191E-5	1.00	18.00	2.50	4.38	1.00
1191E-4J	1.25	12.00	2.88	5.25	1.25
1191E-5J	1.25	18.00	2.88	5.25	1.25
1191E-8-1/2	1.00	8.50	1.88	4.00	1.00

NOTE: This template is provided for use only on the job for which is was requested. Trimco reserves the right to make design changes without notice. Trimco will not be responsible for errors or damage caused by the use of out-of-date templates.

DATE

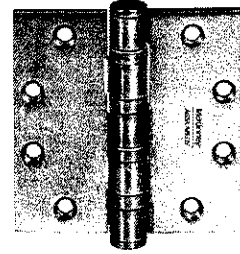
3/23/06

## Five Knuckle Heavy Weight Full Mortise Series

Recommended for use on high frequency and/or heavy wood or metal doors in schools, hospitals or other public buildings where heavy traffic is experienced.

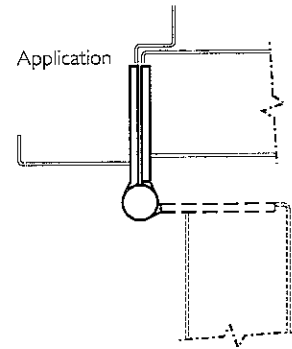
- Heavy weight hinges should be used on all extra heavy doors or those exposed to high frequency use
- T4A3386- Stainless steel base or available in brass base material polished
- T4A3786- Steel base material
- For Beveled Edge, where doors are beveled on hinge side, specify T4A4386 or T4A4786
- For available finishes see page 29

T4A3386  
T4A3786



Note: 8" x 6" and 8" x 8" have six bearings. Specify T6B3386 or T6B3786

No.	ANSI Cross Reference	Base Material	Weight
T4A3386	A5111	Stainless	HVY
T4A3386	A2111	Brass	HVY
T4A3786	A8111	Steel	HVY



### Specifications

Inches	mm	Gauge	No. of Holes	Fasteners	
				Machine	Wood
4½ x 4	114.3 x 101.6	.180	8	½ x 12-24	1¼ x 12
4½ x 4½	114.3 x 114.3	.180	8	½ x 12-24	1¼ x 12
5 x 4½	127 x 114.3	.190	8	½ x 12-24	1¼ x 12
5 x 5*	127 x 127	.190	8	½ x 12-24	1¼ x 12
6 x 5*	152.4 x 127	.203	8	½ x ¼-24	1¼ x 14
6 x 6*	152.4 x 152.4	.203	10	½ x ¼-20	1½ x 14
8 x 6*	203.2 x 125.4	.203	16	½ x ¼-20	1½ x 14
8 x 8*	203.2 x 203.2	.203	16	½ x ¼-20	1½ x 14

\* Not available in brass base material

### Options:

Code	Description
NRP	Non-Removable Pin
T4B	Ball Bearing
TCA	Concealed Bearing
RC	Round Corner - ¼" radius furnished unless specified otherwise
HT	Hospital Tip
BT	Ball Tip
ST	Steeple Tip
SSF	Safety Stud Feature
RB	Raised Barrel*
QC	ElectroLynx® Hinge - 2, 4, 6, 8, 10 or 12 wire available
CC	Concealed Circuit - 2, 4, 6, 8, 10 or 12 wire available
CC-18	Concealed Circuit - 2, 4, 6, 8 or 10 wire available (2-18AWG wires and the remainder 28AWG wires)
MM	Magnetic Monitoring

\* Refer to page SP-3 for Raised Barrel

## Concealed, Tamper Resistant, Flexible Power and Data Transfer

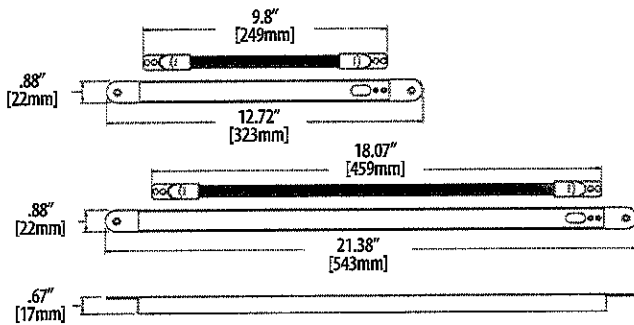
The EPT Electric Power Transfer provides concealed, secure power and data conduit between a frame and door, transmitting power to electrified locks, exit bars and more. Its durable stamped steel housing and flexible spring steel conduit make the EPT suitable for most types of swinging doors with butt or continuous hinges or pivot hinges up to 3/4" offset. The EPT-SC accommodates swing-clear hinges and most pivot hinges\*.

