# Product Catalog

**SARGENT**®
**ASSA ABLOY**

# 90 Series
## Exit Device

Experience a safer
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# Table of Contents

## 90 Series Exit Devices

## MicroShield®

ASSA ABLOY Group companies offer MicroShield®, an antimicrobial coating for door hardware. MicroShield uses proven silver ion-based technology from Agion®, a leading provider of antimicrobial solutions, to stem the spread of bacteria and other microbes.

MicroShield® is a registered trademark of ASSA ABLOY Access and Egress Hardware Group, Inc.

The Agion antimicrobial is not intended as a substitute for good hygiene. Coated products must still be cleaned to ensure the surfaces will be free of destructive microbes.
ASSA ABLOY makes no representations or warranties, express or implied, as to the efficacy of the Agion antimicrobial. A copy of the Agion warranty is available upon request. Agion is a registered trademark of Agion Technologies, Inc., Wakefield, MA, USA.

## EcoFlex®

- Reduces energy consumption up to 95% for exit trim, as certified by Green Circle, which lowers operating costs; assists with load reduction in optimizing energy performance credit in LEED, and reduces the number of power supplies requires.
- Field configurable to fail-safe or fail-secure, and operates from 12-24VDC, offering greater flexibility in system design.
- Innovative actuator design provides superior reliability through higher performance and reduced maintenance; the ability to have longer cable runs without negatively impacting lock function. It reduces the risk of voltage drops and eliminates inductive kickback, and lowers the total cost of owner ship.

⚠ **WARNING**

This product can expose you to lead which is known to the state of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65warnings.ca.gov.

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# UL Fire Door Ratings

**90 Series Exit Devices**

| ● = Available | | | | UL Fire Door Rating | | | | |
|---|---|---|---|---|---|---|---|---|
| Application | Type Of Device | Series Device | Maximum Door Opening | (A) 3 Hour | (B) 1-1/2 Hour | (C) 3/4 Hour | (D) 1-1/2 Hour | (E) 3/4 Hour |
| Single Doors | Mortise | 12-9900 | 4'0" X 10'0" (1219 X 3048) | ● | ● | ● | ● | ● |
| | Rim | 12-9800 ** | 4'0" X 8'0" (1219 X 2438) | ● | ● | ● | ● | ● |
| | Concealed | 12-9400 | 4'0" x 7'2" (1219 X 2184) | ● | ● | ● | ● | ● |
| Pair of Doors Swinging in the same direction | Mortise and Surface Vertical Rod | 12-9900 X 12-9700 | 8'0" X 8'0" (2438 X 2438) | ● | ● | ● | ● | ● |
| | Two Rim With Mullion (12-980 available) | 12-9800 X 12-9800 | 8'0" X 8'0" (2438 X 2438) | ● | ● | ● | ● | ● |
| | *Two Surface Vertical Rod No astragal No coordinator | 12-9700 X 12-9700 | 8'0" X 8'0" (2438 X 2438) | | ● | ● | ● | ● |
| | Two Concealed Vertical Rod No overlapping astragal | 12-9400 X 12-9400 | 8'0"x 7'2" (2438 X 2184) | | ● | ● | ● | ● |
| Double Egress Pair of Doors Swinging in opposite directions | *Two Surface Vertical Rod | 12-9700 X 12-9700 | 8'0" X 8'0" (2438 X 2438) | ● | ● | ● | ● | ● |
| | *Two Concealed Vertical Rod | 12-9400 | 8'0" x 7'2" (2438 X 2184) | ● | ● | ● | ● | ● |

* Limited for Fire Doors listed by UL for this use. NFPA requires an astragal on 3 hour applications
** 75 and 76 functions are not available with 12- fire rated 9800 devices
Vertical rod applications will not work with astragal

**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.

# Features & Applications
## 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" (102mm); projection, minimum 2-7/8" (74mm) depressed.
- 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
- 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
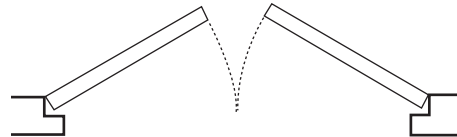- ADA Compliant
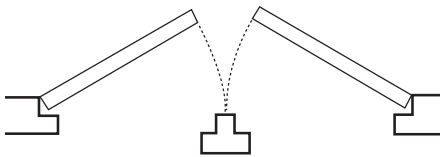
## Applications

### Single Door
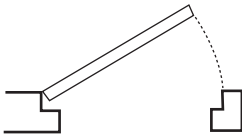


**Rim Type 9800**
Surface application.

### Pairs of Doors without Mullion



**Surface Vertical Rod Type 9700 or**
**Concealed Vertical Rod Type 9400 - 2 Each**
2 point locking both doors. Each door active.
Do not use an overlapping astragal.

### Pairs of Doors with 980 Mullion



**Rim Type 9800 - 2 Each**
**980 Mullion - 1 Each**
Two independent active doors with full double door opening when required.

### Pairs of Doors without Mullion
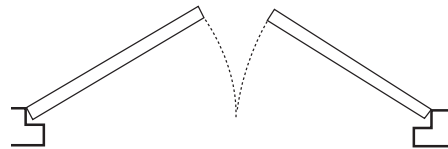


**Surface Vertical Rod Type 9700 - 1 Each**
**Rim Type 9800 - 1 Each**
Both devices are surface applied.
A coordinator is recommended.

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## 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; Field reversible. With 12- Fire Rated Option Handed; please specify hand when ordering |
| Dogging | Standard Allen key dogging (Not available on fire rated devices) |
| Strike | 649 standard strike for panic and fire |
| Fire Exit Hardware | See chart page 3 |
| Certification/Compliance ANSI | ANSI/BHMA156.3 - 2014 Grade 1 ADA Compliant |

## 649 Strike



1-5/32" (29mm)

3-11/16" (94mm)

3/4" (19mm)
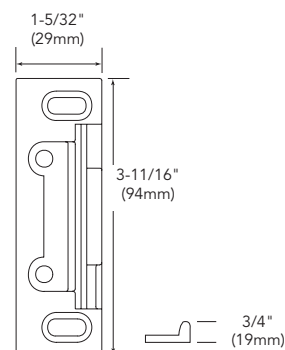
- For 9800 and 12-9800
- Supplied standard
- Surface applied
- Black nylon coated

## Alternate Strikes
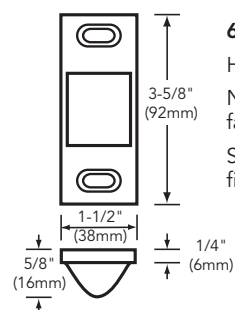


**613**

Half mortised

Nylon coating on face plate only

Specify hardware finish

3-5/8" (92mm)

1-1/2" (38mm)

5/8" (16mm)

1/4" (6mm)
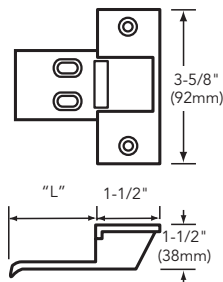


**642**

Full mortised

Dimension "L" equals door thickness plus 1/2"

Nylon coating on lip only

Specify hardware finish

3-5/8" (92mm)

"L"  1-1/2"

1-1/2" (38mm)
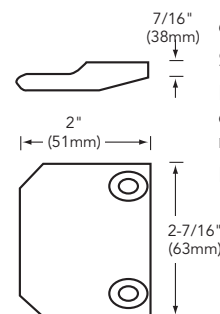


**644**

Surface applied

For use on pairs of doors without mullion

Black nylon coated

7/16" (38mm)

2" (51mm)

2-7/16" (63mm)

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# 9800 Functions and Trim
## 90 Series Exit Devices

| How to order: | Options<br>10-SG- | Series<br>98 | Function<br>13 | Trim<br>ETL | Hand<br>RHR | O/S Finish<br>26D | I/S Finish<br>32D | Door Width<br>36" |
|---|---|---|---|---|---|---|---|---|

