7000 Series
Architectural Exit Devices
introduction

Yale® 7000 series exit devices deliver an unparalleled combination of durability, breadth of line, innovation and aesthetics.

As the most recognized name in the door hardware industry, Yale offers a proven selection of hard-working exit devices. The simple, clean lines of our wide and narrow stile devices are visually appealing and bring a gracious totality to the Yale line of locks and hardware.

To meet electronic access control needs, Yale 7000 series exit devices come with a full array of electromechanical options and accessories. The 7000 series can be effortlessly integrated into existing security or fire alarm systems to ensure every opening is safeguarded.

Today’s architecture stresses the safety and security of a building’s contents, the most important of these being people. Reducing the consequences of potential risks is the goal of any designer. By mounting panic and fire exit devices, vandals are deterred, but swift, unobstructed egress is permitted. Yale 7000 series exit devices meet life safety codes and fire safety requirements, allowing for local ordinances to be met and allowing peace of mind for the people inside.

7000 series features

**Durability**
- Steel chassis and heavy-duty components for superior strength, robustness and lower maintenance

**Breadth and Innovation**
- Full range of mechanical and electromechanical options for security and life safety applications
- Patented security features including SquareBolt® latchbolts (Pat. no. 5,605,362) and delayed egress exit devices (Pat. no. 7,469,942).

**Aesthetics**
- Clean, modern, sleek design
- High-quality attractive architectural finishes deliver consistency & durability

7000 series features

**7100(F) series**
A conventional exit device for single swing doors or pairs of doors of metal, wood or composite construction.

**7200 series**
A narrow stile exit device compatible with the aesthetics and function requirements of contemporary doors of aluminum or metal construction.

**7200M(F) series**
A narrow appearance exit device designed for wide or flush stile doors of metal, wood or composite construction.

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finishes

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<th>Finish Description</th>
<th>ANSI/ BHMA Code</th>
<th>Finish Description</th>
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<tbody>
<tr>
<td>605</td>
<td>Bright Brass, Clear Coated</td>
<td>619</td>
<td>Satin Nickel Plated, Clear Coated</td>
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<td>606</td>
<td>Satin Brass, Clear Coated</td>
<td>620</td>
<td>Satin Nickel Plated, Blackened,</td>
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<td>Satin Relieved, Clear Coated</td>
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<td>only)</td>
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<td>611</td>
<td>Bright Bronze, Clear Coated</td>
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<td>Satin Bronze, Clear Coated</td>
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<td>613</td>
<td>Dark Oxidized Satin Bronze, Oil</td>
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<td>Satin Stainless Steel</td>
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<td>Rubbed ¹</td>
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<td>693</td>
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<td>Black Oxidized Bronze, Oil</td>
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<td>Rubbed ²</td>
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</table>

Finishes For Touchbar Covers Only

<table>
<thead>
<tr>
<th>Finish Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BN ¹ Semi-gloss black fused polymer</td>
</tr>
<tr>
<td>LUM Lumi-Lite® Photoluminescence</td>
</tr>
<tr>
<td>SS Stainless Steel</td>
</tr>
</tbody>
</table>

1. New May 1, 2010
2. Formerly 613 prior to May 1, 2010
3. Standard for device accent parts and strikes

Finish available with MicroShield® antimicrobial coating, additional finishes by special application. Consult factory for availability.
7000 series architectural exit devices

**features**

**SquareBolt® exit device**
A revolutionary security and safety exit device from Yale®, the SquareBolt patented design (Pat. no. 5,605,362) presents an improved physical barrier over standard rim latchbolts.

Available in wide stile, narrow stile, and narrow appearance designs, the SquareBolt exit device locks into place and stays there. Credit cards, crowbars, door rattling and shaking are resisted, significantly reducing the threat of unauthorized entry.

**Electrified exit devices**
The Yale 7000 series exit device offers a complete range of electrical options:

- Latch Pullback
- Electric Dogging
- Mortise Device Trim Control
- Touchbar Monitor or Signaling
- Outside Trim Monitor or Signaling
- Latchbolt Position Monitor or Signaling
- Delayed Egress (Pat. no 7,469,942)
- Electric Trim Control
- Exit Alarm

Continuity in appearance, security and functions with the 7000 Series mechanical exit devices is maintained. 7000 series electrified exit devices may be integrated into the security and alarm monitoring systems of most buildings.

**Windstorm**
Certified (refer to local codes). Specify suffix “WS” to 7150(F), 7170(F) or 7250M(F) devices.

**Warranty**
- Mechanical exit devices and heavy-duty trim carry a five-year limited warranty.
- Utility-duty trim carries a one-year limited warranty.
- Electrical options and components carry a two-year limited warranty.

**MicroShield®**
7000 series exit devices and trim are available with MicroShield® antimicrobial coating. MicroShield is a revolutionary hardware finish coating, using a silver ion based technology, which inhibits the growth of bacteria, algae, yeast, fungus, mold and mildew. MicroShield is non-toxic and lasts for the lifetime of the finish to which it is applied. To order, suffix option code “YMS”.

Note: MicroShield coating may vary finish color from architectural standards. MicroShield is not intended as a substitute for traditional infection control programs such as hand hygiene or use of disinfectants. Coated products must still be cleaned to insure the surfaces will be free of destructive microbes. Yale makes no representations or warranties, express or implied, as to the efficacy of the MicroShield antimicrobial. A copy of the MicroShield warranty is available upon request.

**Lumi-lite®**
Lumi-lite uses photoluminescence technology to provide visibility of exit doors in low-light, no light or smokey conditions. Lumi-lite absorbs ambient lighting which is then emitted when the light source is diminished or eliminated. This patent pending feature is provided as an option for the touchpad cover for the 7000 series exit devices. To order with device, suffix option code “LUM”.

The touchpad cover can also be ordered separately and easily retrofits to existing 7000 series exit devices in the field. See page 48 for how to order separately.

Touchpad cover comes standard with the word “EXIT” centered on the top half in approximately 1” high lettering.

**Performance Standards**
UL - cUL Panic Exit Listing: Doors up to 4’0” x 10’0” (1.22m x 3.05m), single swing or pairs.

UL - cUL Fire Exit Label: Doors up to 4’0” x 10’0” (1.22m x 2.44m), single swing or pairs.

*UL does not set height limitations on panic devices.*

<table>
<thead>
<tr>
<th>Listing Agency</th>
<th>Listing Number</th>
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<tr>
<td>Underwriters</td>
<td>4140-0257:111</td>
</tr>
<tr>
<td>Laboratories, Inc.</td>
<td>(FVSR) (G69/K)</td>
</tr>
<tr>
<td>California</td>
<td>3725-0257:112</td>
</tr>
<tr>
<td>Fire Marshal</td>
<td>(ZHLA) (ZHEM)</td>
</tr>
<tr>
<td>New York City</td>
<td>MEA: 477-91-E</td>
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<td></td>
<td>MEA: 333-05-M</td>
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<tr>
<td>B.H.M.A.</td>
<td>Directory of Certified Exit Devices</td>
</tr>
<tr>
<td>(ANSI A156.3)</td>
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</tr>
<tr>
<td>B.H.M.A.</td>
<td>Directory of Certified Delayed Egress Exit Devices</td>
</tr>
<tr>
<td>(ANSI A156.24)</td>
<td></td>
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</tbody>
</table>

Note: Any retrofit or other field modification to a fire rated opening can potentially impact the fire rating of the opening, and Yale Locks & Hardware makes no representations or warranties concerning what such impact may be in any specific situation. When retrofitting any portion of an existing fire rated opening, or specifying and installing a new fire-rated opening, please consult with a code specialist or local code official (Authority Having Jurisdiction) to ensure compliance with all applicable codes and ratings.

**Free-wheeling lever trim**
All Yale exit device trims (except mortise trim) feature the unique Free-Wheeling lever mechanism, similar to our 5400LN cylindrical lock. This Free-Wheeling trim features a clutch mechanism which allows the lever to float down 60 degrees when operated in the locked condition, greatly improving vandal resistance.
SquareBolt®

7150(F)

Just as easy to open as traditional latchbolts, the SquareBolt® exit device's unique construction offers innovative protection. Its patented SquareBolt (Pat. no. 5,605,362) design presents an improved physical barrier over standard rim latchbolts. The SquareBolt exit device locks into place and stays there. Credit cards, crowbars, door rattling and shaking are resisted, significantly reducing the threat of unauthorized entry.

certification/compliance

UL/cUL Listed: FVSR/FVSR7 - Panic hardware
GXHX/GXHX7 - Fire exit hardware (F)
(4’ x 8’ single, 8’ x 8’ pairs, 3 hr.)
ZHEM - Latching hardware
ZHLA - Windstorm rated assemblies

ANSI/BHMA Certified: A156.3 Type 1 or 28, Grade 1
U.S. Patent #: 5,605,362

features

• Patented SquareBolt security deadbolt (Pat. no. 5,605,362) designed for maximum holding power
• Non-handed for easy installation
• Can be retrofitted onto existing 7100 series templated doors
• Fully adjustable surface-mounted 3/8” diameter roller strike complete with positive locking plate and shims
• Available in double cylinder function (hanging must be specified)
• Available certified hurricane resistant (refer to local codes). Specify 7150(F)WS

options

• Single swing doors
• Pairs of doors with removable mullions
• Metal, wood or composite door materials

applications

specifications

Door Opening Width: -24 for 24” (60cm) doors
-36 for 30” - 36” (76cm - 91cm) doors
-48 for 36” - 48” (91cm - 122cm) doors
Optional sizes can be special ordered. Consult Technical Product Support.
Door Thickness: 1-3/4” (44mm) standard. Optional door thicknesses available to 4-1/2”; specify door thickness when ordering.
Minimum Stile Width: 4-1/2” (114mm)
Projection: 3-1/4” (83mm) active, 2-3/4” (70mm) dogged
Deadbolt: Patented 1” (25mm) slide projection bolt with full 3/4” (19mm) projection
Strike: 757F, 793 optional (double door application, panic only)
Fasteners: Machine screws and wood door fasteners standard for panic hardware. Sex nuts and bolts supplied standard for fire exit hardware.
Trims: 620F series escutcheon trim, 630F series pull/thumbpiece trim, 680F series offset pull trim, 540F series rose trim, 121NL cylinder only. See pages 27-29.
Dogging: Hex key dogging supplied standard on panic devices
Options: Cylinder dogging, shim kit #723, sex nuts and bolts, MicroShield®, Lumi-Lite®
Warranty: 5-year limited
7000 series | architectural exit devices

rim

7100(F)

The 7100(F) is a rim exit device to be used with single doors or pairs of doors constructed of metal, wood or composite materials. Designed for application in high-use areas, the 7100(F) comes in a variety of finishes and can be combined with a variety of trims to match any desired style.

certification/compliance

UL/cUL Listed: FVSR/FVSR7 - Panic hardware
GXHX/GXHX7 - Fire exit hardware (F)
(4’ x 8’ single, 8’ x 8’ pairs, 3 hr.)