### PRODUCT FEATURES

- Installs in the door and frame edges
- Flexible steel shield protects wire bundles up to 5/16" thick
- Works with almost any type butt hinge, continuous hinges and some pivot hinges.
- Rounded mounting tabs

### PRODUCT OPTIONS

- EPT for standard hinges and pivot hinges less than 3/4" offset
- EPTL for extended length
- EPT-SC for swing clear hinges or pivot hinges with larger offset\*
- EL- Models are ElectroLynx compatible including 12 - 22 AWG wires, ElectroLynx connectors



### MODELS Part # Description

#### Base Model (EPT Only)

<b>EPT</b> Electrical Power Transfer	<b>EPT-SC</b> EPT - for Swing Clear and Pivot Hinges*	<b>EPTL</b> EPT, Long
---	--	--------------------------

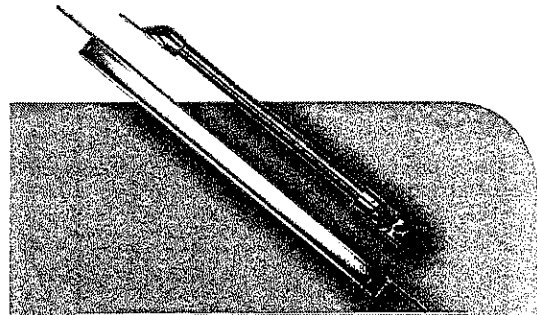
#### ElectroLynx-Compatible - includes 12 - 22 AWG wires, ElectroLynx connectors

<b>EL-EPT</b> ElectroLynx EPT, US32D finish	<b>EL-EPT-SC</b> ElectroLynx EPT for Swing Clear and Pivot Hinges*	<b>EL-EPTL</b> ElectroLynx EPT, Long
--	---	---

\*Not for use with center pivot doors

# EPT

## Electrical Power Transfer



#### Specifications:

• UL Listed  
• CANES-104 Listed  
• UL 644 Listed (EL-EPT)  
• UL 644 Listed (EL-EPTL)  
• UL 644 Listed (EL-EPT-SC)  
• UL 644 Listed (EL-EPTL-SC)  
• ANSI/SDF-BHMA  
• A250.13 (1-7/16 PSF)  
• Windstorm Listed

**Dimensions:**  
• Door Housing: 2-3/4" x 7-7/8" x 1/4" D  
• EPT Housing: 2-3/4" x 7-7/8" x 1/4" D  
• Interflex Shield: 5/8" x 1/2" x 1/4" D

#### Shipping Weight:

**EPT**  
0.75lb. (0.34 Kg.)  
**EPTL**  
1.20lb. (0.54 Kg.)  
**EPT-SC**  
1.25lb. (0.57 Kg.)  
**EL-EPT**  
0.75lb. (0.34 Kg.)  
**EL-EPTL**  
1.20lb. (0.54 Kg.)  
**EL-EPT-SC**  
1.25lb. (0.57 Kg.)