**Options**

**9800**

### 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 trims (12v or 24v)

| SARGENT Function Numbers | ANSI Function Numbers | Description & Cylinder Info (1-3/4" Door) | ANSI Type 1<br>9800<br>Panic & Fire |
|---|---|---|---|
| 04 | 03 | Night Latch<br>Key Retracts Latch<br>#34 Cylinder Supplied | 9804 x ET_ |
| 10 | 01 | No outside Operation (No Cylinder) | 9810 |
| 10 | 02 | No outside Operation (No Cylinder)<br>ET Control is used as Pull Only | 9810 x ET_ |
| 13 | 08 | Key Outside Unlocks/locks Trim<br>#41 Cylinder Supplied | 9813 x ET_ |
| 15 | 14 | Passage Only (No cylinder) | 9815 x ET_ |
| 73 | | Electrified ET Trim - Fail Safe<br>Power Off, Unlocks Lever (No Cylinder) | 9873 x ET_ |
| 74 | | Electrified ET Trim - Fail Secure<br>Power Off, Locks Lever (No Cylinder) | 9874 x ET_ |
| 75++ | | Electrified ET Trim - Fail Safe<br>Power Off, Unlocks Lever, Key Retracts Latch<br>#34 Cylinder Supplied<br>NOT available with 12-9800 devices | 9875 x ET_ |
| 76** | | Electrified ET Trim - Fail Secure<br>Power Off, Locks Lever, Key Retracts Latch<br>#34 Cylinder Supplied<br>NOT available with 12-9800 devices | 9876 x ET_ |

**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

**Mechanical Options:**
12-
31-
36-
37-
42-
54-
76-
85-
86-
87-
CPC-
*** SG-
TB-

**Cylinder Options:**
10-
10-21-
10-63-
11-
11-21-
11-60-
11-63-
11-64-
11-70-7P-
11-72-7P-
11-73-7P-
11-65-73-7P-
21-
51-
52-
60-
63-
64-
70-
72-
73-
65-73-
65-73-7P-
73-7P-
81-
82-
F1-82-
83-
F1-83-
84-
BR-
LC-
SC-
SE-

*** Only available with 15, 26D, and 32D finishes

### 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

**Series**



9800 Panic & Fire

| SARGENT Function Numbers | ANSI Function Numbers | Description & Cylinder Info. (1-3/4" Door) | | | | | | Series<br>9800 Panic & Fire |
|---|---|---|---|---|---|---|---|---|
| 04 | 03 | Night Latch<br>Key Retracts Latch<br>#34 Cylinder Supplied | 814-FLL | 814-FLW | 814-MAL | 814-PTB | 814-STS | 862 Pull | 9804 x Trim Designation |
| 10 | 02 | No O/S Operation or Cylinder (Pull Only) | 810-FLL | 810-FLW | 810-MAL | 810-PTB | 810-STS | 862 Pull | 9810 x Trim Designation |
| 28 | 15 | Passage Only (No cylinder) | 828-FLL | 828-FLW | 828-MAL | 828-PTB | 828-STS | N/A | 9828 x Trim Designation |
| 63 | 05 | Key Outside Unlocks/Locks Trim<br>#34 Cylinder Supplied | 866-FLL | 866-FLW | 866-MAL | 866-PTB | 866-STS | N/A | 9863 x Trim Designation |

**Note:** Thumb piece trims for 63 and 66 function devices are identical and are identified as 66 function when trim is ordered separately
**Note:** Pulls and thumb piece trims are not available in 14, 15, 26 or 26D

### Available Finishes

| SARGENT Finishes | BHMA Finishes |
|---|---|
| 03 | 605 |
| 04 | 606 |
| 09 | 611 |
| 10 | 612 |
| 10B | 613 |
| 10BE | 613E |
| 10BL | 614 |
| 14 | 618 |
| 15 | 619 |
| 20D | 624 |
| 26 | 625 |
| 26D | 626 |
| 32 | 628 |
| 32D | 630 |
| BSP | — |
| WSP | |

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# 9898 Reversible Rim Exit and Trim
## 90 Series Exit Devices

**SARGENT®**
**ASSA ABLOY**

**Note:** If door width information is not supplied, SARGENT will supply a cross bar for a 44" door width

### Options

| 9898 |
| --- |

**Mechanical Options:**
12-
85-

**Cylinder Options:**
10-
11-
11-60-
11-63-
11-64-
21-
60-
63-
64-
81-
82-
F1-82-
83-
F1-83-
84-
BR-
CPC-
SG-***

*** Only available with 15, 26D, and 32D finishes

## 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; field reversible |
| Dogging | Standard Allen key dogging (Not available on fire rated devices) |
| Strike | 649 Strike |
| Fire Exit Hardware | Not available |

### 649 Strike

1-5/32" (29mm)
3-11/16" (94mm)
3/4' (19mm)
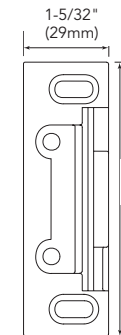
- For 9898
- Surface applied
- Black nylon coated

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

- All trims are non-handed for 9898 devices

**Product Designation**

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

**Note:** Thumb piece trims for 63 and 66 function devices are identical and are identified as 66 function when trim is ordered separately
**Note:** Pulls and thumb piece trims are not available in 14, 15, 26 or 26D

| How to order: | Options | Series | Function | Trim | Hand | O/S Finish | I/S Finish | Door Width |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| | 10-SG- | 99 | 13 | ETL | RHR | 26 | 32 | 36" |

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## Specifications

| | |
|---|---|
| Applications | Single and double door |
| 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.<br>Specify 42- for reinforced cross bar . |
| Hand | Non Handed |
| Dogging | Standard Allen key dogging (Not available on fire rated devices) |
| Latching | • Two point latching (top and bottom of the door)<br>• Top & bottom latchbolt projection adjustable through center case<br>• Standard bottom latch compatible with latchtrack thresholds (by others) |
| 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 3 |
| Opening Height | 84" (2134mm) Standard |
| Certification/ Compliance ANSI | • ANSI/BHMA156.3 - 2014 Grade 1<br>• ADA Compliant<br>• UL Fire and Panic listed |



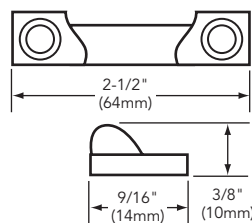### 646 Top Strike

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



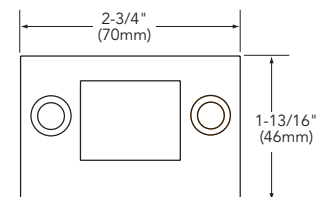1-5/32" (29mm)
3/4" (19mm)
1/4" (6mm)
3-11/16" (94mm)
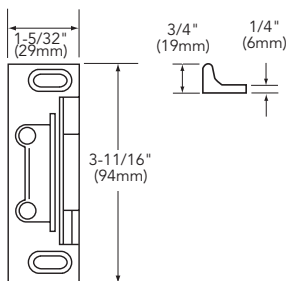
### 624 Bottom Strike

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



2-1/2" (64mm)
9/16" (14mm)
3/8" (10mm)

### 655 Bottom Strike

- Standard bottom strike for 12-9700 and 14-9700
- Stainless steel
- Black nylon coated
- Replaces 647 Strike



2-3/4" (70mm)
1-13/16" (46mm)

## 648 & 653 Strikes (Optional)

### 648 Strike

For doors having transom panel applications

Black nylon coated



7/16" (11mm)
1 7/8" (48mm)
2-1/2" (64mm)
1-1/8" (29mm)
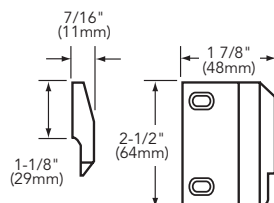
### 653 Strike

Alternate for 12-9700
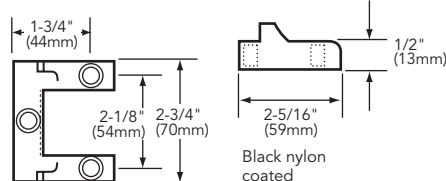


1-3/4" (44mm)
2-1/8" (54mm)
2-3/4" (70mm)
1/2" (13mm)
2-5/16" (59mm)