ANSI/BHMA Certified: A156.3 Type 1, Grade 1

features

• Designed for wide stile doors
• 3/4” throw deadlocking stainless steel pullman latchbolt
• Electroplated ferrous components provide corrosion resistance
• Available in double cylinder function (handing must be specified)

applications

• Non-handed for easy installation
• Single swing doors
• Pairs of doors with removable mullions
• Metal, wood or composite door materials

specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
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</table>
| Door Opening Width    | -24 for 24” (60cm) doors
-36 for 30” - 36” (76cm - 91cm) doors
-48 for 36” - 48” (91cm - 122cm) doors |
| Optional sizes can be special ordered. Consult Technical Product Support. |
| Door Thickness        | 1-3/4” (44mm) standard. Optional door thicknesses available to 4-1/2”; specify door thickness when ordering. |
| Minimum Stile Width   | 4-1/2” (114mm)                                                          |
| Projection            | 3-1/4” (83mm) active, 2-3/4” (70mm) dogged                            |
| Latchbolt             | 3/4” (19mm) deadlocking stainless steel pullman-type                    |
| Strike                | 757F, 793 optional (double door application, panic only)                |
| Fasteners             | Machine screws and wood door fasteners standard for panic hardware. Sex nuts and bolts supplied standard for fire exit hardware. |
| Trims                 | 620F series escutcheon trim, 630F series pull/thumbpiece trim, 680F series offset pull trim, 540F series rose trim, 121NL cylinder only. See pages 27-29. |
| Dogging               | Hex key dogging supplied standard on panic devices                      |
| Options               | Cylinder dogging, shim kit #723, sex nuts and bolts, MicroShield®, Lumi-Lite® |
| Warranty             | 5-year limited                                                          |
surface vertical rod

7110(F)

The 7110(F) is a surface vertical rod exit device to be used on wide stile or flush doors up to 8’ (fire) and 10’ (panic) where two-point latching is desired.

certification/compliance

UL/cUL Listed: FVSR/FVSR7 - Panic hardware
GXHX/GXHX7 - Fire exit hardware (F)
(8’ x 8’ pairs, 3 hr.)

ANSI/BHMA Certified: A156.3 Type 2, Grade 1

features

• Designed for wide stile and flush doors
• Handed. Specify hand (field reversible)
• Bottom deadbolt for secure latching
• Fully adjustable roller strike

applications

• Pairs of doors
• Double egress
• Metal, wood or composite door materials

specifications

Door Opening Width:
- 24 for 24” (60cm) doors
- 36 for 30” - 36” (76cm - 91cm) doors
- 48 for 36” - 48” (91cm - 122cm) doors
Optional sizes can be special ordered. Consult Technical Product Support.

Door Opening Height:
Standard door height 7’ (213cm), with the device centerline at 39-15/16” (101cm) from floor.
Optional heights up to 8’ (fire) and 10’ (panic) available by using rod extensions. For fire rated openings over 8’, see 7170F SVR.

Door Thickness: 1-3/4” (44mm) standard. Optional door thicknesses available to 4-1/2”; specify door thickness when ordering.

Minimum Stile Width: 4-1/2” (114mm)

Projection:
- 3-1/4” (83mm) active, 2-3/4” (70mm) dogged

Latchbolt:
- Top: 3/4” (19mm) throw, pullman-type with automatic deadlatching
- Bottom: 5/8” (16mm) throw deadbolt, held retracted during door swing

Vertical Rods: 1/2” O.D. tubular brass, bronze or stainless steel with rod guides

Strike:

Fasteners: Machine screws and wood door fasteners standard for panic hardware. Sex nuts and bolts supplied standard for fire exit hardware.


Dogging: Hex key dogging supplied standard on panic devices

Options: Cylinder dogging, shim kit #724, sex nuts and bolts, rod extensions, bottom pullman latch (panic only) MicroShield®, Lumi-Lite®

Warranty: 5-year limited
concealed vertical rod

7120(F)

The 7120(F) is a concealed vertical rod exit device to be used on metal doors only up to 8’ (fire) and 10’ (panic) where two-point latching is desired.

certification/compliance

UL/cUL Listed: FVSR/FVSR7 - Panic hardware
GXHX/GXHX7 - Fire exit hardware (F)
(8’ x 8’ pairs, 3 hr.)

ANSI/BHMA Certified: A156.3 Type 8, Grade 1

features

• Designed for wide stile and flush doors
• Handed. Specify hand (field reversible)
• Bottom deadbolt for secure latching
• Fully adjustable roller strike

applications

• Pairs of doors
• Double egress
• Metal doors only

specifications

Door Opening Width: - 24’ (60cm) doors
- 36 for 30’ - 36’ (76cm - 91cm) doors
- 48 for 36’ - 48’ (91cm - 122cm) doors
Optional sizes can be special ordered. Consult Technical Product Support.

Door Opening Height: Standard door height adjustable to 8’ (244cm), with the device centerline at 39-15/16” (101cm) from floor. Optional heights up to 10’ (panic) available by using rod extensions. For fire rated openings over 8’, see 7160F CVR.

Door Thickness: 1-3/4” (44mm) standard. 2” and 2-1/4” (51mm and 57mm) optional; specify when ordering.

Minimum Stile Width: 4-1/2” (114mm)

Projection: 3-1/4” (83mm) active, 2-3/4” (70mm) dogged

Latchbolt: Top: 3/4” (19mm) throw, pullman-type with automatic deadlatching
Bottom: 5/8” (16mm) throw deadbolt, held retracted during door swing

Vertical Rods: 1/2” (13mm) O.D. telescoping tubular rods


Fasteners: Machine screws standard for panic hardware. Sex nuts and bolts supplied standard for fire exit hardware.


Dogging: Hex key dogging supplied standard on panic devices

Options: Cylinder dogging, shim kit #723, sex nuts and bolts, rod extensions, bottom pullman latch (panic only) MicroShield®, Lumi-Lite®

Warranty: 5-year limited
7130(F)

The 7130(F) is an exit device integrated with the Yale® 8700 Series Mortise Lock for use on single doors or active leaf of a pair of doors where life safety and extra security are required. The 8700 Series Mortise Lock used is modified for use with exit devices only.

**certification/compliance**

UL/cUL Listed:  FVSR/FVSR7 - Panic hardware  
GXHX/GXHX7 - Fire exit hardware (F)  
(4' x 8' single, 8' x 8' pairs, 3 hr.)  
(4' x 9' single, 8' x 9' pairs, 1-1/2 hr.)

ANSI/BHMA Certified:  A156.3 Type 3, Grade 1

**features**

- Designed for wide stile and flush doors
- Handed; specify hand
- Two-piece mechanical 3/4" throw deadlocking stainless steel latchbolt
- Easily disassembles for maintenance and service
- Available in double cylinder function

**applications**

- Single swing doors
- Pairs of doors with vertical rod devices or automatic flush bolts
- Metal, wood or compatible door materials

**specifications**

- Door Opening Width:  
  - 24 for 24" (60cm) doors  
  - 36 for 30" - 36" (76cm - 91cm) doors  
  - 48 for 36" - 48" (91cm - 122cm) doors  
  Optional sizes can be special ordered. Consult Technical Product Support.

- Door Thickness:  
  - 1-3/4" (44mm) standard. 2" and 2-1/4" (51mm and 57mm) optional; specify when ordering.

- Minimum Stile Width:  
  - 4-1/2" (114mm)

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

- Latchbolt:  
  - Two piece mechanical 3/4" (19mm) deadlocking stainless steel with anti-friction insert and auxiliary deadlocking latch

- Strike:  

- Fasteners:  
  - Machine screws and wood door fasteners standard for panic hardware. Sex nuts and bolts supplied standard for fire exit hardware.

- Trims:  

- Dogging:  
  - Hex key dogging supplied standard on panic devices

- Options:  
  - Cylinder dogging, shim kit #723, sex nuts and bolts, MicroShield®, Lumi-Lite®

- Warranty:  
  - 5-year limited
7200 series applications

Introduction

7200 Series narrow stile exit devices are designed for aluminum openings and are compatible with the aesthetics and functional requirements of contemporary glass doors. The device features lines chosen by leading architects and is available with the proven SquareBolt® exit device for increased security.

Applications

<table>
<thead>
<tr>
<th>Single Door</th>
<th>UL Listing</th>
<th>Maximum Opening</th>
<th>Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>SquareBolt®</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7250 Panic</td>
<td>4' x *</td>
<td>Surface applied; single-point latching.</td>
<td></td>
</tr>
<tr>
<td>Rim</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7200 Panic</td>
<td>4' x *</td>
<td>Surface applied; single-point latching.</td>
<td></td>
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</table>

Surface Vertical Rod

<table>
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<th>Single Door</th>
<th>UL Listing</th>
<th>Maximum Opening</th>
<th>Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>7210 Panic</td>
<td>4' x 10'</td>
<td>Surface applied; two-point latching.</td>
<td></td>
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</tbody>
</table>

Concealed Vertical Rod

<table>
<thead>
<tr>
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<th>UL Listing</th>
<th>Maximum Opening</th>
<th>Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>7220 Panic</td>
<td>4' x 10'</td>
<td>Rods concealed in door; two-point latching.</td>
<td></td>
</tr>
</tbody>
</table>

Pair of Doors

<table>
<thead>
<tr>
<th>Single Door</th>
<th>UL Listing</th>
<th>Maximum Opening</th>
<th>Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>Surface Vertical Rod</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7210 x 7210 Panic</td>
<td>8' x 10'</td>
<td>Two independent doors with two-point latching, swinging in the same direction.</td>
<td></td>
</tr>
<tr>
<td>Surface Vertical Rod (Double Egress)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7210 x 7210 Panic</td>
<td>8' x 10'</td>
<td>Two independent doors with two-point latching, swinging in opposite directions.</td>
<td></td>
</tr>
<tr>
<td>Concealed Vertical Rod</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7220 x 7220 Panic</td>
<td>8' x 10'</td>
<td>Two independent metal doors with two-point latching, swinging in the same direction.</td>
<td></td>
</tr>
<tr>
<td>Concealed Vertical Rod (Double Egress)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7220 x 7220 Panic</td>
<td>8' x 10'</td>
<td>Two independent metal doors with two-point latching, swinging in opposite directions.</td>
<td></td>
</tr>
</tbody>
</table>

Pair of Doors with Removable Mullion

<table>
<thead>
<tr>
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<th>UL Listing</th>
<th>Maximum Opening</th>
<th>Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>SquareBolt® x SquareBolt®</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7250 x 7250 x M300 Panic</td>
<td>8' x 10'</td>
<td>Two independent active doors with removable Mullion.</td>
<td></td>
</tr>
</tbody>
</table>

| Rim x Rim |            |                 |             |
| 7200 x 7200 x M300 Panic | 8' x 10' | Two independent active doors with removable Mullion. | |

*UL does not set a door height limitation on panic applications.
SquareBolt®

7250

The unique construction of the SquareBolt exit device offers innovative protection. The patented square latchbolt design provides an improved physical barrier over standard pullman-type rim latchbolts. It locks into place and stays there. Credit cards, crowbars, door rattle, and shaking are resisted, significantly reducing the threat of unauthorized entry, especially in applications that include removable mullions. The 7250 SquareBolt is designed for narrow stile doors.