#### Finishes:

US26/625 - Bright  
Chrome-plated



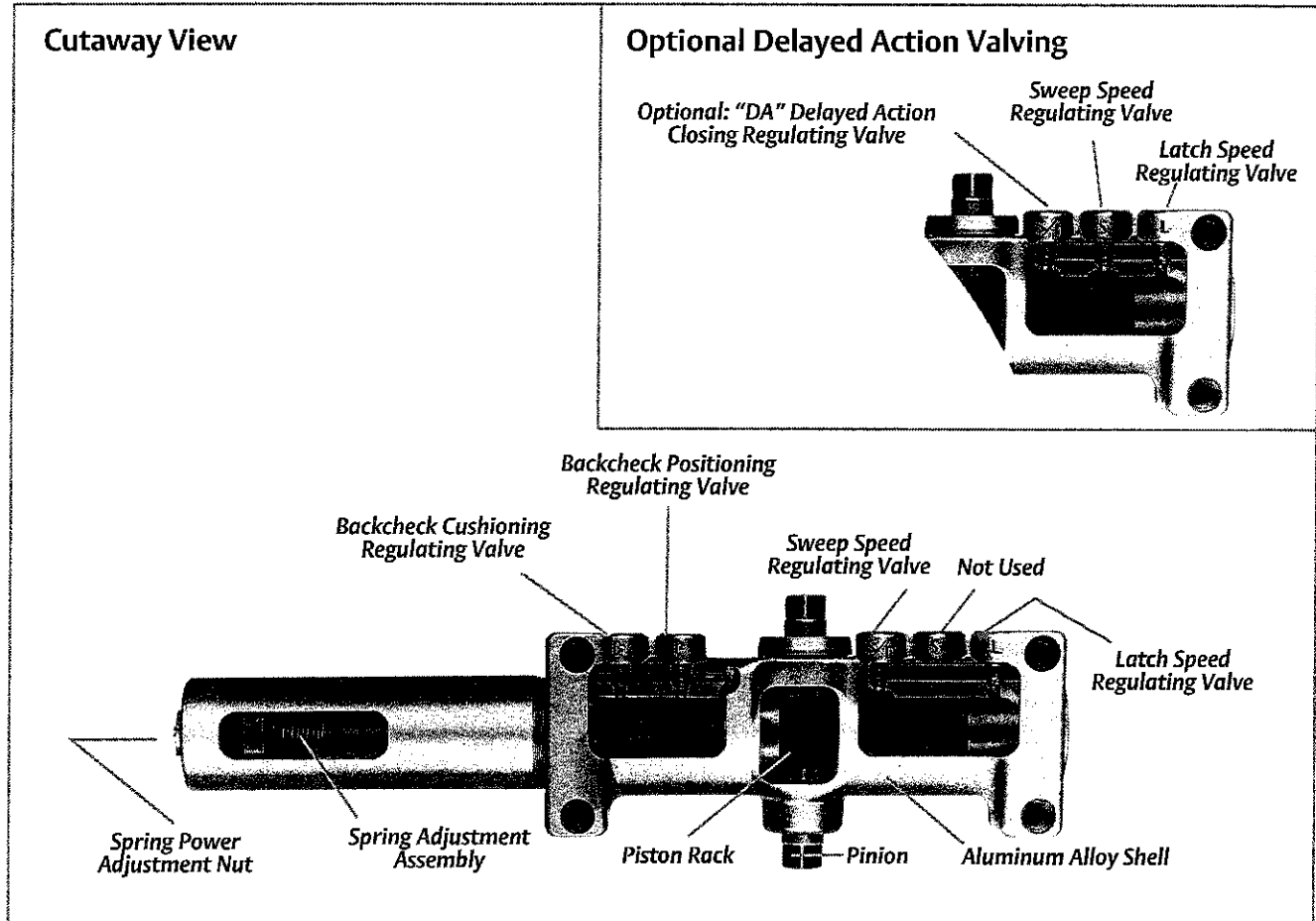
**SECURITRON**  
**ASSA ABLOY**

## 7500/7700 Series Door Closers




**Norton**

ASSA ABLOY

## OVERVIEW



## COMPLIANCE STANDARDS

 The series 7500 door closers are designed to comply with requirements of the Americans with Disabilities Act (A.D.A.) and ANSI standard A117.1. All series 7500/7700 door closers are ANSI/BHMA A156.4 Grade 1 certified.  All Norton series 7500/7700 closers with non-hold open arms are listed by Underwriters' Laboratories for labeled fire doors.  This includes compliance to UL10C for 3-hour assemblies. The product is manufactured in an ISO 9001 facility. These closers are also listed by the New York City Materials and Equipment Acceptance Division.

**Windstorm**

Norton 7500 door closers are UL certified for inswing and outswing single and pair (up to 8'0" x 8'0") door assemblies to ICC 500 for Storm Shelters. Additionally, the 7500 meets FEMA 361 guidelines.

7500 is part of a complete ASSA ABLOY tornado and hurricane shelter solutions utilizing Ceco StormPro 361, Curries StormPro 361, Fleming F5 doors and frames and McKinney SP hinges.

**CAUTION: Door Closers for Low Opening Force Applications:**

Door closers installed in openings required to meet the requirements of the Americans With Disabilities Act or ANSI Standard A117.1, when adjusted to meet those requirements, may not provide adequate closing power to dependably close and latch the door.

**HOW TO ORDER**

NOTE: For optimum protection of door and frame assemblies, always use auxiliary wall, floor, or overhead door stop.

- No Prefix** } 7700 series designates bi-packed (regular & top jamb). (Top jamb up to 3" reveal. For frame face less than 3", order 7786 backplate.)  
 7500 series designates Tri-Style® packaging (tri-packed).
- J** - Top jamb installation. Supplied with 7786 backplate 2-3/4" - 7" reveal, 150° swing.
  - JL** - Top jamb installation. Supplied with 7786 back plate 2-3/4" - 7" reveal, 180° swing.
  - P** - 7700 parallel arm only.
    - 7500 parallel arm units with specialty brackets.
    - 7580 low-profile closer.
    - 7500SS corrosion-resistant closer.
  - PR** - Parallel rigid arm (parallel arm only); specify hand for hold open functions.
  - PRO** - Parallel rigid arm with offset soffit plate (parallel arm only); specify hand for hold open applications.
  - PS** - 7500ST / 7540ST / 7700ST / 7740ST for push side mounting only.
  - R** - Rigid heavy-duty regular arm. (Torx® screws not included) (N/A in stainless steel)
  - CLP** - CloserPlus® arm (parallel arm only).
  - CPS** - CloserPlusSpring™ arm (parallel arm only).
  - UNI** - Unitrol® arm (parallel arm only - specify **door width**).  
Frame reveals 1-7/8" to 4-5/8" (48mm-117mm) standard.
  - UNIJ** - Unitrol arm (top jamb only - specify **frame reveal**). 7-3/8" (187mm) maximum.