Black nylon coated

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### 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 function ET trims (12v or 24v)

| SARGENT Function Numbers | ANSI Function Numbers | Description & Cylinder Info. (1-3/4" Door) | ANSI Type 2 9700 Panic & Fire |
|---|---|---|---|
| 06 | 09 | Key unlocks Trim, Trim retracts latch/ Trim relocks when key is removed #41 Cylinder Supplied | 9706 x ET_ |
| 10 | 01 | No outside Operation (No Cylinder)** | 9710 |
| 10 | 02 | No outside Operation (No Cylinder)** ET Control is used as Pull Only | 9710 x ET_ |
| 13 | 08 | Key Outside Unlocks/locks Trim #41 Cylinder Supplied | 9713 x ET_ |
| 15 | 14 | Passage Only (No cylinder) | 9715 x ET_ |
| 73 | | Electrified ET Trim - Fail Safe Power Off, Unlocks Lever (No Cylinder)** | 9773 x ET_ |
| 74 | | Electrified ET Trim - Fail Secure Power Off, Locks Lever (No Cylinder)** | 9774 x ET_ |

**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"w x 84"H

### Options

**9700**

**Mechanical Options:**
12-
14-
31-
36-
37-
42-
54-
76-
85-
86-
87-
CPC-
*** SG-
TB-

**Cylinder Options:**
10-
10-21-
10-63-
11-
11-21-
11-60-
11-63-
11-64-
11-70-7P-
11-72-7P-
11-73-7P-
11-65-73-7P-
21-
51-
52-
60-
63-
64-
70-
72-
73-
65-73-
65-73-7P-
73-7P-
81-
82-
F1-82-
83-
F1-83-
84-
BR-
LC-
SC-
SE-

*** Only available with 15, 26D, and 32D finishes

### 300 Series++ Auxiliary Control

300 Series Auxiliary Control

### Inside Lever Assembly for 300 Series Aux Control

Attaches to top rod and engages with 300 Series Auxiliary Control.

Part # 97-2378

| SARGENT Function Numbers | ANSI Function Numbers | Description & Cylinder Info. (1-3/4" Door) | 9700 Panic & Fire |
|---|---|---|---|
| 06 | 12 | Key unlocks Turn; Turn retracts latch/ Turn relocks when key is removed #41 Cylinder Supplied | 9710 x 306 |
| 13 | 11 | Key Outside Unlocks/locks Turn #41 Cylinder Supplied | 9710 x 313 |

**Note:** When ordering 9700 Series Exit Device x 300 Series Aux. Control, specify 10 Function for the exit.
Example: 9710F 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

**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

**Series**

9700 Panic & Fire

| SARGENT Function Numbers | ANSI Function Numbers | Description & Cylinder Info. (1-3/4" Door) | | | | | | Series |
|---|---|---|---|---|---|---|---|---|
| 10 | 02 | Pull Only (No Cylinder)*** | 810-FLL | 810-FLW | 810-MAL | 810-PTB | 810-STS | 9710 x Trim Designation |
| 28 | 15 | Passage Only (No cylinder) | 828-FLL | 828-FLW | 828-MAL | 828-PTB | 828-STS | 9728 x Trim Designation |
| 63 | 05 | Key Outside Unlocks/ locks Trim #34 Cylinder Supplied | 866-FLL | 866-FLW | 866-MAL | 866-PTB | 866-STS | 9763 x Trim Designation |

*** 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:** Pulls and thumb piece trims are not available in 14, 15, 26 or 26D

### Available Finishes

| SARGENT Finishes | BHMA Finishes |
|---|---|
| 03 | 605 |
| 04 | 606 |
| 09 | 611 |
| 10 | 612 |
| 10B | 613 |
| 10BE | 613E |
| 10BL | 614 |
| 14 | 618 |
| 15 | 619 |
| 20D | 624 |
| 26 | 625 |
| 26D | 626 |
| 32 | 629 |
| 32D | 630 |
| BSP | — |
| WSP | |

| How to order: | Options | Series | Function | Trim | Hand | O/S Finish | I/S Finish | Door Width | Door Height | AFF |
|---|---|---|---|---|---|---|---|---|---|---|
| | 11- | 97 | 13 | ETL | RHR | 15 | 32D | 36" | 84" | 36" |

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## Specifications

| | |
|---|---|
| For Doors | Wood or metal. 1-3/4" (44.5mm) thick standard.<br>Other door thickness, consult factory. 4-1/2" (114mm) minimum stile |
| Mounting | Supplied standard with wood and machine screws.<br>Through-bolts available on order. |
| Chassis Cover | Brass, bronze or stainless steel |
| Chassis | Nonferrous alloy |
| Crossbar | 1" brass, bronze and stainless steel tubing.<br>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 (Not available on fire rated devices) |
| Strike | C908 standard for panic and fire rated |
| Fire Exit Hardware | See chart page 3 |
| Certification/Compliance ANSI | ANSI/BHMA156.3 - 2014 Grade 1<br>ADA Compliant |

## C908 Strike



1-1/4" (32mm)
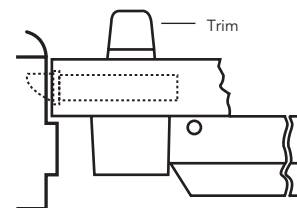3-3/8" (86mm)
4-7/8" (124mm)
1-1/4" (32mm)
3/32" (2mm)
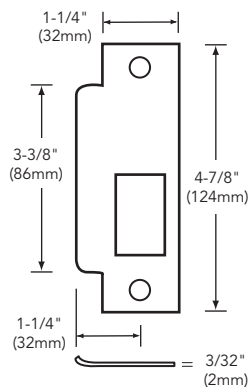
- Curved lip ANSI A115.1
- Handed. 1-1/4" lip standard
- Longer, lips in increments of 1/4" through 2-7/8" available
- Black nylon coated

## 815 Open Back Strike



3-3/8" (86mm)
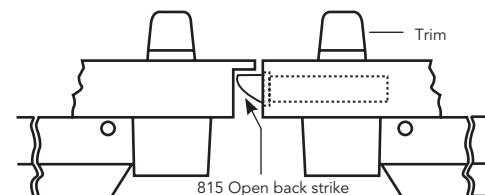4-7/8" (124mm)
1-1/4" (32mm)
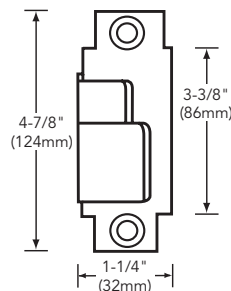
- ANSI A115.14 Open Back
- Beveled 1/8" in 2"
- Specify hand of active door
- "B" label
- Required for pairs of doors with 9700 and 9900 on pair
- Black nylon coated

## Single Door



Trim

## Pair of Doors



Trim

815 Open back strike

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### 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 trims (12v or 24v)

| SARGENT Function Numbers | ANSI Function Numbers | Description & Cylinder Info (1-3/4" Door) | ANSI Type 3 8900 Panic & Fire |
|---|---|---|---|
| 04 | 03 | Night Latch Key Retracts Latch #46 Cylinder Supplied | 9904 x ET_ |
| 10 | 01 | No outside Operation (No Cylinder) | 9910 |
| 10 | 02 | No outside Operation (No Cylinder) ET Control is used as Pull Only | 9910 x ET_ |
| 13 | 08 | Key Outside Unlocks/locks Trim #41 Cylinder Supplied | 9913 x ET_ |
| 15 | 14 | Passage Only (No cylinder) | 9915 x ET_ |
| 73 | | Electrified ET Trim - Fail Safe Power Off, Unlocks Lever (No Cylinder)** | 9773 x ET_ |
| 74 | | Electrified ET Trim - Fail Secure Power Off, Locks Lever (No Cylinder)** | 9774 x ET_ |
| 75++ | | Electrified ET Trim - Fail Safe Power Off, Unlocks Lever, Key Retracts Latch #46 Cylinder Supplied | 9975 x ET_ |
| 76** | | Electrified ET Trim - Fail Secure Power Off, Locks Lever, Key Retracts Latch #46 Cylinder Supplied | 9976 x ET_ |

**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

++ 75 Function without cylinder is available as a 73 Function

** 76 Function without cylinder is available as a 74 Function

### Options

**9900**

**Mechanical Options:**
12-
23-
31-
36-
37-
42-
54-
76-
85-
86-
87-
CPC-
*** SG-
TB-

**Cylinder Options:**
10-
10-21-
10-63-
11-
11-21-
11-60-
11-63-
11-64-
11-70-7P-
11-72-7P-
11-73-7P-
11-65-73-7P-
21-
51-
52-
60-
63-
64-
70-
72-
73-
65-73-
65-73-7P-
73-7P-
81-
82-
F1-82-
83-
F1-83-
84-
BR-
LC-
*SC-
*SE-