Certification/Compliance

UL/cUL Listed: FVSR/FVSR7 - Panic hardware

ANSI/BHMA Certified: A156.3, Type 4 or 28, Grade 1

U.S. Patent #: 5,605,362

Features

- Patented SquareBolt security deadbolt (Pat. no. 5,605,362) designed for maximum holding power
- Non-handed for easy installation
- Maintains the look of the Yale® 7200 series architectural exit devices, allowing for continuity in both design and finish
- Fully adjustable surface mounted 3/8” diameter roller strike complete with positive locking plate and shims
- Used with narrow stile trim

Applications

- Single swing narrow stile doors
- Pairs of narrow stile doors with removable mullions
- Metal and aluminum doors
- For panic-rated doors only

Specifications

| Door Opening Width: | -24 for 24” (60cm) doors |
|                     | -36 for 30” - 36” (76cm - 91cm) doors |
|                     | -48 for 36” - 48” (91cm - 122cm) doors |
| Optional sizes can be special ordered. Consult Technical Product Support. |
| Door Thickness:     | 1-3/4” (44mm) standard. 2” and 2-1/4” (51mm and 57mm); specify when ordering. |
| Minimum Stile Width:| 2” (51mm) |
| Projection:         | 3-1/4” (83mm) active, 2-3/4” (70mm) dogged |
| Deadbolt:           | Patented 1” (25mm) slide projection bolt with full 3/4” (19mm) projection |
| Strike:             | Standard: 759. Optional: 793 (double door applications, panic only) |
| Fasteners:          | Machine screws standard for panic hardware |
| Dogging:            | Hex key dogging supplied standard |
| Options:            | Cylinder dogging, shim kit #723NS, sex nuts and bolts, MicroShield®, Lumi-Lite® |
| Warranty:           | 5-year limited |
The 7200 is a narrow stile rim exit device compatible with the aesthetics and functional requirements of contemporary doors. The 7200 comes in varied finishes and can be combined with a variety of trims to match any desired style.

**features**
- Designed for narrow stile doors
- 3/4” throw deadlocking stainless steel pullman latch
- Non-handed for easy installation

**applications**
- Single swing narrow stile doors
- Pairs of narrow stile doors with removable mullions
- Metal and aluminum doors
- For panic-rated doors only

**specifications**
- **Door Opening Width:**
  - -24 for 24” (60cm) doors
  - -36 for 30” - 36” (76cm - 91cm) doors
  - -48 for 36” - 48” (91cm - 122cm) doors
  - Optional sizes can be special ordered. Consult Technical Product Support.
- **Door Thickness:**
  - 1-3/4” (44mm) standard. 2” (51mm) and 2-1/4” (57mm); specify when ordering.
- **Minimum Stile Width:**
  - 2” (51mm)
- **Projection:**
  - 3-1/4” (83mm) active, 2-3/4” (70mm) dogged
- **Latchbolt:**
  - 3/4” (19mm) deadlocking stainless steel pullman type.
- **Strike:**
  - Standard: 759. Optional: 793 (double door applications, panic only)
- **Fasteners:**
  - Machine screws standard for panic hardware
- **Trims:**
- **Dogging:**
  - Hex key dogging supplied standard
- **Options:**
  - Cylinder dogging, shim kit #723NS, sex nuts and bolts, MicroShield®, Lumi-Lite®
- **Warranty:**
  - 5-year limited
surface vertical rod

7210

The 7210 is a narrow stile surface vertical rod exit device to be used on narrow stile, aluminum and metal doors where two-point latching is desired.

features

- Designed for narrow stile doors
- Handed. Specify hand (field reversible)
- Bottom deadbolt for secure latching
- Fully adjustable roller strike

applications

- Pairs of narrow stile doors
- Metal and aluminum doors
- For panic-rated doors only

specifications

Door Opening Width:  
- 24" (60cm) doors
- 36 for 30" - 36" (76cm - 91cm) doors
- 48 for 36" - 48" (91cm - 122cm) doors
Optional sizes can be special ordered. Consult Technical Product Support.

Door Opening Height: Standard door height 7' (213mm), with the device centerline at 39-15/16" (101cm) from floor. Optional heights specify suffix -8, -9, -10.

Door Thickness: 1-3/4" (44mm) standard. 2" (51mm) and 2-1/4" (57mm); specify when ordering.

Minimum Stile Width: 2" (51mm).

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

Latchbolt: Top: 3/4" (19mm) stainless steel throw, pullman-type with automatic deadlatching. Bottom: 5/8" (16mm) throw deadbolt, held retracted during door swing.

Vertical Rods: 1/2" (13mm) O.D. tubular brass, bronze or stainless steel with rod guides.


Fasteners: Machine screws standard for panic hardware.


Dogging: Hex key dogging supplied standard

Options: Cylinder dogging, shim kit #724, sex nuts and bolts, -8, -9, -10 opening height, rod extensions, bottom pullman latch, MicroShield®, Lumi-Lite®

Warranty: 5-year limited
concealed vertical rod

7220

The 7220 is a narrow stile concealed vertical rod exit device to be used on narrow stile, aluminum and metal doors where two-point latching is desired.

features

- Designed for narrow stile doors
- Handed. Specify hand (field reversible)
- Bottom deadbolt for secure latching
- Fully adjustable roller strike

applications

- Pairs of narrow stile doors
- Metal and aluminum doors
- For panic-rated doors only

specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
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<tr>
<td>Door Opening Width</td>
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<td>-36 for 30' - 36' (76cm - 91cm) doors</td>
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<td>-48 for 36' - 48' (91cm - 122cm) doors</td>
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<td>Door Opening Height</td>
<td>Standard door height adjustable to 8' (244cm), with the device centerline at 39-15/16' (101cm) from floor. Optional heights specify suffix -9, -10</td>
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<td>Minimum Stile Width</td>
<td>2&quot; (51mm).</td>
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<td>Projection</td>
<td>3-1/4&quot; (83mm) active, 2-3/4&quot; (70mm) dogged</td>
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<tr>
<td>Latchbolt</td>
<td>Top: 3/4&quot; (19mm) stainless steel throw, pullman-type with automatic deadlatching. Bottom: 5/8&quot; (16mm) throw deadbolt, held retracted during door swing.</td>
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<tr>
<td>Vertical Rods</td>
<td>1/2&quot; (13mm) O.D. telescoping tubular rods</td>
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<td>Fasteners</td>
<td>Machine screws standard for panic hardware.</td>
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<tr>
<td>Trims</td>
<td>500F series escutcheon trim, 510F series pull/thumbpiece trim, 480F series offset pull trim. See pages 30-31.</td>
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<tr>
<td>Dogging</td>
<td>Hex key dogging supplied standard</td>
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<td>Options</td>
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trim designs for escutcheons

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<td>3&quot; (76mm)</td>
<td>3-1/16&quot; (78mm)</td>
<td>2-11/16&quot; (68mm)</td>
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Note: Projection dimensions are provided using the 620F series escutcheon plates.

Reflections®

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</table>

Note: Projection dimensions are provided using the 620F series escutcheon plates.
## 620F and 650F series escutcheon trim

- Certified ANSI/BHMA A156.3, Grade 1.
- Trim through-bolts to exit device for strength.
- Beveled sides improve attack resistance.
- Solid forged escutcheon and Free-Wheeling trim resists vandalism and abuse.
- Flush cylinder in 6-pin applications for additional security.
- 1-3/4" (44mm) door standard. For doors through 2-1/4" (57mm) or shim-mounted devices, specify on order.
- Dimensions: 3" x 10-1/4" x 13/16" (76mm x 260mm x 19mm).
- Cylinders not included. See page 42 & 44 for cylinder options. 1-1/2" mortise cylinder required for mortise trim.

### Trim ordering example:
AU626Fx 626 x RHR.

### Free-Wheeling
- Available with AR, AU, CR, JN, MO, PB, PN, VI, HA lever designs and CO, LF knob designs. See page 26.
  - Finishes: 605, 606, 609, 611, 612, 613, 613E, 616, 619, 620, 626, 629, 630, 693, 722
  - Finishes: 605, 606, 611, 612, 613, 613E, 619, 626, 629, 630, 722

### 5-year limited warranty.

### Application Cylinder

<table>
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<tr>
<th>Application</th>
<th>Cylinder</th>
<th>Classroom/ Storeroom Controls</th>
<th>Exit Only Blank Plate</th>
<th>Nightlatch Access by Key</th>
<th>Classroom/ Storeroom Controls</th>
<th>Nightlatch Cylinder by Knob</th>
<th>Passage Active Knob</th>
<th>Dummy Trim Rigid Knob</th>
<th>Classroom Cylinder Controls</th>
<th>Storeroom Cylinder Controls</th>
<th>Nightlatch Cylinder by Lever</th>
<th>Passage Dummy Trim Free-Wheeling</th>
<th>Dummy Rigid Lever</th>
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<td>Rim</td>
<td>603F⁵</td>
<td>620F</td>
<td>621F¹</td>
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1 09, 12 and Free Wheeling 02 achieved with single trim modification at installation.
2 Not recommended for use with vertical rod devices.
3 08 only
For 626, 629 & 630 finishes the escutcheon is plated to simulate stainless steel.
For 629 & 630 finishes the standard levers are plated to simulate stainless steel.
Free-Wheeling is not available on mortise trim.

For 620F series trim, optional door thickness available up to 4-1/2", specify on order.
7100 series trims

630F, 660F and 670F series pull/thumbpiece trim

- Certified ANSI/BHMA A156.3, Grade 1.
- Trim through-bolts to exit device for strength.
- Beveled sides improve attack resistance.
- Solid forged escutcheon resists vandalism and abuse.
- Flush cylinder in 6-pin applications for additional security.
- 1-3/4" (44mm) door standard. For doors through 2-1/4" (57mm) or shim-mounted devices, specify on order.
- Plate Dimensions: 2-3/4" x 15-1/2" x 5/8" (70mm x 394mm x 16mm).
- Pull Dimensions: 6-7/16' (164mm) on centers x 2-1/8" (54mm) projection.
- Cylinders not included. See page 42 & 44 for cylinder options. 1-1/2" mortise cylinder required for mortise trim.
- Finishes: 605, 606, 609, 612, 613, 613E, 616, 619, 620, 626, 629, 630, 693, 722
- Trim ordering example: 630F x 630
- 5-year limited warranty.