Sizing charts provided on pages 13-25 are based on 1-3/4" (44mm) x 7'0" (2.13m) standard weight doors swinging to 110°. Other conditions (such as door height or weight, or wind/draft conditions) may require a larger size closer.

**0** - Series 7500 power range 1 through 6

**Series 7700**

- "2" - ANSI size 2
- "3" - ANSI size 3
- "4" - ANSI size 4
- "5" - ANSI size 5
- "6" - ANSI size 6

**JL**  
PREFIXES

**75**  
FIRST & SECOND DIGIT  
Defines closer series

**0**  
THIRD DIGIT  
Specifies some options

**0**  
FORTH DIGIT  
Closer power sizing

**H**  
SUFFIXES

77 = 7700 sized closer  
75 = 7500 multi-sized closer

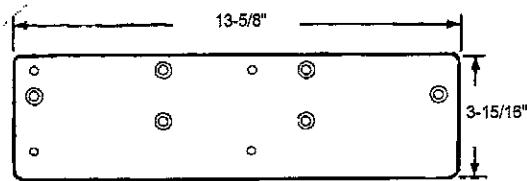
- 0** - Specifies standard arm.
- 3** - Indicates top jamb (J prefix) for frame reveal 0 to 3" (0-76mm). 7786 back plate included.
- 4** - Specifies shallow 11/16" (17mm) depth slide track for closer with "ST" suffix.
- 7** - Specifies closer having a security arm, security cover and Torx® security screws (specify hand).
- 8** - Specifies low-profile arm (use prefix "P" parallel arm or "J" for top jamb). Non-hold open only.

- None** - Non-hold open arm function
- H** - Hold open arm function (specify hand when "PR" prefix is ordered)
- M** - Metal cover (cover is handed for top jamb applications)
- MLL** - Lead lined metal cover
- DA** - Optional delayed action feature
- EBC** - Optional enhanced backcheck
- HOSP** - 7703 or 7704 only. Hospital hold open (specify hand)
- COUP** - 7702 or 7703 only. Coupon both hold open (specify hand)
- TEL** - 7702 only - Telephone booth function (non-handed)
- ST** - Slide track - single lever arm (auxiliary stop recommended). For push side - prefix PS
- ST-180** - Slide track - single lever arm, pull side track without buffer assembly for maximum door swing (auxiliary stop required)
- ST-DE** - Slide track - pull side double egress
- SS** - Series 7500 only. Corrosion-resistant closer. Available with non-hold open adjustable arm only; for regular arm, top jamb "J" prefix or parallel arm "P" prefix
- STP** - 7706 and 7706EP door closers only, slide track for pocket door application
- EP** - Extra power door closer (for 7706 closer only)
- T** - Thumbturn hold open on CloserPlus® (CLP) or CloserPlusSpring™ (CPS) arm
- G** - ABS cover

**Note:**

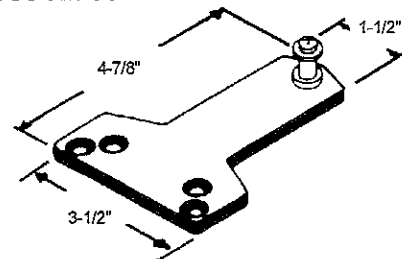
- Door closer warranty becomes void if it is installed on the exterior side of a door in the exterior wall of a building
- It is strongly recommended, and it is required on fire door assemblies, that doors having a door closer be hung on ball-bearing or anti-friction hinges or pivots
- Failure to use the correct type and size fasteners may void factory warranty
- Fasteners for fire/smoke door assemblies must conform to NFPA 80. In some applications additional fasteners may be mandated by NFPA 80 that are not shipped with Norton's standard product, such as sleeve nuts or through-bolts and grommet nuts
- Sizing charts provided on pages 13-25 are based on 1-3/4" (44mm) x 7' (2.13m) standard weight doors swinging to 110 degrees. Other conditions (such as door height or weight; or wind/draft conditions) may require a larger size closer.

### Series 7500/7500BF & 8301/8501 Door Closer Accessories



#### #7786 Drop Plate—Narrow Top Rail

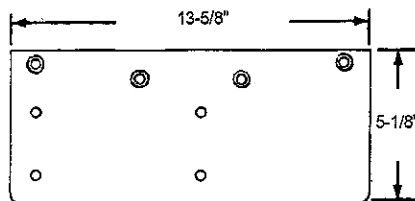
For use where the narrowed directly to the door surface. This Drop Plate must be used for any Series 7500 mounted on a top rail between 1-7/8" and 3-3/8" in height.