* Options are not available with the following functions: 04 x ET, 75 & 76
*** Only available with 15, 26D, and 32D finishes

### 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

| SARGENT Function Numbers | ANSI Function Numbers | Description & Cylinder Info. (1-3/4" Door) | | | | | Series |
|---|---|---|---|---|---|---|---|
| 04 | 03 | Night Latch-Key Retracts Latch #41 Cylinder Supplied | 814-FLL | 814-FLW | 814-MAL | 814-PTB | 814-STS | 9904 x Trim Designation |
| 10 | 02 | No O/S Operation or Cylinder (Pull Only) | 810-FLL | 810-FLW | 810-MAL | 810-PTB | 810-STS | 9910 x Trim Designation |
| 28 | 15 | Passage Only (No cylinder) | 828-FLL | 828-FLW | 828-MAL | 828-PTB | 828-STS | 9928 x Trim Designation |
| 63 | 05 | Key Outside Unlocks/locks Trim #41 Cylinder Supplied | 866-FLL | 866-FLW | 866-MAL | 866-PTB | 866-STS | 9963 x Trim Designation |

9900 Panic & Fire

**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:** Pulls and thumb piece trims are not available in 14, 15, 26 or 26D

### Available Finishes

| SARGENT Finishes | BHMA Finishes |
|---|---|
| 03 | 605 |
| 04 | 606 |
| 09 | 611 |
| 10 | 612 |
| 10BE | 613 |
| 10BL | 613E |
| 14 | 614 |
| 15 | 618 |
| 20D | 619 |
| 26 | 624 |
| 26D | 625 |
| 32 | 626 |
| 32D | 629 |
| BSP | 630 |
| WSP | — |

| How to order: | Options | Series | Function | Trim | Hand | O/S Finish | I/S Finish | Door Width |
|---|---|---|---|---|---|---|---|---|
| | 10-SG- | 99 | 13 | ETL | RHR | 26 | 32 | 36" |

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

**SARGENT®**
**ASSA ABLOY**

## 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 | 1" brass, bronze and stainless steel tubing. |
| Hand | Field Reversible. Order as RHRB or LHRB |
| Dogging | Standard Allen key dogging<br>Less dogging available, special order<br>(Not available on fire rated devices) |
| Strikes | 94-2390 top strike pack; 94-2391 bottom strike pack |
| Rod | 3/8" solid steel (top); 1/2" steel tubing<br>Rods for doors 8'6" standard<br>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" (102mm); 2-7/8" (74mm) depressed. |
| Backset | 1-3/8" on single door with 3/8" stop; 1" on pair of doors without mullion |
| Cylinder | 41 Mortise cylinder<br>Supplied with 9404 / 12-9404 only;<br>Cylinder kit includes: Cylinder, Night Latch Cylinder Retainer, and mounting screws |
| Warranty | 1 Year Limited |
| Certifications / Compliance | ANSI/BHMA 156.3 Grade 2; A117.1 ANSI Accessibility Code<br>ADA Compliant |
| Fire Exit Hardware | See chart on page 3 |

### Options

| 9400 |
|---|

**Mechanical Options:**
12-
85-

**Cylinder Options:**
10-
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
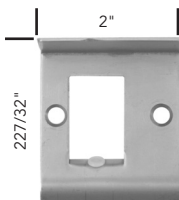
9410 - No outside operation (no cylinder)

## 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

2"
2 27/32"

## 94-2391 Bottom Strike

- Standard Bottom Strike for 9400
- Strike to be flush with finish floor

4-3/16"
1-3/8"

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

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## ET Lever Controls



8-1/16"
(205mm)

3-9/16" MAX
(90mm)

1-13/16"
(46mm)

13/16"
(21mm)

## A Lever (handed)



3-1/2"
(89mm)

13/16"
(21mm)

4-1/2"
(114mm)

## B Lever



3-1/8"
(79mm)

13/16"
(21mm)

4-5/8"
(117mm)

## E Lever



3"
(76mm)

13/16"
(21mm)

4"
(102mm)

## F Lever



3-1/4"
(83mm)

13/16"
(21mm)

4"
(102mm)

## J Lever



2-3/4"
(70mm)

13/16"
(21mm)

1/2"
(13mm)

4-11/16"
(119mm)

## L Lever*



2-3/8"
(60mm)

13/16"
(21mm)

1/2"
(13mm)

4-1/2"
(114mm)

## P Lever*



3"
(76mm)

13/16"
(21mm)

5/16"
(8mm)

4-15/16"
(125mm)

## W Lever



3"
(76mm)

13/16"
(21mm)

4-11/16"
(119mm)

## Studio collection

### 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, 10BL, 14, 15, 20D, 26, 26D, 32 & 32D, BSP, WSP
- Always specify hand

## Aventura Series

MB

ME

MF

NF

MG

MI

MW[1]

## Berlin Series

H015

H016[1]

H017

H018

## Centro Series

MD

MJ

MP[2]

ND[1]

NJ[1]

1. Lever returns within 1/2" (13mm) of door face
2. Not available in 32D or 32 finish

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# Studio Collection Levers
## 90 Series Exit Devices

**SARGENT**®

**ASSA ABLOY**

## Coastal Series
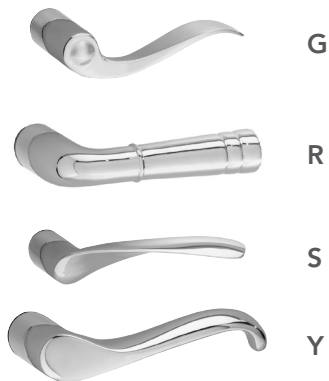
G

R

S

Y

## Gramercy Series[2]
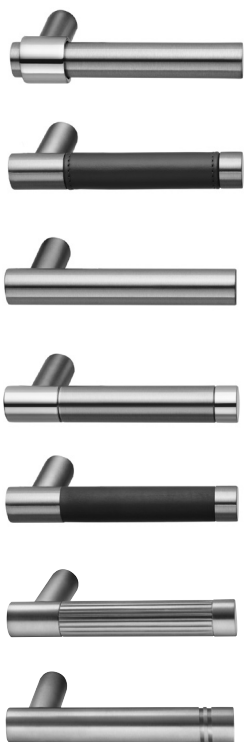
RCM

RAL

REM

RAM

RAS

RAG

RGM

## Notting Hill Series[3]
**(Handed Levers)**

MQ

MT

MO

MZ[1]

## Odéon Series[3]

MN

MH

MS

MU

MV

NU[1]

1. Lever returns within 1/2" (13mm) of door face
2. The Gramercy Levers are customized. Refer to the page 27 for ordering information
3. Not available in 32D or 32 finish

**SARGENT**®

**ASSA ABLOY**

## Pulls and Thumb Piece Trims

Pulls and trims are through-bolted.

Through-bolting of trim allows for perfect alignment of thumb pieces, cylinders and spindles.