680F series offset pull trim

- 1-3/4" (44mm) door standard. For doors through 2-1/4" (54mm) or shim-mounted devices, specify on order.
- Plate Dimensions: 3" x 10-1/4" x 13/16" (76mm x 260mm x 21mm)
- Pull Dimensions: 7-1/4" (184mm) on centers x 2-13/32" (61mm) projection.
- Trim through-bolts to exit device for strength.
- Beveled sides improve attack resistance.
- Solid forged escutcheon resists vandalism and abuse.
- Flush cylinder in 6-pin applications for additional security.
- Cylinders not included. See page 42 & 44 for cylinder options. 1-1/2" mortise cylinder required for mortise trim.
- Finishes: 605, 606, 609, 611, 612, 613, 613E, 616, 619, 620, 626, 629, 630, 693, 722
- Trim ordering example: 681F x 630 x LHR
- 5-year limited warranty

For 626, 629 & 630 finishes the escutcheon is plated to simulate stainless steel.
SecureX® electrified options

The Yale® 7000 Series exit devices offer a complete range of electrical options. A continuity in appearance, security and functions with the 7000 Series mechanical exit device is maintained. These electrified exit devices may be integrated into the monitoring security and alarm systems of most buildings.

Electrified options

<table>
<thead>
<tr>
<th>Model #</th>
<th>Exit Device Description</th>
<th>A</th>
<th>B</th>
<th>D</th>
<th>G</th>
<th>H</th>
<th>O</th>
<th>P</th>
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Electrified hardware option descriptions

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Note: Any combination of the following options cannot be ordered together:
1) P, G, or D  
2) B or A  
3) D, B or A
*Only available for rim and SquareBolt® Devices when used with Delayed Egress option.

What normally took an hour or more to connect now takes minutes. Yale electrified exit devices and trims are equipped with ElectroLynx® connectors. As a standard feature, these “plug & play” connectors link power from the incoming source to electrified locking products, including hinges, locks, exit devices, magnetic holders and strikes.

Note: Electrified door hardware with ElectroLynx® connectors require a compatible number of lead wires attached to the door hinge.
SecureX® electrified options

**electric latch retraction “P”**

**Operation**
Allows the latchbolt to be retracted electrically for momentary or maintained periods of time from a remote location. The exit device bolt remains retracted for as long as the device is energized. Removal of power returns the device to the life safety, self-latching mechanical mode. Easy interface with central or local fire alarm systems, automatic door operators, and access control systems. Allows free egress at all times. Manual hex key dogging standard on non-rated devices.

**Electrical Specifications**
Solenoid Assembly
- Continuous duty
- 9 amp inrush
- Requires a 4-wire minimum pivot or hinge to transfer power from frame to door.
- Requires the 782 controller for operation (USING ANY OTHER POWER SUPPLY VOIDS THE WARRANTY OF THE DEVICE.)

**Listings**
UL/cUL listed for panic and fire exit hardware. Fire-rated devices must be wired into an automatic fire alarm system.

**Applications**
Rim: 7100(F), 7200, 7200M(F)
SquareBolt: 7150(F), 7250, 7250M(F)
SVR: 7110(F), 7170(F), 7210, 7210M(F)
CVR: 7120(F), 7160(F), 7220, 7220M(F)
Mortise: 7130(F)

**Ordering**
Suffix “P” to the Model Number. Ex: 7100P.

*Note: Not available on “D” delayed egress exit devices.*

**electric dogging “G”**

**Operation**
Provides continuous latch retraction and pushpad dogging simultaneously. When power is applied to the device, depressing the pushpad will retract the latchbolt and continuously hold down the pushpad in the unlock position for push/pull operation. Removal or interruption of power will release the pushpad and the latchbolt will extend and secure the opening. For use in areas that require quiet door operation.

Exit device allows free egress at all times.

**Electrical Specifications**
2 Holding Magnets
- .35 amps @ 24VDC
Requires a 2-wire pivot or hinge and a standard 24VDC regulated and filtered power source (Recommended BPS power supplies)

**Listings**
UL/cUL listed for panic and fire exit hardware.

**Applications**
Mortise: 7130(F) - lever functions only

**Ordering**
“Safe” – Maintains the outside trim in a locked state when energized. Removal of power unlocks outside trim.
“Secure” – Unlocks the outside trim when energized. Remains locked when power is removed.

Suffix “SAFE” or “SECURE” to the Model Number. Ex: 7130 x L5 x Safe.
SecureX® electrified options

Delayed Egress “D”

**Operation**
An exit door is normally closed and latched. The delayed egress device secures the door in the locked mode with the Red LED indicating locked mode status. Depressing the pushpad for less than three seconds will cause the device to beep without initiating the alarm. Depressing the pushpad for three seconds or longer will initiate an irreversible local audible beeping tone and a visual amber indicator. The person depressing the pushpad is denied egress for 15 or 30 seconds while alarm signals unauthorized egress. After the factory-set delay time (15 or 30 seconds), the device releases for egress, the LED changes to Green and the beep changes to a steady tone which continues to alarm until reset. The remote monitoring contact outputs can be used to alert security personnel.

*Note: The 15-second time delay is standard. (Optional 30-seconds may be accepted by local jurisdiction.)*

**Electrical Specifications**
- Input Voltage 24VDC (+/- 10%)
- Power Consumption: 750 mA
- Standard Device: 500 mA
- Device with Security Package: 750 mA
- Device with Electric Mortise
  - Trim Control: 1.25 Amps

**Certifications & Listings**
- UL/cUL Listed: FUKD/FUKD7 - Controlled Exit Panic Devices
- FWAX/FWAX7 - Special Locking Arrangements
- GXHX/GXHX7 - Fire Exit Hardware
- ANSI/BHMA Certified: A156.3 & A156.24
- U.S. Patent #: 7,469,942

**Applications**
- For use on hollow metal interior or exterior doors.
- Available for 7100(F), 7200M(F) and 7200 series rim, SquareBolt®, vertical rod and mortise panic and fire-rated exit devices. For surface vertical rod exit devices, rod and latch guards (provided by other) must be used.
- BOCA options available to comply with National Building Code requirements. BOCA option is not suitable for installations in accordance with NFPA 101.
- 1-3/4” door thickness standard; 2” and 2-1/4” optional; specify when ordering.
- Standard 36” device fits doors 35”- 36”. Device cannot be cut less than 35”.
- Option -48 fits doors 41” - 48”. Devices cannot be cut less than 41”.

**Standard Features**

**Key Switch Operation:**
- Normal: The system is armed by applying power to the device (solid Red LED). Depressing the pushpad for more than the nuisance delay time starts the exit delay cycle.
- Bypass: Turning the key switch clockwise to the bypass position allows immediate egress without alarming. The bar functions as a standard exit device (Red LED flashes slowly).
- Reset/Delay: Used to reset device after the factory-set 15 or 30-second delay cycle has timed out. Rearm: If the device is armed, turning the key counterclockwise to the reset mode will release the device without alarm for egress and will rearm after 10 seconds (Red LED flashes quickly).

**Local Visual Status Indicator:**
- RED: The exit device is secure and the delayed egress circuitry is energized.
- AMBER: The egress cycle has started, indicated by an irreversible local audible beeping tone.
- GREEN: The exit device is in alarm and has released.

**Nuisance Delay Time:**
- Depressing the pushpad for less than three seconds sounds an audible beep without activating the irreversible alarm sequence. (Immediate alarm can be selected by removing a jumper on the control board.)

**Internal Alarm Siren:**
- When armed, depressing the pushpad initiates the internal 85db alarm siren.

**Remote Control Inputs:**
- Remote Reset: Accepts a momentary contact (keys switch, pushbutton, etc) to reset the unit during alarm or allows momentary egress (10 seconds) when the unit is armed.
- Remote Bypass: Accepts a momentary contact to put the unit in a maintained bypass operation. The exit device functions as a standard device.

**Alarm Outputs:**
- Two sets of normally open and normally closed contacts. Contacts change only during alarm status. One set of contacts changes when device delay cycle has started (Alarm). One set of contacts changes when device has released (Secure).

**Door Sign:**
- Door sign per code included.
**SecureX® electrified options**

**delayed egress “D”**

**Options**

**Security Package “H”:**
- An internal door position switch that gives added security to the opening and is recommended. When using this option the alarm will sound if the door is not closed and latched when arming the device or if the door is forced open when the device is armed.
- To order, suffix “H”.
- NOTE: Available for 7100(F) Rim and 7150(F) SquareBolt® devices only.

**Latchbolt Position Monitor “S”:**
- Used to monitor the positions of the latchbolt or vertical rods (SPDT switch).
- To order, suffix “S”.
- See page 37 for more information.

**Trim Monitor Switch “O”:**
- Used when outside trim is desired. This switch will allow Bypass (disarms device) when the trim is used for ingress. The device will need to be reset upon entry by means of the keyswitch on the device or a remote switch.
- To order, suffix “O”.
- NOTE: If the security package or external DPS is not used, standard trim will allow entry without affecting the device in an armed mode. The device will only be affected when the pushpad is depressed.
- See page 37 for more information.

**NFPA 101 Requirements:**

15- & 30-Second Delay
- Upon depressing the pushpad for 3 seconds, the delayed egress device will sound an audible beeping tone and allow the door to be opened after 15 (or 30) seconds. The tone will then change to a continuous alarm until reset. Resetting of the alarm and re-arming of the device is accomplished by manual means only.
- To order, specify NFPA 15-second or NFPA 30-second.
- Purchase orders that do not have an option noted will default to the NFPA 15-second delay.
- NOTE: Where approved by the authority having jurisdiction, a delay not exceeding 30 seconds shall be permitted.

**BOCA Requirements:**

15- & 30-Second Delay
- Upon depressing the pushpad for 1 second, the delayed egress device will sound an audible beeping tone and allow the door to be opened within 15 (or 30) seconds. The tone will then change to a continuous alarm until reset. Resetting of the alarm and re-arming of the device occurs automatically once the door has been returned to the closed position for 30 seconds. The 30-second re-arming timer will re-start if the pushpad is depressed or the door is re-opened before actual re-arming of the device occurs. A DPS (Door Position Switch) is required for the BOCA option.
- To order specify BOCA 15-second or BOCA 30-second.
- Purchase orders that do not have an option noted will default to the NFPA 15-second delay.
- NOTE: An increase in the egress delay to 30 seconds shall not be permitted except as approved by the authority having jurisdiction.

**Electric Trim Control - “SAFE” or “SECURE”:**
- The mortise delayed egress exit device can be ordered with fail safe or fail secure outside trim operation. In a fire condition the fail safe trim will release for entry. When access control is used the fail secure trim allows entry by means of a remote card reader, keyswitch, pushbutton, etc.
- To order, suffix “Safe” or “Secure”.
- NOTE: The trim will open the door without affecting the device in an armed condition, if a door position switch is not used.

**required accessories**

**Power Supply:**
A regulated and filtered power supply with a fire alarm interface is required. 1 Amp minimum @ 24VDC per device. Special options will require more amperage. Consult factory. Recommend: BPS series.

**Power Transfer:**
Allows the power cable to make the transition from frame to door without pinching or removal of insulation.

**Cylinders**
Utilizes a 1-1/8” mortise cylinder with a 2160 cam. Cylinder not included unless specified. See page 44 & 45.

**Ordering**
Suffix “D” after device. Example: 7150FD
alarm kit & electric trim

alarm kit “A”

Activation: Alarm is armed by turning key clockwise. Low audible chirp indicates alarm has been activated. Alarm will sound when the exit device pushpad is depressed. Factory preset for standard alarm mode which automatically resets after 5 minutes.