#### #1618—Soffit Plate

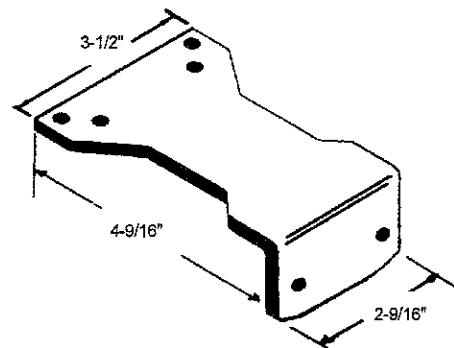
##### Standard Installation

This soffit plate is supplied standard with parallel arm closers. It can be mounted where the frame soffit is as narrow as 1".



#### #7788 Drop Plate—Narrow Top Rail

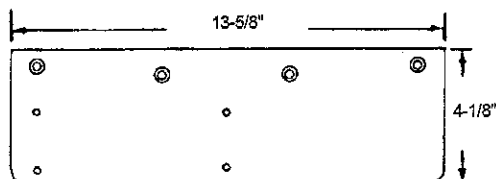
For use where a narrow top rail prevents the closer from being mounted directly to the door surface. This Drop Plate can be used to mount a closer on a top rail as narrow as 2-3/8" in height.



#### #1628H—Adapter Plate

##### Parallel Hold-Open/Fusible-Link

This adapter plate is supplied standard with most hold-open closers. It can also be used to convert regular arm or top jamb hold-open to parallel arm installation. It can be mounted where the frame soffit is as narrow as 1".

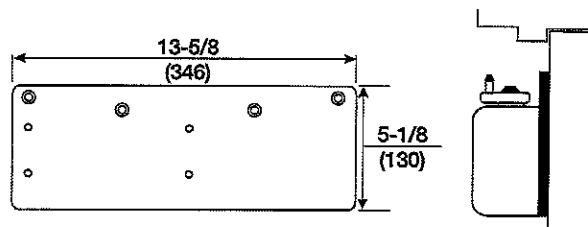


#### #7787—Overhead Door Holder

##### Low Ceiling Clearance

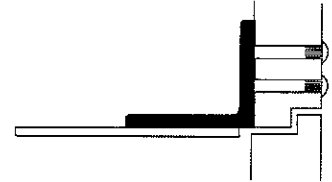
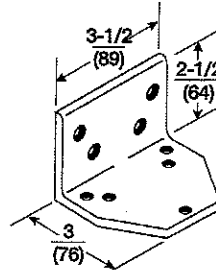
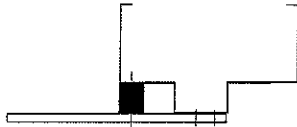
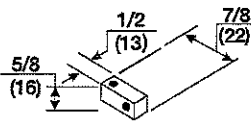
Drop Plate: For use where the ceiling clearance is between 1-7/8" and 3-7/8" or where a surface or concealed overhead door holder prevents normal top jamb mounting. This plate drops the closer and allows the arm mounting screws to clear the bottom of the door holder. This places the centerline of the arm mounting screws at 3-1/4" from the top of the door.

### Closer Mounting Plate



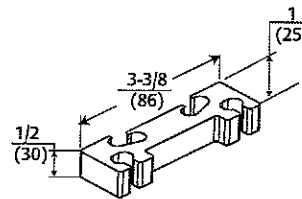
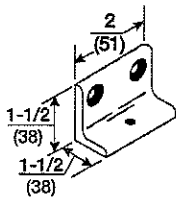
**Narrow Top Rail - #7788 Drop Plate:** For use where a narrow top rail prevents the closer from being mounted directly to the door surface. This drop plate can be used to mount a closer on a top rail as narrow as 2-1/2" (64mm) in height.

### Brackets for Non-Hold Open Arms & Hold Open Arms



**Standard - #2019S Spacer Block:** For use where a narrow frame soffit does not provide adequate support for the soffit plate. Supplied as standard with all parallel rigid arm closers.

**Flush Rabbeted Transom - #2019L Angle Bracket:** For use where flush transom conditions prevent mounting of the standard soffit plate. This bracket is used in combination with the standard soffit plate.



**Narrow Frame - #6890 Support Bracket:** For use where the frame is narrow, and the soffit plate cannot be mounted directly to the frame soffit or rabbet. Used in combination with the #6891 Spacer Block on blade stop frames to provide extra support and needed clearance of the blade stop. Used on frames where the frame stop does not exceed 5/8" (11mm) in height.