Through-bolts pass through the chassis of the devices and are bolted directly to the trim.
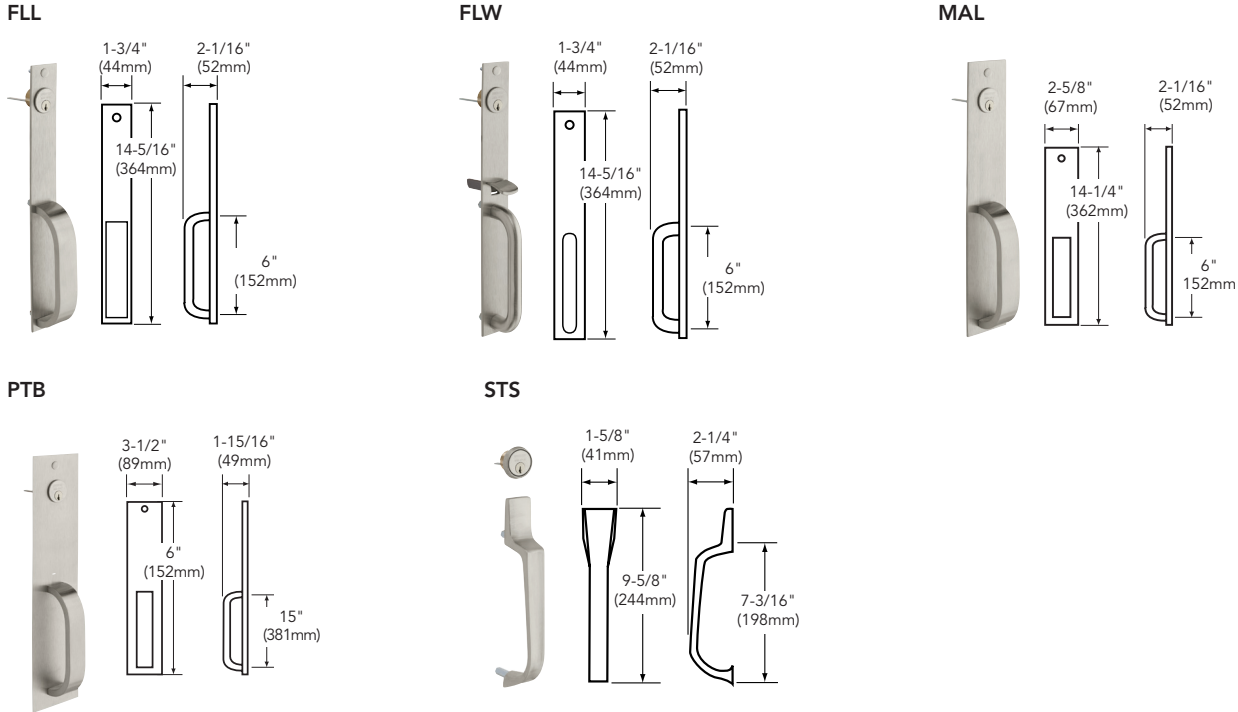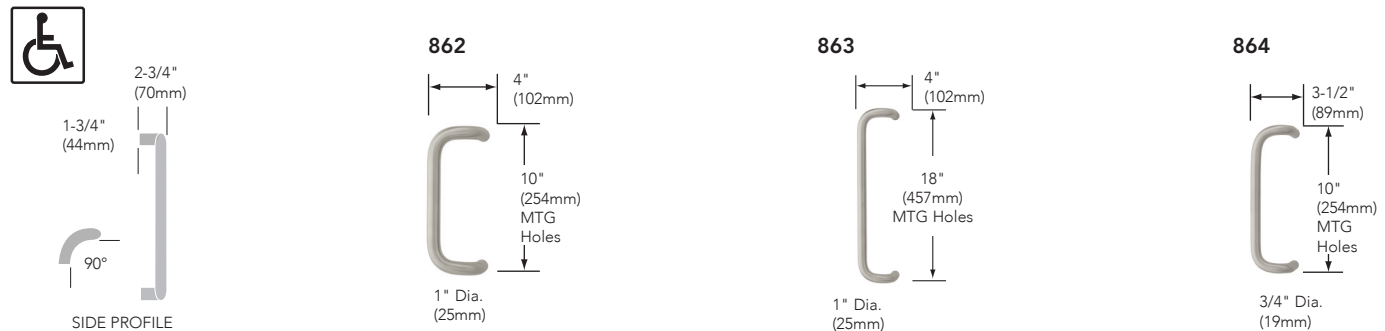
**FLL**

1-3/4" (44mm)  2-1/16" (52mm)

14-5/16" (364mm)

6" (152mm)

**FLW**

1-3/4" (44mm)  2-1/16" (52mm)

14-5/16" (364mm)

6" (152mm)

**MAL**

2-5/8" (67mm)  2-1/16" (52mm)

14-1/4" (362mm)

6" 152mm

**PTB**

3-1/2" (89mm)  1-15/16" (49mm)

6" (152mm)

15" (381mm)

**STS**

1-5/8" (41mm)  2-1/4" (57mm)

9-5/8" (244mm)

7-3/16" (198mm)

## Pulls

2-3/4" (70mm)

1-3/4" (44mm)

90°

SIDE PROFILE

**862**

4" (102mm)

10" (254mm) MTG Holes

1" Dia. (25mm)

**863**

4" (102mm)

18" (457mm) MTG Holes

1" Dia. (25mm)

**864**

3-1/2" (89mm)

10" (254mm) MTG Holes

3/4" Dia. (19mm)

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## 73 & 75 Electromechanical (Fail Safe)
## 74 & 76 Electromechanical (Fail Secure)

73 Functions: Fail Safe - Power Off, Unlocks Lever (No Cylinder)

74 Functions: Fail Secure - Power Off, Locks Lever (No Cylinder)

75 Functions: Fail Safe - Power Off, Unlocks Lever includes Cylinder override

76 Functions: Fail Secure - Power Off, Locks Lever includes Cylinder override

- 75 & 76 functions: the key retracts latch
- Exit Device always allows egress
- Features EcoFlex®
- Operates from 12-24 VDC. (Voltage must be specified)
- Actuator Draw = 400mA inrush / 15mA continuous @ 12VDC / 24VDC
- Provided with ElectroLynx® 8-Pin Connector

## 12VDC & 24VDC Power Supplies:

- UL Class 2 Listed
- Four 12V models and four 24V models available
- Integral battery charging capability keeps sealed lead acid gel/cell at full charge in case of line voltage failure (737-battery sold separately)
- Fused line voltage input with one, four, or eight DC outputs (depending on model)
- Each circuit can be individually turned on and off via a slide switch; the power status of each is shown by an LED
- In the event of a DC short the problem is confined to the zone of difficulty
- Fire alarm interface standard

### Requirements for Electrical and Data Transfer

To answer the demand for "smart" electronic access control and locking solutions that require fast, easy, and cost-effective installation, ASSA ABLOY Group brands use the ElectroLynx® standardized plug-in connectors and color-coded wiring system.

With ElectroLynx®, doorway components come pre-wired for easy hookup to the power source. Key to the system is the transfer device hinge that carries power from the frame to the locking hardware.
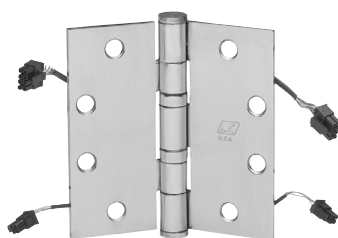
**Features of ElectroLynx®:**
- Makes it easy to bring power to the locking hardware
- Wires have connectors that snap together, like plugging a telephone into a jack

To connect Electrified Trim to the electronic access control system, the following items are required:

- Electrified Trim (73, 74, 75 & 76 function ET's)
- ASSA ABLOY Door Group pre-wired door, or ElectroLynx® retrofit cable (order from McKINNEY)
- Electronic transfer device (ElectroLynx® electronic transfer hinge or Electrical Power Transfer with standard hinge, from McKINNEY)
- ElectroLynx® cable from the hinge to above the ceiling (order from McKINNEY)

Information regarding cable selection, hinge requirements and order strings can be found in the McKINNEY Transfer Device Solutions catalog. Consult 800-810-WIRE (9473) with questions on application specifications and requirements.