Continuous Alarm Mode: Alarm sounds continuous when the exit device pushpad is depressed. Alarm must be manually reset by keyswitch. (This feature is selected by a switch on the circuit board.)

Low Battery Warning: Audible chirp.

Nuisance Alarm: Factory preset for instant alarm. Selectable feature for alarm to sound when pushpad is depressed for more than 2 seconds. (This feature is selected by a switch on the circuit board.)

Arming Delay/Authorized Egress: 10-second delay (after arming) permitting egress (by turning key clockwise).

Alarm Shunt: Ingress shunt alarm input for devices with alarm kit “A”.

Loudness: 90db @ 10 feet.

Power Requirements: One 9-Volt Battery (included).

Arm/Disarm: Uses one 1-1/8” straight cam mortise cylinder. Clockwise turn arms the alarm, counter clockwise turn disarms or silences the alarm.

Device Status: A Red LED indicator will illuminate every 30 seconds when the alarm is armed.

Tamper Resistant: Built-in safety monitor sounds alarm when tampering occurs.

Warning Decal: “EMERGENCY EXIT - ALARM WILL SOUND”

Applications: Rim: 7100(F), 7200, 7200M(F); SquareBolt®: 7150(F), 7250, 7250M(F); SVR: 7110(F), 7170(F), 7210, 7210M(F); Mortise: 7130(F), 7170(F), 7220, 7220M(F)

Kit: Available in kit form for field retrofit.

Bar Length: Available for 36”- 48” devices only. May not be used on bars less than 36”.

- Standard 36” device fits doors 35”-36” Device cannot be cut less than 35”.
- Option -48 fits doors 41”– 48”. Devices cannot be cut less than 41”.

How to Order: Specify 7116 for alarm kit. Suffix -“A” when ordering with device. Ex: 7150-A.

NOTE: The 7116 alarm kit cannot be retrofitted in the field to the 7110(F), 7170(F), 7210 or 7210M(F) devices. This option is available as a factory order only for these devices. Any attempt to retrofit the 7116 alarm kit with these surface vertical rod exit devices will void the warranties for these products.

electric trim

The electrified 600 series heavy-duty trim provides electric locking and unlocking of trim. Ideal for door control where increased security is necessary at all times, while meeting life safety codes. Electric trim is ideal for many applications, including stairwell towers, high-security areas, schools, hospitals, and factories.

Functions

690F Trim - Fail Safe
- Lever is locked when power is on (Free-Wheeling)
- Power off allows entry from trim
- Inside device is always active for egress
- Mechanical key override (09 Function - Key allows lever to retract latchbolt. Key can only be removed in locked position)

691F Trim - Fail Secure
- Lever is locked when power is off (Free-Wheeling)
- Power on allows lever activation for entry
- Inside device is always active for egress
- Mechanical key override (09 Function - Key allows lever to retract latchbolt. Key can only be removed in locked position)

Features
- Accepts all standard and Reflections® decorative lever designs
- Plug connector with 4’ wire lead (Exit device is used as wire raceway, not door)
- Key Override - Requires rim cylinder (sold separately)

Applications
- 7100(F) Rim Device
- 7150(F) SquareBolt®
- 7110(F), 7170(F) Surface Vertical Rod

Electrical Specifications
- 330 mA @ 24 Volts
- SM - Security Monitor Switch
- 4 AMP @ 250VAC
- Voltage: 24 VAC/VDC only
- BPS series power supplies recommended.

Options
- SM - Security Monitor. A SPDT switch that monitors the position of the solenoid (lock and unlock status).
- EX - Trim gasket for exterior applications.
monitors and signal switches

**touchbar monitor “B”**
Provides indication of the pushpad being depressed. Used as a Request to Exit switch to shunt alarm systems, release electromagnetic locks or monitor egress.

**Electrical Specifications:** 4 Amps @ 250VAC contacts
**Listings:** UL/cUL listed for panic and fire exit hardware.
**Applications:** Rim: 7100(F), 7200, 7200M(F)
SquareBolt®: 7150(F), 7250, 7250M(F)
SVR: 7110(F), 7170(F), 7210, 7210M(F)
CVR: 7120(F), 7160(F), 7220, 7220M(F)
Mortise: 7130(F)
**Ordering:** Suffix “B” to the Model Number. Ex: 7120B.

Note: Not available on “D” Delayed Egress devices or with the “A” Alarm kit option.

**latchbolt position monitor “S”**
Provides indication on the position of the latchbolt. Used with security systems to monitor the latchbolt, also used to activate automatic door operators upon latch retractions.

**Electrical Specifications:** SPDT contacts rated 5 amp @ 28VDC
**Listings:** UL/cUL listed for panic and fire exit hardware.
**Applications:** Rim: 7100(F), 7200, 7200M(F)
SquareBolt®: 7150(F), 7250, 7250M(F)
SVR: 7110(F), 7170(F), 7210, 7210M(F)
CVR: 7120(F), 7160(F), 7220, 7220M(F)
Mortise: 7130(F)
**Ordering:** Suffix “S” to the Model Number. Ex: 7120S.

**trim monitor switch “O”**
Provides indication of the trim being operated from the outside. Used as a Request to Enter signal switch to shunt alarms, also used to monitor entry.

**Electrical Specifications:** SPDT contacts rated 5 amp @ 28VDC
**Listings:** UL/cUL listed for panic and fire exit hardware.
**Applications:** Rim: 7100(F)
SquareBolt®: 7150(F)
SVR: 7110(F), 7170(F)
CVR: 7120(F), 7160(F)
Mortise: 7130(F)
**Ordering:** Suffix “O” to the Model Number. Ex: 7150O.
stand-alone door alarm

The SDA16 stand-alone battery operated door alarm is designed to continually monitor the status of a door. When the door is opened without authorization, an alarm is triggered to alert the security violation. This alarm features a Peizo horn which blasts a deafening 105+ decibels to alert the violation.

features

- Dimensions: 8.3"L x 3.1"W x 2.0"D (210mm L x 79mm W x 52mm D)
- Non-handed unit (field reversible)
- Unit powered by 9V battery
- Unit can be hardwired by using WH-11 wire harness and 784 power supply
- No battery is required in unit with hard-wire option – if power is lost, optional gel-cell battery in power supply will give approximately 10,000 operations
- Reverse battery protection safeguards the unit if the battery is incorrectly installed
- A low-voltage battery is indicated by an audible signal every 30 seconds
- Piezo horn blasts at 105+ decibels if the door is used without proper authorization
- The LED will flash every 30 seconds, indicating either the unit is armed or, if under auto reset, that the door has been violated
- Various field-adjustable features by dip switch including automatic alarm reset, REX and passage time delay, and LED color preference
- A tamper switch provides instantaneous signal to sound horn in the event the cover is removed. Horn will sound until the unit is reset by the key or remote reset/arm switch
- Conformally coated electronics for weather resistance
- Cover is held in place by cam lock which protects mounting screws, electrical system and internal sensors
- Accepts external cylinder (not included, must be specified)
- Accepts standard mortise cylinders (not included, must be specified)

remote mounting

The SDA16 can be installed remotely from the door by attaching the contacts to the door and frame. The unit can be installed up to 6 feet from the door. This provides the ideal solution for circumstances where exposure to weather may be an issue. To order specify "SDA16XL".

cylinders and accessories

- 784 Power supply (9VDC) — includes plug-in wall transformer
- Plug-in wall transformer with 12' cable assembly (part no. 00-0000-3425)
- Gel-cell battery — optional for use with 784 power supply (part no. 00-0000-3426)
- WH-11 Wire harness for remote power and remote unlock
- Mortise cylinder for unit
- Rim cylinder for outside control
- See pages 42 & 45 for cylinder information.
### 7000 series | architectural exit devices

#### facts and figures

**7100 Series**

(all variables)

<table>
<thead>
<tr>
<th>Series</th>
<th>“A”</th>
<th>“B”</th>
</tr>
</thead>
<tbody>
<tr>
<td>7100-36</td>
<td>32-7/8&quot; (835mm)</td>
<td>18&quot;</td>
</tr>
<tr>
<td>7100F-36</td>
<td>32-7/8&quot; (835mm)</td>
<td>18&quot;</td>
</tr>
<tr>
<td>7100-48</td>
<td>44-7/8&quot; (1130mm)</td>
<td>24&quot;</td>
</tr>
<tr>
<td>7100F-48</td>
<td>44-7/8&quot; (1130mm)</td>
<td>24&quot;</td>
</tr>
</tbody>
</table>

**7200 and 7200M Series**

(all variables)

<table>
<thead>
<tr>
<th>Series</th>
<th>“A”</th>
<th>“B”</th>
</tr>
</thead>
<tbody>
<tr>
<td>7200-36</td>
<td>34-5/8&quot; (880mm)</td>
<td>18&quot;</td>
</tr>
<tr>
<td>7200M-36</td>
<td>32-7/8&quot; (835mm)</td>
<td>18&quot;</td>
</tr>
<tr>
<td>7200MF-36</td>
<td>32-7/8&quot; (835mm)</td>
<td>18&quot;</td>
</tr>
<tr>
<td>7200-48</td>
<td>46-5/8&quot; (1184mm)</td>
<td>24&quot;</td>
</tr>
<tr>
<td>7200M-48</td>
<td>44-7/8&quot; (1130mm)</td>
<td>24&quot;</td>
</tr>
<tr>
<td>7200MF-48</td>
<td>44-7/8&quot; (1130mm)</td>
<td>24&quot;</td>
</tr>
</tbody>
</table>

#### trim dimensions

**620F/650F Series**

Projection:

13/16" (20mm)

**630F/660F Series**

Projection:

2-3/4" (70mm)

**500F Series**

Projection:

1/4" (6mm)

**510F Series**

Projection:

2-1/8" (54mm)

**680F Series**

Projection:

3" (76mm)

**480F Series**

Projection:

2-7/8" (73mm)

*Length varies by pull, see page 31
90 Series
Exit Device
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- 9900 Series Mortise Lock Exit Device ............................................................... 6
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### MicroShield®

As part of their promise to provide innovative solutions to their customers, certain ASSA ABLOY Group brands offer the MicroShield® technology, a silver-based antimicrobial coating designed to inhibit the growth of bacteria. MicroShield® is a registered trademark of Yale Security Inc., an ASSA ABLOY Group company.

#### MicroShield® Coating

- Revolutionary finish coating available on all SARGENT product lines, utilizes a silver-based antimicrobial compound from Agion Technologies
- As an integral part of the finish coating, MicroShield lasts for the life of the hardware
- MicroShield coating permanently suppresses the growth of bacteria, algae, fungus, mold and mildew. It is effective against a broad spectrum of bacteria.
- Non-toxic and completely safe. The Agion antimicrobial compound is EPA and NSF approved and FDA listed for use in medical and food preparation equipment.
- Applications: Anywhere there is need for a clean environment (hospitals, laboratories, schools, medical centers, daycare, food processing etc.)