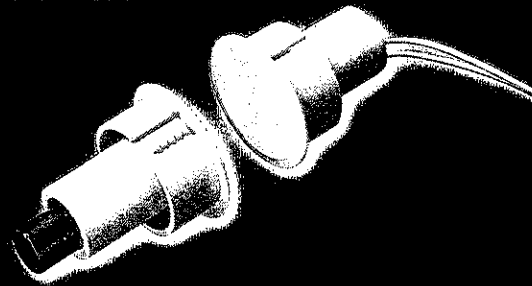
**Clearance/Support Blade Stop - #6891 Spacer Block:** For use where the door frame has a blade stop and the soffit plate must be mounted on the frame rabbet. This accessory is used in combination with the standard spacer block to provide clearance of the blade stop.



# GE Magnetic Contacts

## 1078 Series

1" Dia



Gap Distance		Closed Loop	SPDT
In Steel	In Wood		
Up to 1/4"	1"	1078	1078
Up to 1/2"	2"	1078W	1078W
Up to 3/4"	3"		1078 DPDT (see Catalog Listing)

60-67	Maximum Working Voltage 500V
50-600V	50

100% TESTED



UL LISTED  
EHS  
Components and Supplies





# SecureBolt® Features

ED4000

## ED4200S Narrow Stile SecureBolt® Exit Device



### Features

#### Handing

Device non-handed.  
Trim handed.

#### Bar Length

Easily field cut to size.  
Standard: 36" (914mm) bar fits 30"- 36" (762mm-914mm) door.  
Optional: 24" (610mm) bar fits 24" (610mm) door; specify W024.  
Optional: 48" (1219mm) bar fits 36"- 48" (914mm-1219mm) door; specify W048.

#### Door Thickness

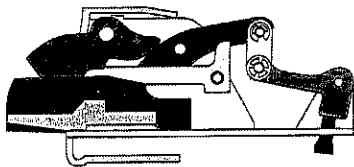
1-3/4" (44mm) standard.  
Optional: 2" (51mm); specify D200.  
Optional: 2-1/4" (57mm); specify D214.

#### Stile

Minimum width 2" (51mm).

#### Deadbolt

Full 3/4" (19mm) projection, 1" (25mm) wide, positive deadlocking by auxiliary bolt.



Cutaway Side View

#### Materials

High-grade, heat-treated, corrosion-resistant nickel steel alloy. Finished parts are brass, bronze or stainless steel; stainless steel springs; nylon bearings.

#### Latchbolt

Stainless steel. Slide action deadbolt with positive deadlocking by auxiliary bolt. Two-piece deadbolt mechanism utilizing a roll-back lever which eliminates any contact (friction) with the strike during relocking.

#### Projection

3-1/4" (83mm) active, 2-3/4" (70mm) dogged.

#### Dogging

Standard: single-point 1/4 turn hex key dogging.  
Optional: less dogging; specify M51.  
Optional: cylinder dogging; specify M52.  
Optional: electric dogging; specify M97.

#### Fasteners

Standard: machine screws.  
Optional: sex nuts and bolts; specify M54.

#### Strike

Surface mounted 3/8" (10mm) diameter roller strike, complete with positive locking plate and shims, ensuring low-friction relocking for a long, trouble-free life.

#### Functions and Trims

Through-bolted lever, knob, pull, thumbturn and thumbpiece trims available with wide range of functions; see Trims and Functions, page 14.

#### Cylinders

Cylinder not included unless specified. See Quick Codes, page 32.

#### Removable Mullion

See Mullions, page 27.

#### Shim Kit

Optional for mounting device over raised vision light molding; specify M58.

#### Applications and Listings

See page 3.

#### Warranty

Five-year limited.

### Certification/Compliance

#### ANSI

Meets A156.3, Type 4 or 28, Grade 1.  
Meets A117.1 Accessibility Code.

#### UL/cUL

All devices listed for safety as panic hardware; devices comply with UL 305 standards for panic hardware. UL symbol on active case cover indicates listing.

#### California State Reference Code

This product has been approved by the California State Fire Marshal pursuant to section 13144.1 of the California Health and Safety Code.

#### NFPA

All exit devices comply with NFPA 101 Life Safety Code.

#### ADA

Exit devices, lever trims and pulls comply with Americans with Disabilities Act.