McKINNEY QC ElectroLynx® Hinges are recommended.

| SARGENT MODEL No. | DESCRIPTION |
|---|---|
| 3521 | 12V - 1 AMP POWER SUPPLY |
| 3541 | 12V - 3 AMP POWER SUPPLY |
| 737 | 12V - 5 AMP HOUR BACKUP BATTERY |

| SARGENT MODEL No. | DESCRIPTION |
|---|---|
| 3520 | 24V - 1 AMP POWER SUPPLY |
| 3540 | 24V - 2 AMP POWER SUPPLY |
| 3550 | 24V - 4 AMP POWER SUPPLY |
| 3570 | 24V - 6 AMP POWER SUPPLY |
| 738 | 24V - 5 AMP HOUR BACKUP BATTERY |

# Mullions: Aluminum, Steel and Electrified

**90 Series Exit Devices**

## Aluminum Mullions

| Product Designation | 650A | 980 | L980 |
|---|---|---|---|
| Description | Removable | Removable | Lockable |
| Material | Aluminum | Aluminum | Aluminum |
| Standard Finish | US28/Satin Anodized Aluminum | Prime Coat | Aluminum Prime Coat |
| Options | Specify "650A x 10B" for 313AN to match 10B | Specify "980A" for Anodized US28/ Satin Aluminum | Specify: "L980A" Anodized Aluminum Specify: "L980A x10B" for 313AN to match 10B |
| Stk Size | 96" | 86" | 86" |
| Max Stk Height | 120" | 120" | 120" |
| Pre-prepped | 658 Strikes Included | No | No |
| Cylinder Size | Not Required | Not Required | #41 |
| Shape | 1-1/2" x 2-1/2" | T Shaped 2-1/2" x 3" | T Shaped 2-1/2" x 3" |
| Misc. Information and Accessories | Includes 651 Stabilizers and imbedded Weather Stripping Top Retainer 94-2050 Bottom Retainer 94-2051 | Top Retainer - 511 Bottom Retainer - 502 Adapter for narrow transom: 507 - Aluminum Prime Coated 507A - Anodized Aluminum | All Cylinder Options Available Wall Mount Kit 98-2578 Top Ret Pack 98-2526 Bottom Ret Pack 98-2525 Cylinder Kit 980C1* |

## Electrified

| Product Designation | EL980 |
|---|---|
| Description | Electrical Lockable |
| Material | Steel |
| Standard Finish | Gray Paint |
| Options | Wall Mounting Kit: 98-2580 Top Ret Pack :98-2559 |
| Stk Size | 86" |
| Max Stk Height | 120" |
| Pre-prepped | No |
| Cylinder Size | #46 Only |
| Shape | Rectangular 2" x 3" |
| Misc. Information and Accessories | For use with Electric Strikes and Monitoring, Quick Connect Wiring Supplied Cylinder Kit 980C2* |

**\* Note:** Cylinder Kits must be ordered separately

## Steel Mullions

| Product Designations | HC980 | 980S | L980S | HCL980 | 12-HD980 |
|---|---|---|---|---|---|
| Description | Hurricane Code | Standard Mullion | Lockable | Lockable Hurricane Code | Heavy Duty |
| Material | Steel | Steel | Steel | Steel | Steel |
| Fire Rated | Specify 12-HC980 | Specify 12-980 | Specify 12-L980 | Specify 12-HCL980 | Specify 12-HD980 |
| Fire Rated Max Height | 96" | 96" | 96" | 96" | 120" |
| Finish | Gray Paint | Gray Paint | Gray Paint | Gray Paint | Gray Paint |
| Stk Size | 86" | 86" | 86" | 86" | 120" |
| Max Stk Height | 96" | 120" | 120" | 96" | 120" |
| Pre-prepped | No | No | No | No | No |
| Cylinder Size | Not Required | Not Required | #41 Std (#42 & #43 available) | #41 Std (#42 & #43 available) | Not Required |
| Shape | Rectangular 2' x 3" | Rectangular 2' x 3" | Rectangular 2' x 3" | Rectangular 2' x 3" | Rectangular 2' x 3" |
| Misc. Information | Designed for severe wind load conditions due to hurricanes or windstorms. Tested to Dade County Protocols & ASTM Standards | Channel Iron & Malleable iron top & bottom retainers. Mullions longer than 86" must be ordered as 12-option x 120" length and cut to size in the field. Fire rating is valid only up to 96" | Fire rated for 8'0" x 8'0" paired openings Mullions longer than 86" must be ordered as 12- option x 120" length and cut to size in the field. Fire rating is valid only up to 96" | See Notes Below | 12-HD980 is for pair of doors over 8'0" to 10'0" includes two piece strikes |
| Accessories | Top Ret Pack - 98-2599 Bottom Ret Pack - 98-2600 Top Retainer Shim Kit - 601 | Top Ret Pack - 98-2190 Bottom Ret Pack - 98-2191 Top Retainer Shim Kit - 601 | Wall Mounting Kit - 98-2579 Top Ret Pack - 98-2556 Bottom Ret Pack - 98-2556 Top Retainer Shim Kit - 601 Cylinder Kit - 980C1* | Top Retainer Pack: 98-2593 Bottom Retainer Pack: 98-2594 Top Retainer Shim Kit - 601 Cylinder Kit - 980C1* | Top Ret Pack - 98-2599 Bottom Ret Pack - 98-2600 Top Retainer Shim Kit - 601 |

**\* Note:** Cylinder Kits must be ordered separately

### Note for HC980/12-HC980 Mullions:

- Designed for severe wind load conditions due to hurricanes or tornadoes
- Tested to Dade County protocols and ANSI 250.13 ASTM Standards and FEMA 361
- 12- Fire labeled version
- Replacement lock kits are available for lockable mullions Part numbers for each model are listed in the price book

### HCL980 Mullion Information

- Model 12-HC-L980 may be supplied for doors UL fire rated up to and including 3 hrs not exceeding 8 ft in width and height
- Meets the following standards: ANSI 250.13, ASTM E330, ASTM 1886, ASTM 1996, TAS 201, TAS 202 & TAS 203

### Lockable Mullion Cylinder Kit Options

Lockable mullions are shipped without cylinders. Order Cylinder Mullion Kit separately.

- L980, L980A, L980S, HC-L980, SM980S, SM980S and SML990S are 10, 10-21-, 10-63-, 11-, 11-21-, 11-60, 11-63-, 11-64-, 11-72-7P-, 11-65-73-7P-, 11-73-7P-, 21-, 22-, 60-, 63-, 64-, 70, 72-, 73-, 65-73-, 65-73-7P-, 73-7P-, 81-, 82-, F1-82-, 83-, F1-83-, 84-, SC- & SE-
- EL980 are 10, 10-21-, 10-63-, 11-, 11-21-, 11-60, 11-63-, 11-64-, 11-72-7P-, 11-65-73-7P-, 11-73-7P-, 21-, 60-, 63-, 64-, 70, 72-, 73-, 65-73-, 65-73-7P-, 73-7P-, 81-, 82- & F1-82-

**Note:** See page 21 for option details

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## Split Mullions (Steel)

| Product Designations | SM980S | SML980S | SMEL980 |
|---|---|---|---|
| Description | Standard Mullion | Lockable | Electrical Lockable |
| Material | Steel | Steel | Steel |
| Finish | Gray Paint | Gray Paint | Gray Paint |
| Stk Size | 96" | 96" | 96" |
| Max Stk Height | 96" | 96" | 96" |
| Pre-prepped | No | No | No |
| Cylinder Size | Not Required | #41 Std (#42 & #43 available) | #46 Only |
| Shape | Rectangular 2" x 3" | Rectangular 2" x 3" | Rectangular 2" x 3" |
| Misc. Information | Not fire rated | Not fire rated | Not fire rated |
| Accessories | Top Ret Pack - 98-2190 Bottom Ret Pack - 98-2191 Top Retainer Shim Kit - 601 | Wall Mounting Kit - 98-2579 Top Ret Pack - 98-2559 Bottom Ret Pack - 98-2556 Top Retainer Shim Kit - 601 Cylinder Kit - 980C1* | Top Ret Pack - 98-2558 Bottom Ret Pack - 98-2556 For use with Electric Strikes and Monitoring, Quick Connect Wiring Supplied Cylinder Kit - 980C2* |

**\*Note:** Cylinder Kits must be ordered separately



**SM980S/SML980S**

# Mullion Accessories, Stabilizers and Door Coordinators
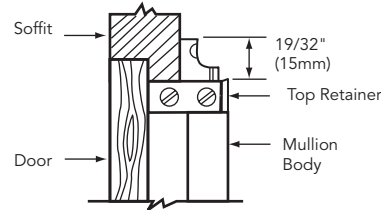
## 90 Series Exit Devices

**SARGENT®**

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## Mullion Accessories

### RK980

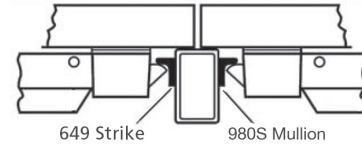Latchbolt assembly retrofit kit with top and bottom retainers for 980 aluminum mullion.