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Agion has achieved:

- **Cradle to Cradle Certified®**

  Agion’s silver antimicrobial has been certified for its material content, recyclability, and manufacturing characteristics. Cradle To Cradle Certified® products meet established standards for human health, environmental health and recyclability.

  Cradle To Cradle Certified® is a certification mark of MBDC.
Features, Applications and UL Fire Door Ratings
90 Series Exit Devices

Features
• Full line of exit devices offering a selection of both wide and narrow stile exit devices, including concealed and surface vertical rods, rim and mortise
• Maximum 4-1/2" (114mm) projection, minimum 2-3/4" (70mm) dogged
• All SARGENT exit devices can be masterkeyed or grand masterkeyed with any other SARGENT product
• All crossbar assemblies are brass, bronze, stainless steel, or steel (see specific device)
• Stainless steel springs throughout
• Trim is through-bolted
• All exit devices meet ANSI standard 156.3, Grade 1
• UL Listed
• UL Listed to Canadian safety standards
• All fire exit hardware for hollow metal door applications listed up to 3 hours (A label) (Double doors require astragal)
• All fire exit hardware for wood door applications listed up to 1-1/2 hour (B label) except where noted

Applications

Single Door

<table>
<thead>
<tr>
<th>Type Of Device</th>
<th>Series Device</th>
<th>Maximum Door Opening</th>
<th>(A) 3 Hour</th>
<th>(B) 1-1/2 Hour</th>
<th>(C) 3/4 Hour</th>
<th>(D) 1-1/2 Hour</th>
<th>(E) 3/4 Hour</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mortise</td>
<td>12-9900</td>
<td>40&quot; x 100&quot; (1219 x 3048)</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Rim</td>
<td>12-9800 **</td>
<td>40&quot; x 80&quot; (1219 x 2438)</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Concealed</td>
<td>12-9400</td>
<td>40&quot; x 72&quot; (1219 x 1864)</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
</tbody>
</table>

Pairs of Doors without Mullion

<table>
<thead>
<tr>
<th>Type Of Device</th>
<th>Series Device</th>
<th>Maximum Door Opening</th>
<th>(A) 3 Hour</th>
<th>(B) 1-1/2 Hour</th>
<th>(C) 3/4 Hour</th>
<th>(D) 1-1/2 Hour</th>
<th>(E) 3/4 Hour</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vertical Rod Type 9700 or Concealed Vertical Rod Type 9400 - 2 Each</td>
<td>Surface application.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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Pairs of Doors with 980 Mullion

<table>
<thead>
<tr>
<th>Type Of Device</th>
<th>Series Device</th>
<th>Maximum Door Opening</th>
<th>(A) 3 Hour</th>
<th>(B) 1-1/2 Hour</th>
<th>(C) 3/4 Hour</th>
<th>(D) 1-1/2 Hour</th>
<th>(E) 3/4 Hour</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rim Type 9800  - 2 Each</td>
<td>980 Mullion - 1 Each</td>
<td>Two independent active doors with full double door opening when required.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
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</table>

Pairs of Doors without Mullion

<table>
<thead>
<tr>
<th>Type Of Device</th>
<th>Series Device</th>
<th>Maximum Door Opening</th>
<th>(A) 3 Hour</th>
<th>(B) 1-1/2 Hour</th>
<th>(C) 3/4 Hour</th>
<th>(D) 1-1/2 Hour</th>
<th>(E) 3/4 Hour</th>
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<tbody>
<tr>
<td>Vertical Rod Type 9700 - 1 Each</td>
<td>Rim Type 9800</td>
<td>Both devices are surface applied. A coordinator is recommended.</td>
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<td></td>
<td></td>
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</table>

Applications continued

<table>
<thead>
<tr>
<th>Application Type Of Device</th>
<th>Series Device</th>
<th>Maximum Door Opening</th>
<th>(A) 3 Hour</th>
<th>(B) 1-1/2 Hour</th>
<th>(C) 3/4 Hour</th>
<th>(D) 1-1/2 Hour</th>
<th>(E) 3/4 Hour</th>
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</thead>
<tbody>
<tr>
<td>Single Doors</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mortise</td>
<td>12-9900</td>
<td>40&quot; x 100&quot; (1219 x 3048)</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Rim</td>
<td>12-9800 **</td>
<td>40&quot; x 80&quot; (1219 x 2438)</td>
<td>●</td>
<td>●</td>
<td>●</td>
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<tr>
<td>Concealed</td>
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<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
</tbody>
</table>

Pair of Doors swinging in the same direction

<table>
<thead>
<tr>
<th>Type Of Device</th>
<th>Series Device</th>
<th>Maximum Door Opening</th>
<th>(A) 3 Hour</th>
<th>(B) 1-1/2 Hour</th>
<th>(C) 3/4 Hour</th>
<th>(D) 1-1/2 Hour</th>
<th>(E) 3/4 Hour</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mortise and Surface Vertical Rod</td>
<td>12-9900 X 12-9700</td>
<td>80&quot; x 80&quot; (2438 x 2438)</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Two Rim With Mullion (12-980 available)</td>
<td>12-9800 X 12-9800</td>
<td>80&quot; x 80&quot; (2438 x 2438)</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
</tbody>
</table>

Note: Please contact door manufacturer for specifications regarding fire door construction

Any retrofit or other field modification to a fire rated opening can potentially impact the fire rating of the opening, and Sargent Manufacturing Company makes no representations or warranties concerning what such impact may be in any specific situation. When retrofitting any portion of an existing fire rated opening, or specifying and installing a new fire-rated opening, please consult with a code specialist or local code official (Authority Having Jurisdiction) to ensure compliance with all applicable codes and ratings.

SARGENT ASSA ABLOY

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9800 Series Rim Exit Device

90 Series Exit Devices

9800 Rim Exit Device

The 9800 Series exit devices are ordered with trim and shipped complete with the strike, screw packs and cylinder as required in one carton. The cross bars are cut to the correct length, based on door width.

Specifications

| For Doors | Wood or metal, 1-3/4” (44.5mm) thick standard. 2-1/4” (57mm) thick on order. Other door thickness, consult factory. 4-1/8” (105mm) minimum stile |
| Mounting | Supplied standard with wood and machine screws. Through-bolts available on order |
| Chassis Cover | Brass, bronze or stainless steel |
| Chassis | Nonferrous alloy |
| Crossbar | 1” brass, bronze and stainless steel tubing. Specify 42- for reinforced cross bar |
| Hand | Reversible |
| Dogging | Standard Allen key dogging |
| Strike | 649 standard strike for panic and fire |
| Fire Exit Hardware | See chart page 1 |

649 Strike

- For 9800 and 12-9800
- Supplied standard
- Surface applied
- Black nylon coated

Alternate Strikes for Rim Devices 9800

- 613 Half mortised
  - Nylon coating on face plate only
  - Specify hardware finish

- 642 Full mortised
  - Dimension “L” equals door thickness plus 1/2”
  - Nylon coating on lip only
  - Specify hardware finish

- 644 Surface applied
  - For use on pairs of doors without mullion
  - Black nylon coated
### 700 Series ET Trim

Exits with ET Trim, specify lever design after the ET designation (e.g., ET) as follows:

<table>
<thead>
<tr>
<th>SARGENT Function Numbers</th>
<th>ANSI Function Numbers</th>
<th>Description &amp; Cylinder Info (1-3/4&quot; Door)</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>04 03</td>
<td></td>
<td>Night Latch Key Retracts Latch #34 Cylinder Supplied</td>
<td>9804 ET</td>
</tr>
<tr>
<td>10 01</td>
<td></td>
<td>No outside Operation (No Cylinder)</td>
<td>9810</td>
</tr>
<tr>
<td>10 02</td>
<td></td>
<td>No outside Operation (No Cylinder)</td>
<td>9810 ET</td>
</tr>
<tr>
<td>13 08</td>
<td></td>
<td>Key Outside Unlocks/locks Trim #41 Cylinder Supplied</td>
<td>9813 ET</td>
</tr>
</tbody>
</table>

### Lever Designs for ET Controls

**A, B, E, F, J, L, P, W**

Also available with Coastal Series & Studio Collection Levers.

**Note:** Voltage must be specified for ET controls.

**PRK Knob Trim**

RK Trim with K knob is through-bolted to the chassis.

**To order:**

PRK trim less exit device, specify: 814-PRK for 04 function, 820-PRK for 10 function, 823-PRK for 13 function, and 825-PRK for 15 function.

### Pull & Thumb Piece Trim Section

**Trim Designations**

- Use three letter designations (Ex: “PTB”) when ordering the exit device with trim.
- Use the six digit designation (Ex: “866-MAL”) when ordering trim without an exit device, always specify function.

<table>
<thead>
<tr>
<th>SARGENT Function Numbers</th>
<th>ANSI Function Numbers</th>
<th>Description &amp; Cylinder Info (1-3/4&quot; Door)</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>04 03</td>
<td></td>
<td>Night Latch Key Retracts Latch #34 Cylinder Supplied</td>
<td>9804 TR</td>
</tr>
<tr>
<td>10 02</td>
<td></td>
<td>No outside Operation or Cylinder (Pull Only)</td>
<td>9810 TR</td>
</tr>
<tr>
<td>28 15</td>
<td></td>
<td>Passage Only (No Cylinder)</td>
<td>9828 TR</td>
</tr>
<tr>
<td>63 05</td>
<td></td>
<td>Key Outside Unlocks/locks Trim #34 Cylinder Supplied</td>
<td>9863 TR</td>
</tr>
</tbody>
</table>

**Available Finishes**

<table>
<thead>
<tr>
<th>SARGENT Finishes</th>
<th>BHMA Finishes</th>
</tr>
</thead>
<tbody>
<tr>
<td>03</td>
<td>605</td>
</tr>
<tr>
<td>04</td>
<td>606</td>
</tr>
<tr>
<td>09</td>
<td>611</td>
</tr>
<tr>
<td>10</td>
<td>612</td>
</tr>
<tr>
<td>10B</td>
<td>613</td>
</tr>
<tr>
<td>10BE</td>
<td>613E</td>
</tr>
<tr>
<td>10BL</td>
<td>614</td>
</tr>
<tr>
<td>14</td>
<td>618</td>
</tr>
<tr>
<td>15</td>
<td>619</td>
</tr>
<tr>
<td>20D</td>
<td>624</td>
</tr>
<tr>
<td>26</td>
<td>625</td>
</tr>
<tr>
<td>26D</td>
<td>626</td>
</tr>
<tr>
<td>32</td>
<td>628</td>
</tr>
<tr>
<td>32D</td>
<td>630</td>
</tr>
</tbody>
</table>

**9800 Panic & Fire**

**Mechanical Options:**

- 10-21
- 10A-21
- 10C-21
- 10-22
- 10A-22
- 10C-22
- 10-25
- 10A-25
- 10C-25
- 10-26
- 10A-26
- 10C-26

**Cylinder Options:**

- 10-63
- 10A-63
- 10C-63
- 11-63
- 11A-63
- 11C-63
- 11-70
- 11A-70
- 11C-70
- 11-72
- 11A-72
- 11C-72
- 11-73
- 11A-73
- 11C-73
- 11-74
- 11A-74
- 11C-74
- 11-75
- 11A-75
- 11C-75
- 11-76
- 11A-76
- 11C-76
- 11-77
- 11A-77
- 11C-77
- 11-78
- 11A-78
- 11C-78

**Note:** PRK trim is not available in 32(629) or 32D(630). Thumb piece trims for 63 and 66 function devices are identical and are identified as 66 function when trim is ordered separately.
9700 Series Surface Vertical Rod Exit Device

9700 Series Exit Device

The 9700 Series exit devices are ordered with trim and shipped complete with the strikes, screw packs and cylinder as required in one carton. The cross bars are cut to the correct door width and vertical rods are made to order, based on mounting position of the hardware and opening height.