#### Finishes

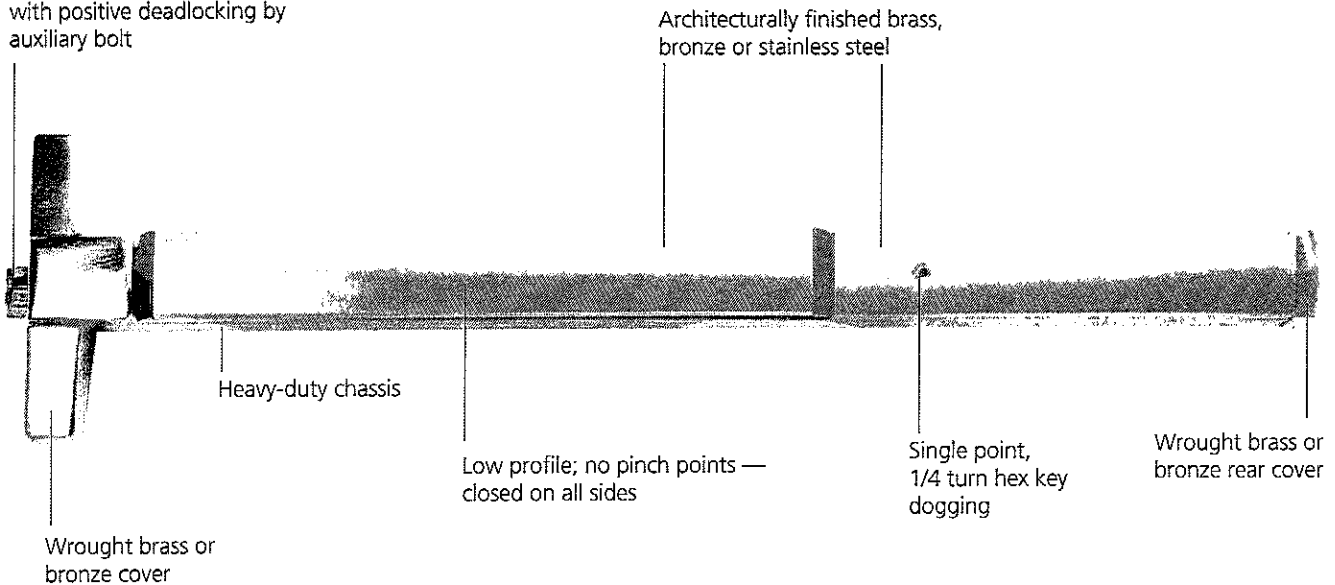
BHMA 605	Bright Brass	
BHMA 606	Satin Brass	
BHMA 611	Bright Bronze	
BHMA 612	Satin Bronze	
BHMA 613	Oxidized Bronze, oil rubbed, available lacquered	
BHMA 618	Bright Nickel Plated	
BHMA 619	Satin Nickel Plated	
BHMA 625	Bright Chromium Plated	
BHMA 626	Satin Chromium Plated	
626C	Satin Chromium Plated with MicroShield®	
BHMA 629	Bright Stainless Steel	
BHMA 630	Satin Stainless Steel	
630C	Satin Stainless Steel with MicroShield®	
BHMA 722	Black oxidized bronze, oil rubbed	

# SecureBolt® Features

## ED4000

### ED4200S SecureBolt® Exit Device

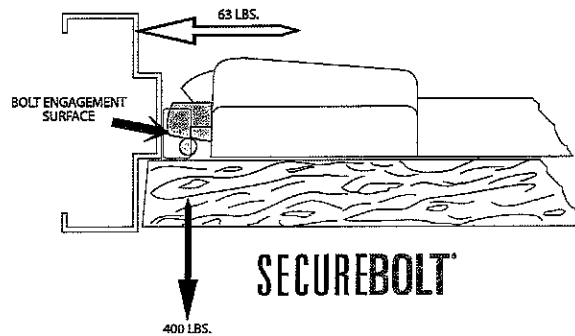
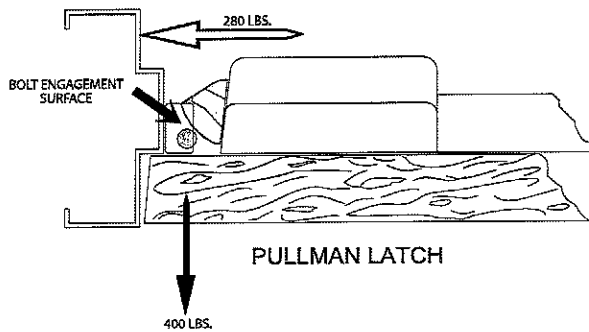
3/4" (19mm) projection x 1" wide deadbolt-style latchbolt with positive deadlocking by auxiliary bolt



#### Vector Forces

In terms of an exit device, vector forces mean that pressure applied to the door results in a force against the stop and the frame, resulting in door/frame separation. The standard pullman latchbolt applies 280 pounds of force against the frame from a 400-pound pull on the door.

The SecureBolt® exit device only applies 63 pounds of force against the frame from a 400-pound pull on the door. Less force means the door and frame do not separate, providing a higher level of security, as the door cannot be pulled open.



# Rim Features

## ED4000

### ED4200 Narrow Stile Rim Exit Device



#### Features

##### Handing

Device non-handed.  
Trim handed.

##### Bar Length

Easily field cut to size.  
Standard: 36" (914mm) bar fits 30" - 36" (762mm-914mm) door.  
Optional: 24" (610mm) bar fits 24" (610mm) door; specify W024.  
Optional: 48" (1219mm) bar fits 36" - 48" (914mm-1219mm) door; specify W048.