## 651 Mullion Stabilizer Kit
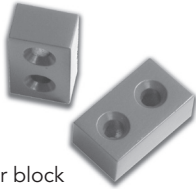
- Stabilizer block
- Furnished standard w/650A Mullion
- Order as a 651 Kit
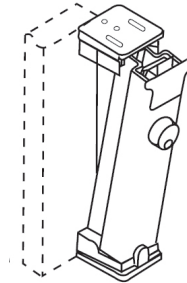
## 980C1 Cylinder Mullion Kit

- Lockable mullions only
- Aluminum and steel
- Includes cylinder and collar
- Available in 26D and 10B finish

## 980C2 Cylinder Mullion Kit

- Lockable mullions
- Electrified only
- Includes cylinder and collar
- Available in 26D

## 507 Narrow Transom Bars Adapter

- Available with 980 and 980A
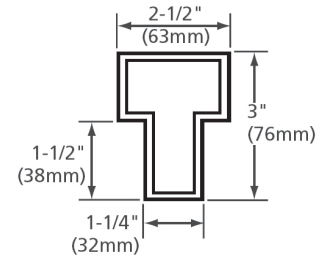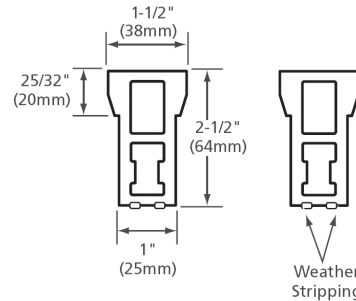- Required when soffit is 1-1/4" (32mm) to 2" (51mm) wide

Soffit → 19/32" (15mm)
→ Top Retainer
Door → Mullion Body

## 650A Mullion

1-1/2" (38mm)
25/32" (20mm)
2-1/2" (64mm)
1" (25mm)
Weather Stripping

## Mullion Weights & Packaging

| Product | | Avg Wt |
|---|---|---|
| Exit Device with Trim | 15 lbs | 1 ea |
| 980 Aluminum Mullion | 18 lbs | 1 ea |
| 12-980 Steel Mullion | 40 lbs | 1 ea |
| 650A Aluminum Mullion | 18 lbs | 1 ea |
| SM980S Split Mullion | 40 lbs | 1 ea |

## Cylinder Nut Wrench

This wrench simplifies the installation and removal of mortise cylinders nuts used on 700 Series Auxiliary Control (80 Series ET Trim).

- Part number 97-0568

## 980S & SM980S Mullion Application

- All steel mullions are 2" x 3"

649 Strike     980S Mullion

## 980 Mullion & L980 Lockable Mullion

2-1/2" (63mm)
3" (76mm)
1-1/2" (38mm)
1-1/4" (32mm)

## Lockable Mullion

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## Mechanical Options:

| | | |
|---|---|---|
| Fire Rated | **12-** | UL Fire Label Exit hardware |
| SVR Bolt | **14-** | Sliding bolt bottom case for 9700 |
| Alternate Strike | **23-** | 4-7/8" (124mm) ANSI flat lip strike (for 9900 Series Mortise Lock Exit Devices) |
| Thick Doors | **31-** | Doors over 1-3/4" and/or Panels (Specify door thickness, panel thickness & location as required) (Not available with 9400 Devices) Extended lip strike supplied for 9900 Series |
| Security Fasteners | **36-** | Six lobe security head screws |
| | **37-** | Spanner head screws |
| Reinforced Cross Bar | **42-** | Reinforced Cross Bar (Not available with 9400 Devices) |
| Electrical Options | **54-** | Monitors ET Lever movement with Internal micro switch in ET Control |
| Tactile Warning Options | **76-** | Tactile Warning - Milled Outside Lever (Not available with Studio & Coastal Levers and the A Lever) |
| | **85-** | Tactile Warning - Abrasive strip on Cross Bar |
| | **86-** | Tactile Warning - Abrasive coating on Outside Lever |
| | **87-** | Tactile Warning - Abrasive strip on Cross Bar & Abrasive coating on Outside Lever |
| Finish Protection | **CPC-** | Clear Powder Coat (Available for 32 & 32D Finishes) |
| | **SG-** | MicroShield® antimicrobial clear powder coat (only available with 15, 26D and 32D finishes) |
| Through Bolts | **TB-** | Through-bolts for 9900, 9800 & 9700 Devices |

**Note:** Tactile Warning with Knurled Cross Bars is available, please consult factory (not available with 9400 devices)

## Mounting Heights

- 36" (914mm) Cross Bar above finished floor for standard application



## Hand
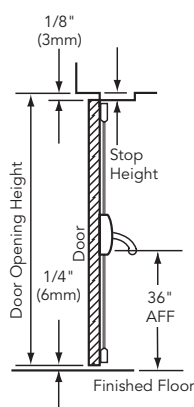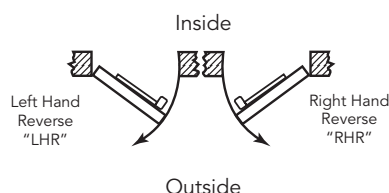
## Cylinder Options:

| | | |
|---|---|---|
| Degree Key System | **DG1-** | SARGENT Degree Key System Level 1 (bump resistant with patented keys) |
| | **DG1-21-** | Degree Level 1 Construction Master Keying |
| | **DG1-60-** | Degree Level 1 Removable Disposable Construction Core |
| | **DG1-63-** | Degree Level 1 Removable Core |
| | **DG1-64-** | Degree Level 1 Removable Construction Keyed LFIC |
| | **DG1-65-** | Degree Level 1 Unassembled/Uncombined Core |
| | **DG2-** | SARGENT Degree Key System Level 2 (geographically exclusive; bump and pick resistant) |
| | **DG2-21-** | Degree Level 2 Construction Master Keying |
| | **DG2-60-** | Degree Level 2 Removable Disposable Construction Core |
| | **DG2-63-** | Degree Level 2 Removable Core |
| | **DG2-64-** | Degree Level 2 Removable Construction Keyed LFIC |
| | **DG2-65-** | Degree Level 2 Unassembled/Uncombined Core |
| | **DG3-** | SARGENT Degree Key System Level 3 (geographically exclusive; UL437 certified; bump and pick resistant) |
| | **DG3-21-** | Degree Level 3 Construction Master Keying |
| | **DG3-60-** | Degree Level 3 Removable Disposable Construction Core |
| | **DG3-63-** | Degree Level 3 Removable Core |
| | **DG3-64-** | Degree Level 3 Removable Construction Keyed LFIC |
| Signature Key System | **10-** | SARGENT Signature Key System (Not Available with other Key Systems) |
| | **10-21-** | SARGENT Signature Construction Key System (Lost Ball) |
| Signature- LFIC Removable Core | **10-63-** | SARGENT Signature Removable Core Cylinder |
| XC- Key System | **11-** | XC Key System (Not available with other Key systems unless specified) |
| | **11-21-** | XC- Construction Key System (Lost Ball) |
| XC- Large Format Interchangeable Core (Removable Core) | **11-60-** | Device to accept XC- Permanent Removable Core, Disposable plastic Core- provided |
| | **11-63-** | Device provided with XC- Removable Core Cylinder - (Includes masterkeying, grand masterkeying) |
| | **11-64-** | Device provided with Keyed construction core to accept XC- Removable Permanent Core (ordered separately) |
| XC- Small Format Interchangeable Core | **11-70-7P-** | Device to accept XC- SFIC ( 7-Pin) XC- Permanent Cores, plastic disposable core provided |
| | **11-72-7P-** | Device to accept XC- SFIC (7-pin Keyed Construction Core provided) cylinder Permanent core ordered separately |
| | **11-73-7P-** | Device provided with XC- Small Format 7-Pin interchangeable core (Includes masterkeying, grand masterkeying) |
| | **11-65-73-7P-** | Device provided to accept XC- Uncombinated 7-Pin SFIC (Permanent) Core - (Packed Loose) |