Features

- Two point latching (top and bottom of the door)
- Top & bottom latchbolt projection adjustable through center case
- Standard bottom latch compatible with latchtrack thresholds (by others)
- Single and double door applications
- Devices are ANSI A156.3 – 2008 Grade 1
- UL Fire and Panic listed
- Rods are 1/2" (13mm) brass, bronze or stainless steel

Specifications for 9700 Series Exit

| For Doors | Wood or metal. 1-3/4" (44.5mm) thick standard. 2-1/4" (57mm) thick on order. Other door thickness, consult factory. 3' (76mm) minimum stile. Maximum door height 96" |
| Mounting | Supplied standard with wood and machine screws. Through-bolts available on order |
| Chassis Cover | Brass, bronze or stainless steel |
| Chassis | Nonferrous alloy |
| Crossbar | 1" brass, bronze and stainless steel tubing. Specify 42- for reinforced cross bar |
| Hand | Non Handed |
| Dogging | Standard Allen key dogging |
| Strikes | 646 top strike for panic & fire and 624 bottom strike for panic & 655 bottom strike for fire |
| Rod | 1/2" brass, bronze or stainless steel |
| Fire Exit Hardware | See chart page 1 |
| Opening Height | 84" (2134mm) Standard |

Inside Lever Assembly for 300 Series Aux Control

Attaches to top rod and engages with 300 Series Auxiliary Control. Packed standard with 306 and 313 Auxiliary Controls
Part #97-2378

648 & 653 Strikes (Alternate Strikes for 9700 SVR Devices)

648 Strike

For doors having transom panel applications
- Black nylon coated

653 Strike

Alternate for 12-9700
- Black nylon coated

646 Top Strike

- Standard Top Strike for both Panic & Fire (12-) Hardware
- Surface applied to frame
- Black nylon coated
- Replaces 629 Strike

624 Bottom Strike

- Standard for 9700
- Applied to surface of floor or to a flat threshold
- Black nylon coated

655 Bottom Strike

- Standard bottom strike for 12-9700 and 14-9700
- Stainless steel
- Black nylon coated
- Replaces 647 Strike
## 9700 Functions and Trims
### 90 Series Exit Devices

<table>
<thead>
<tr>
<th>How to order: Options</th>
<th>Series</th>
<th>Function</th>
<th>Trim</th>
<th>Hand</th>
<th>O/S Finish</th>
<th>I/S Finish</th>
<th>Door Width</th>
<th>Door Height</th>
<th>AFF</th>
</tr>
</thead>
<tbody>
<tr>
<td>700 Series ET Trim</td>
<td>SARGENT Function Numbers</td>
<td>ANSI Function Numbers</td>
<td>Description &amp; Cylinder Info. (1-3/4&quot; Door)</td>
<td>ANSI Type 2 9700 Panic &amp; Fire</td>
<td>Options</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>06</td>
<td>09</td>
<td>Key unlocks Trim, Trim retracts latch/ Trim relocks when key is removed #41 Rim Cylinder Supplied</td>
<td>9706 x ET_</td>
<td>9700</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>01</td>
<td>No outside Operation (No Cylinder)**</td>
<td>9710</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>02</td>
<td>No outside Operation (No Cylinder)** ET Control is used as Pull Only</td>
<td>9710 x ET_</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>08</td>
<td>Key Outside Unlock/Locks Trim #41 Cylinder Supplied</td>
<td>9713 x ET_</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>14</td>
<td>Passage Only (No cylinder)</td>
<td>9715 x ET_</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>73</td>
<td></td>
<td>Electrified ET Trim - Fail Safe Power Off, Unlocks Lever (No Cylinder)**</td>
<td>9773 x ET_</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>74</td>
<td></td>
<td>Electrified ET Trim - Fail Secure Power Off, Locks Lever (No Cylinder)**</td>
<td>9774 x ET_</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Note: Exit devices are available in all standard finishes, except 14, 15, 26 & 26D. With these finishes, exit devices are supplied in 32 or 32D to match accordingly. For nickel finishes, specify 14/32 or 15/32D to receive nickel finished trims and stainless exit devices.

Note: AFF means Above Finished Floor, center line of rail Above Finished Floor

** Cylinder Override is available with a 306 Aux Control

Example Order: 9773F 12V x ETMG x 306 x RHR x 32D 36" x 84"H

### 300 Series++ Auxiliary Control

<table>
<thead>
<tr>
<th>SARGENT Function Numbers</th>
<th>ANSI Function Numbers</th>
<th>Description &amp; Cylinder Info. (1-3/4&quot; Door)</th>
<th>9700 Panic &amp; Fire</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>06</td>
<td>12</td>
<td>Key unlocks Turn/Turn retracts latch/ Turn relocks when key is removed #41 Rim Cylinder Supplied</td>
<td>9710 x 306</td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>11</td>
<td>Key Outside Unlock/Locks Turn #41 Cylinder Supplied</td>
<td>9710 x 313</td>
<td></td>
</tr>
</tbody>
</table>

Note: When ordering 9700 Series Exit Device x 300 Series Aux. Control, specify 10 Function for the exit. Example: 9770F x 306 x RHR x 32D x 42" x 90"

++ Note: Exit Devices must be mounted 38° AFF when used with a 300 Series Auxiliary Controls to meet ICC/ANSI A117.1-2003 Accessible & Usable Buildings and Facilities Code

### Pull & Thumb Piece Trim Section

<table>
<thead>
<tr>
<th>SARGENT Function Numbers</th>
<th>ANSI Function Numbers</th>
<th>Description &amp; Cylinder Info. (1-3/4&quot; Door)</th>
<th>9700 Panic &amp; Fire</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>02</td>
<td>Pull Only (No Cylinder)**</td>
<td>810-FLL</td>
</tr>
<tr>
<td>28</td>
<td>15</td>
<td>Passage Only (No cylinder)</td>
<td>828-FLW, 828-MAL, 828-PTB, 828-STS</td>
</tr>
<tr>
<td>63</td>
<td>05</td>
<td>Key Outside Unlock/Locks Trim #34 Rim Cylinder Supplied</td>
<td>866-FLL, 866-FLW, 866-MAL, 866-PTB, 866-STS</td>
</tr>
</tbody>
</table>

*** Cylinder Override is available with a 306 Aux Control

Note: Thumb piece trims for 63 and 66 function devices are identical and are identified as 66 function when trim is ordered separately

Note: FLW trim is not available in 32(629) or 32D(630)

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9900 Series Mortise Lock Exit Device

9900 Mortise Lock Exit Device

The 9900 Series exit devices are ordered with trim and shipped complete with the strike, screw packs and cylinder as required in one carton. The cross bars are cut to the correct length, based on door width.

Specifications

| For Doors | Wood or metal. 1-3/4" (44.5mm) thick standard. Other door thickness, consult factory. 4-1/2" (114mm) minimum stile |
| Mounting | Supplied standard with wood and machine screws. Through-bolts available on order |
| Chassis Cover | Brass, bronze or stainless steel |
| Chassis | Nonferrous alloy |
| Crossbar | 1" brass, bronze and stainless steel tubing. Specify 42- for reinforced cross bar |
| Hand | Handed, please specify hand when ordering |
| Mortise Lock | 900 Series Mortise Lock, non-reversible |
| Dogging | Standard Allen key dogging |
| Strike | C908 standard for panic and fire rated |
| Fire Exit Hardware | See chart page 1 |

C908 Strike

- Curved lip ANSI A115.1
- Handed. 1-1/4" lip standard
- Longer lips in increments of 1/4" through 2-7/8" available
- Black nylon coated

815 Open Back Strike

- ANSI A115.14 Open Back
- Beveled 1/8" in 2'
- Specify hand of active door
- "B" label
- Required for pairs of doors with 9700 and 9900 on pair
- Black nylon coated

Single Door

Pair of Doors
# 9900 Functions and Trims

## 90 Series Exit Devices

### How to order:

<table>
<thead>
<tr>
<th>Options</th>
<th>Series</th>
<th>Function</th>
<th>Trim</th>
<th>Hand</th>
<th>O/S Finish</th>
<th>I/S Finish</th>
<th>Door Width</th>
</tr>
</thead>
<tbody>
<tr>
<td>10-SG-</td>
<td>99</td>
<td>13</td>
<td>ETL</td>
<td>RHR</td>
<td>26</td>
<td>32</td>
<td>36&quot;</td>
</tr>
</tbody>
</table>

## 700 Series ET Trim

Exits with ET Trim, specify lever design after the ET designation (e.g., ETl)

### Lever Designs for ET Controls

- A, B, E, F, J, L, P, W
- Also available with Coastal Series & Studio Collection Levers

**Note:** Voltage must be specified for 73, 74, 75 & 76 function ET trim with a 12v or 24v.

### PRK Knob Trim

PRK trim with K knob is through bolted to the chassis.

To order:
- PRK trim less exit device
- Specify: 814-PRK for 04 function
- Specify: 810-PRK for 14 function
- Specify: 825-PRK for 15 function

### Pull & Thumb Piece Trim Section

#### Trim Designations

- Use three letter designations (Ex “PTB”) when ordering the exit device with trim.
- Use the six digit designation (Ex “866-MAL”) when ordering trim without an exit device, always specify finish & hand.

#### Available Finishes

<table>
<thead>
<tr>
<th>SARGENT Finishes</th>
<th>BHMA Finishes</th>
</tr>
</thead>
<tbody>
<tr>
<td>03</td>
<td>605</td>
</tr>
<tr>
<td>04</td>
<td>606</td>
</tr>
<tr>
<td>09</td>
<td>611</td>
</tr>
<tr>
<td>10</td>
<td>612</td>
</tr>
<tr>
<td>10BE</td>
<td>613</td>
</tr>
<tr>
<td>10BL</td>
<td>613E</td>
</tr>
<tr>
<td>14</td>
<td>614</td>
</tr>
<tr>
<td>15</td>
<td>618</td>
</tr>
<tr>
<td>20D</td>
<td>619</td>
</tr>
<tr>
<td>26</td>
<td>624</td>
</tr>
<tr>
<td>26D</td>
<td>625</td>
</tr>
<tr>
<td>32</td>
<td>626</td>
</tr>
<tr>
<td>32D</td>
<td>629</td>
</tr>
<tr>
<td>63</td>
<td>630</td>
</tr>
</tbody>
</table>

**Note:** Thumb piece trims used with mortise lock exit devices are handed.

**Note:** Thumb piece trims for 63 and 66 function devices are identical and are identified as 66 function when trim is ordered separately.