##### Door Thickness

1-3/4" (44mm) standard.  
Optional: 2" (51mm); specify D200.  
Optional: 2-1/4" (57mm); specify D214.

##### Stile

Minimum width 2" (51mm).

##### Latchbolt

3/4" (19mm) throw, pullman type with stainless steel deadlocking latch.

##### Materials

Heavy-duty cold-forged steel chassis; heavy-gauge steel mechanisms, electroplated for corrosion resistance; finished parts are brass, bronze or stainless steel; stainless steel springs; nylon bearings.

##### Projection

3-1/4" (83mm) active, 2-3/4" (70mm) dogged.

##### Dogging

Standard: single point 1/4 turn hex key dogging.  
Optional: less dogging; specify M51.  
Optional: cylinder dogging; specify M52.  
Optional: electric dogging; specify M97.

##### Fasteners

Standard: machine screws.  
Optional: sex nuts and bolts; specify M54.

##### Strike

Surface mounted 3/8" (10mm) diameter roller strike, complete with positive locking plate and shims.

#### Functions and Trims

Through-bolted lever, knob, pull, thumbturn and thumbpiece trims available with wide range of functions; see Trims and Functions, page 14.

#### Cylinders

Cylinder not included unless specified. See Quick Codes, page 32.

#### Removable Mullion

See Mullions, page 27.

#### Shim Kit

Optional for mounting device over raised vision light molding; specify M58.

#### Applications and Listings

See page 3.

#### Warranty

Five-year limited.

#### Certification/Compliance

##### ANSI

Meets A156.3, Type 4, Grade 1.  
Meets A117.1 Accessibility Code.

##### UL/cUL

All devices listed for safety as panic hardware; devices comply with UL 305 standards for panic hardware. UL symbol on active case cover indicates listing.

##### California State Reference Code

This product has been approved by the California State Fire Marshal pursuant to section 13144.1 of the California Health and Safety Code.

##### NFPA

All exit devices comply with NFPA 101 Life Safety Code.

##### ADA

Exit devices, lever trims and pulls comply with Americans with Disabilities Act.

#### Finishes

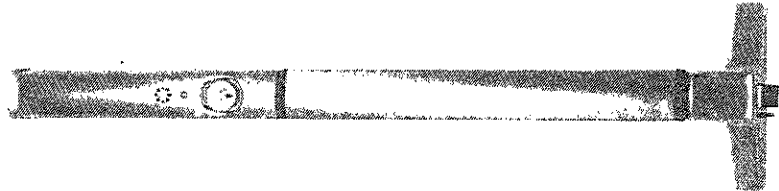
BHMA 605	Bright Brass	
BHMA 606	Satin Brass	
BHMA 611	Bright Bronze	
BHMA 612	Satin Bronze	
BHMA 613	Oxidized Bronze, oil rubbed, available lacquered	
BHMA 618	Bright Nickel Plated	
BHMA 619	Satin Nickel Plated	
BHMA 625	Bright Chromium Plated	
BHMA 626	Satin Chromium Plated	
626C	Satin Chromium Plated with MicroShield®	
BHMA 629	Bright Stainless Steel	
BHMA 630	Satin Stainless Steel	
630C	Satin Stainless Steel with MicroShield®	
BHMA 722	Black oxidized bronze, oil rubbed	

# Electrified Exit Devices

## ED4000

### Electrified Exit Devices

The Corbin Russwin ED4000 series electrified exit devices offer a complete range of options that may be integrated into the monitoring security and alarm systems of most buildings. The continuum of appearance is maintained, as well as the security and function of the ED4000 mechanical exit device.



List No.	Exit Device Description	Available Options						
		M61	M91	M92	M93	M94	M97	D
ED4200	Rim Exit Device	x	x	x	x	x	x	x
ED4200S	Rim SecureBolt® Device	x	x	x	x	x	x	x
ED4400	Surface Vertical Rod	x	x	x	x	x	x	x
ED4800	Concealed Vertical Rod	x	x	x	x	x	x	x

### Electrified Hardware Option Descriptions

M61	Alarm Option
M91	Bolt Monitor
M92	Touchbar Monitor
M93	Trim Monitor
M94	Electric Latch Pullback
M97	Electric Dogging
D	Delayed Egress

\* Add as suffix to exit device.  
Example: ED5400D x 630 x RHR

#### Notes:

- The following options cannot be ordered together on the same device:
 

D x M52	M52 x M61
D x M61	M52 x M97
D x M92	M61 x M92
D x M94	M94 x M97
D x M97	ED4400 x M61 with Monitors M91, M92 or M93
- When ordering a Surface Vertical Rod exit device with the D option (ED4400D), rod and latch guards (provided by others) must be used.