**Note:** FLW trim is not available in 32(629) or 32D(630).

**Note:** Exit devices are available in all standard finishes, except 14, 15, 26 & 26D.

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9400 Series Narrow Stile
Concealed Vertical Rod Exit Device
90 Series Exit Devices

How to order: Options Series Function Hand Finish Door Width Door Height AFF
12- 94 04 RHR 32D 36" 84" 36"

Specifications

For Doors Metal doors with 1-3/4" (44.5mm) thickness only. Requires proper reinforcements
Mounting Supplied standard with machine screws.
Chassis Cover Brass, bronze or stainless steel
Chassis Nonferrous alloy
Crossbar 13/16" x 1-3/8" oval seamless tubing; standard length for doors up to 36"; crossbar available for doors 36-1/2' to 48'
Hand Field Reversible. Order as RHRB or LHRB
Dogging Standard Allen key dogging
Less dogging available, special order
Strikes 94-2390 top strike pack; 94-2391 bottom strike pack
Rod 3/8" solid steel (top); 1/2" steel tubing
Rods for doors 8'6" standard
Rods for doors 8'6" to 10'8" optional
Trim Night Latch Cylinder Retainer with 04 function; 862, 863, 864 pulls available separately
Opening Height 8'6" standard to 10'8" optional
Stile Width 2-1/8" minimum with 1/2" stop, single door;
1-3/4", pair of doors
Projection 4-7/8"; 3-1/8" depressed
Backset 1-3/8" on single door with 3/8" stop;
1" on pair of doors without mullion
Cylinder 41 Mortise cylinder
Supplied with 9404 / 12-9404 only;
Cylinder kit includes: Cylinder, Night Latch Cylinder Retainer, and mounting screws
Warranty 1 Year Limited
Certifications / Compliance ANSI A156.3 Grade 1; A117.1 Accessibility Code
Fire Exit Hardware See chart on page 1

Options

Mechanical Options:
12- 12U
H5-
Cylinder Options:
10-
10UL-
11-
11-21-
82-
F1-82-
BR-
SC-
SE-

9400 CVR Exit Device
The 9400 Series Exit Device is available with two functions:
9404 - Night latch
9410 - No outside operation (no cylinder)

9400 Night Latch Cylinder Retainer
• Key retracts latch
• Standard with 9404 & 12-9404
• Supplied with a # 41 Cylinder

94-2390 Top Strike
• Standard Top Strike for 9400

94-2391 Bottom Strike
• Standard Bottom Strike for 9400
• Strike to be flush with finish floor
9898 Reversible Rim Exit and Trim for the 9898 Rim Exit Device

90 Series Exit Devices

Specifications

For Doors: Wood or metal. 1-3/4" (44.5mm) thick standard. 2-1/4" (57mm) thick on order. Other door thickness, consult factory. 4-1/8" (105mm) minimum stile.

Mounting: Supplied standard with wood and machine screws. Through-bolts available on order.

Chassis Cover: Brass, bronze or stainless steel.

Chassis: Nonferrous alloy.

Crossbar: 1" brass, bronze and stainless steel tubing. Specify 42- for reinforced cross bar.

Hand: Non-handed.

Dogging: Standard Allen key dogging.

Strike: 649 Strike.

Fire Exit Hardware: Not available.

Available Trim Designs & Functions to be used with any 9898 Device:

- All trims are non-handed for 9898 devices.
- Determine available Trim Designs & functions with chart below.
- How to Order Trim: Specify "Product Designation" from the chart below and finish required.

Functions

<table>
<thead>
<tr>
<th>ANSI</th>
<th>Descriptions</th>
<th>ANSI</th>
<th>Descriptions</th>
<th>ANSI</th>
<th>Descriptions</th>
<th>ANSI</th>
<th>Descriptions</th>
<th>ANSI</th>
<th>Descriptions</th>
</tr>
</thead>
<tbody>
<tr>
<td>04</td>
<td>03 Key Retracts Latch #34 Cylinder Required &amp; Supplied</td>
<td>814-FLL x Finish</td>
<td>814-FLW x Finish</td>
<td>814-MAL x Finish</td>
<td>814-PTB x Finish</td>
<td>814-STS x Finish</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>02 No O/S Operation or Cylinder (Pull Only)</td>
<td>810-FLL x Finish</td>
<td>810-FLW x Finish</td>
<td>810-MAL x Finish</td>
<td>810-PTB x Finish</td>
<td>810-STS x Finish</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>01 No O/S Operation or Cylinder (Exit Only)</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>802-PTB x Finish</td>
<td>N/A</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>28</td>
<td>15 Passage Only (No cylinder)</td>
<td>828-FLL x Finish</td>
<td>828-FLW x Finish</td>
<td>828-MAL x Finish</td>
<td>828-PTB x Finish</td>
<td>828-STS x Finish</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>63</td>
<td>05 Key Outside Unlocks/locks Thumb Piece #34 Cylinder Required &amp; Supplied</td>
<td>866-FLL x Finish</td>
<td>866-FLW x Finish</td>
<td>866-MAL x Finish</td>
<td>866-PTB x Finish</td>
<td>866-STS x Finish</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Note: Thumb piece trims for 63 and 66 function devices are identical and are identified as 66 function when trim is ordered separately.

Note: FLW trim is not available in 32(629) or 32D(630)
ET Trim, Levers and Pulls
90 Series Exit Devices

ET Lever Controls

A Lever

- Handed

B Lever

ET lever trim can be used with most 90 Series exit devices. Easy operating lever handle allows convenient one-hand operation. ET Escutcheons are forged or cast brass and the levers are brass or bronze. Stainless steel is available.

ET Designations
(Used to order ET trim without device)
Specify: 704 x ET, 706 x ET, 710 x ET, 713 x ET, 715 x ET, 773 x ET, 774 x ET, 775 x ET & 776 x ET include lever design and finish and hand
Example: 713 x ETJ x 26D x RHR

Note: ET trim used with 90 Series device use standard ET trims with out a suffix

ET Lever Controls

A Lever

- Handed

B Lever

ET lever trim can be used with most 90 Series exit devices. Easy operating lever handle allows convenient one-hand operation. ET Escutcheons are forged or cast brass and the levers are brass or bronze. Stainless steel is available.

ET Designations
(Used to order ET trim without device)
Specify: 704 x ET, 706 x ET, 710 x ET, 713 x ET, 715 x ET, 773 x ET, 774 x ET, 775 x ET & 776 x ET include lever design and finish and hand
Example: 713 x ETJ x 26D x RHR

Note: ET trim used with 90 Series device use standard ET trims with out a suffix

ET Trim, Levers and Pulls
90 Series Exit Devices

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Example: 713 x ETJ x 26D x RHR

Note: ET trim used with 90 Series device use standard ET trims with out a suffix
Studio Collection Levers

90 Series Exit Devices

Features

- Studio Collection levers can be used with all SARGENT 90 Series exit devices with ET trim
- All levers - solid brass or stainless steel
- Available with all lever functions
- Finishes available: 03, 04, 09, 10, 10B, 10BE, 14, 15, 20D, 26, 26D, 32 & 32D
- Always specify hand

Centro Series

- MD
- MJ
- MP∞
- ND*
- NJ*

Notting Hill Series

- MQ
- MT∞
- MM
- MY*

Rialto Series

- MO
- MZ*

Aventura Series

- MB
- ME
- MF

Odéon Series

- MN∞
- MH
- MK∞
- MS
- MV
- MX*
- NS*
- NU*

Gramercy Series**

- RCM∞
- RAL∞
- REM∞
- RAM∞
- RAS∞
- RAW∞
- RAG∞
- RGM∞

* Lever returns within 1/2” (13mm) of door face
∞ Levers are not available with Simpli™ Roseless trim
**The Gramercy Levers are customized. Refer to the next page for ordering information
Panic Exit device with stand-alone Alarm
EMERGENCY EXIT DOORS

A security solution that is both simple and revolutionary

Where there is no justification for installing a sophisticated access-control and maintenance system, JPM has come up with this first mechanical Anti-Panic Push Bar that can sound an alarm if an unauthorised exit is made. The Push Bar Alarm is certified to EN 1125 CE standard, and is fitted with a stand-alone integrated alarm. A unique solution for small and medium-sized retail outlets with high exposure to theft.

Technical datas

Rim panic exit device with horizontal action touch bar and stand-alone alarm

- Versions:
  Side latch rim lock (1 latch)
  Top and bottom rim lock (2 latches)
  Side, Top and Bottom rim lock (3 latches)
- Non handed
- Main case with cross follower
- Bar adjustable on site (400 to 200 mm depending on models). Bar must remain equal to 60% of the door width.
- Maximum projection: 60 mm
- Resistance to corrosion - 96 hours in salt spray or 240 for multipoints version
- In compliance with security regulations against fire in public places (art. C045)
- 9 VDC battery supplied
- Can be fitted on two hours fire - Rated doors
- Cylinder: 40 mm - Half european type cylinder - Sold separately

PUSH BAR 90+ 1 side latch
- Deadlocking latch bolt preventing the retraction of the horizontal bolt from outside, and which effectively contributes to the door’s resistance to fire.

PUSH BAR 90+ top and bottom latches
- Top and bottom latches with automatic relatching, keeping the latches retracted when the door is open (thus avoiding contact with the floor)
- Anti-picking device on top and bottom latches for improved resistance to breaking and entering from outside, and an excellent resistance to fire
- Set of threaded rods and protective rod covers

PUSH BAR 90+ Side + top and bottom latches
- Top and bottom latches with automatic relatching, keeping the latches retracted when the door is open (thus avoiding contact with the floor)
- Anti-picking device on top and bottom latches for improved resistance to breaking and entering from outside, and an excellent resistance to fire
- Set of threaded rods and protective rod covers
- Certification NF QE+C.
- Mark CE - EN1125.

SAFETY:
- Products holder of the NF mark.
- Products designed for fitting to Emergency Exits.
- Standard models can be fitted to fire-rated door units.
- CE EN-1125 approved.

THE CHARACTERISTICS approved by the NF mark are:
- Opening with a weak push by elderly people or children.
- Opening in a situation of panic.
- Endurance, durability, resistance.
- In compliance with security regulations against fire in public places (art. C045).

PERFORMANCE:
- Top and bottom latches with automatic relatching, keeping the latches retracted when the door is open (thus avoiding contact with the floor).
- Anti-picking device on top and bottom latches for improved resistance to breaking and entering from outside, and an excellent resistance to fire.
- Resistance to corrosion - 96 hours in salt spray or 240 for multipoints version.
- 90 Db alarm.
- Flashing red LED.
- Key resetting.
- 9 VDC battery.