**Note:** For V-10 Cylinders and information, contact ASSA, Inc @ 800-235-7482

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## Cylinder Options:

| | | |
|---|---|---|
| Construction Key Systems | **21-** | SARGENT Lost Ball Construction Keying for Conventional, XC and Signature Series (N/A with 63- or 73-) |
| | **22-** | SARGENT Construction Split Key System for Conventional Cylinders (Existing Systems Only) (N/A with 10-, 11-, 63- or 73-) |
| Old Style Removable Core | **51-** | Removable Core Cylinder (Old Style) provided (existing systems only) |
| | **52-** | Removable Construction Core (Old Style) Permanent core ordered separately (existing systems only) |
| Large Format Interchangeable Core (Removable Core) | **60-** | Device to accept SARGENT Permanent Removable Core, Disposable plastic Core provided (Permanent Cores ordered separately) |
| | **63-** | Device provided with Removable Core Cylinder - (Includes masterkeying, grand masterkeying) |
| | **64-** | Device provided with Keyed construction core to accept Removable Permanent Core (ordered separately) |
| Small Format Interchangeable Core | **70-** | Device to accept 6- or 7-Pin SFIC Permanent Cores, plastic disposable core provided |
| | **72-** | Device to accept 6- or 7-Pin SFIC (6-Pin Keyed Construction Core provided) Cylinder (Permanent Core ordered separately) |
| | **73-** | Device provided with 6-pin SFIC (Includes masterkeying, grand masterkeying) |
| | **65-73-** | Device provided to accept Uncombinated 6-Pin SFIC (Permanent) Core - (Packed Loose for field keying) |
| | **65-73-7P-** | Device provided to accept Uncombinated 7-Pin SFIC (Permanent) Core - (Packed Loose for field keying) |
| | **73-7P-** | Device provided with Small Format 7-Pin Interchangeable Core (Includes masterkeying, grand masterkeying) |
| Keso & Keso F1 | **81-** | Device provided with housings to accept Keso (83) & Keso F1 (F1-83-) removable cores. (Permanent Cores ordered separately) |
| | **82-** | Device provided with SARGENT Keso Security Cylinder |
| | **F1-82-** | Device provided with SARGENT Keso F1 Security Cylinder (Patented) |
| | **83-** | Device provided with SARGENT Keso Security Removable Core cylinder |
| | **F1-83-** | Device provided with SARGENT Keso F1 Security Removable Core cylinder (Patented) |
| | **84-** | Device provided with SARGENT Keso Construction Cores (Permanent Cores ordered separately) |
| Added Security | **BR-** | Bump Resistant Cylinder (Available with Conventional & Conventional XC Cylinders Only) |
| Less Cylinder | **LC-** | Less Cylinder - SARGENT supplies standard blocking rings for 1-1/8" Cylinders (For longer cylinders order collars/rings separately) |
| Schlage Keyways | **SC-** | Schlage C keyway cylinder, 0 bitted |
| | **SE-** | Schlage E keyway cylinder, 0 bitted |

## Rod Replacement Kits

| Product | Top Rod Kit * | Bottom Rod Kit ** |
|---------|---------------|-------------------|
| 3 | 670T | 670B |

**Note:** Finish Information Required
* Door Height & Rail Location Required
** Rail Location Required

## 571 Rod Extension Kits

- For use on surface mounted vertical rods
- Kits available in 6" (15.2cm), 12" (30.4cm) or 18" (45.7cm) lengths

To order: Specify length and finish
Example: 571-6" x 26D

## Through-bolts

| Device | Through-bolts | *Ordering |
|--------|---------------|-----------|
| 9800 | 4 | 97-2578 |
| 9900 | 4 | 97-2578 |
| 12-9800 | 4 | 97-2578 |
| 12-9900 | 4 | 97-2578 |
| 9700 | 14 | 97-2579 |
| 12-9700 | 14 | 97-2596 |

**\*Specify Finish**

To order Through-bolts, specify TB- Option. Examples: TB-9804 x FLL x RHR x 32D. Through-bolts and mortise nuts must be specified to mount fire exit devices on composite fire doors with steel, wood or plastic covering.

## Center Bearing Bracket



9700   12-9700   9800 & 9900
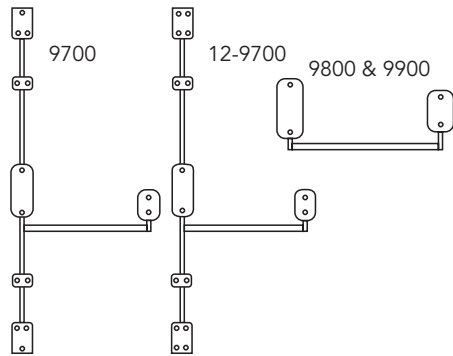
All exit devices used on doors 48" wide and wider will be furnished with a matching center bearing bracket at an additional charge. This bracket assists in supporting the long crossbar and adds an extra spring to help counter balance the crossbar.

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# Finishes and Finish Care
## 90 Series Exit Devices

### Finishes

| SARGENT # | BHMA# | Description | How to clean | Avoid these cleaners |
|---|---|---|---|---|
| 3 | 605 | Polished brass, clear coated | Mild non-abrasive detergent with damp cloth or sponge | Abrasive cleaners, bleach solvents, steel or bronze wool |
| 4 | 606 | Satin brass, clear coated | | |
| 9 | 611 | Polished bronze, clear coated | | |
| 10 | 612 | Satin bronze, clear coated | | |
| BSP | — | Black Suede Powder Coat | | |
| WSP | — | White Suede Powder Coat | | |
| 10B | 613 | Oxidized bronze, oil rubbed | Lemon oil polished with dry cloth | Abrasive cleaners, bleach solvents, steel or bronze wool |
| 10BE | 613E | Dark oxidized satin bronze, equivalent | | |
| 10BL+ | 614 | Oxidized satin, bronze, clear coated | Mild non-abrasive detergent with damp cloth or sponge | Abrasive cleaners, bleach solvents, steel or bronze wool |
| 20D | 624 | Statuary dark bronze, clear coated | | |
| 32**‡ | 629** | Polished stainless steel | | |
| 32D**‡ | 630** | Satin stainless steel | Plastic pad or bronze wool | Cleaners, solvents, bleach, steel wool |

+ **Note:** Finish not available, 9400 / 12-9400

** 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. 26 or 26D is automatically supplied as a trim finish when 32 or 32D is specified for the exit device finish. For nickel finishes, specify 14/32 or 15/32D to receive nickel finished trims and stainless exit devices.

**Note:** Arms Nickel Plated to match 32 and 32D
**Note:** FLW Trim is NOT available in 32 or 32D
**Note:** Pulls and thumb piece trims are not available in 14, 15, 26 or 26D except FLW which is available in 14 and 15.

### Lock/Cylinder Finish

| Device Finish | Cylinder/Core* |
|---|---|
| 03, 04, 09, 10, 10B, 10BE, 10BL, 20D | 04 |
| 32, 32D, WSP | 15 |
| BSP | BSP |

*Finish when cylinder provided with device

### To avoid discoloration and pitting:

- Keep stainless steel away from contact with other metals
- Avoid cleaning with mineral acids or chlorine products
- Avoid cleaning with abrasive products like sandpaper or steel wool

### To maintain the finish:

- Remove any contamination before damage occurs
- Protect with a metal polish or car wax

## How to Order Exit Devices

Example Order:

| 12- | 99 | 75 | ETMR | 12VDC | RHR | 26D | 32D | 36" | 84" | 36" |
|---|---|---|---|---|---|---|---|---|---|---|
| **Options** | **Device Type** | **Function** | **Trim** | **Voltage** | **Hand Finish** | **Outside Finish** | **Inside Finish** | **Door Width** | **Opening Height** | **AFF** |
| Available Options Listing Pgs 18-19 | 99 - Mortise | 04 - Night Latch | For ET trim specify ET followed by Lever design, See pages 13-16 | 12VDC | RHR | Available Finishes page 26 | Inside Finish Available Finishes page 25 | If door width is supplied Cross Bar will be cut to size | Required for Vertical Rod Exit Devices | 36" Cross Bar above finished floor for std application |
| | 98 - Rim | 06 - Night latch | | 24VDC | LHR | | | | | |
| | 97 - SVR | 10 - Dummy | | | | | | | | |
| | 94 - CVR Narrow | 13 - Classroom | Voltage required for Solenoid Controlled Functions - 73, 74, 75 & 76 | | | | | | | |
| | | 15 - Passage | For Thumb Piece Trims and Pulls specify Trim Designation as specified by Device Type | | | | | | | |
| | | 28 - TP Passage | | | | | | | | |
| | | 63 - TP Classroom | | | | | | | | |
| | | 73 - Solenoid Fail Safe | For 300 Series Auxiliary Controls; specify 306 or 313 with 10, 73 or 74 Function Devices | | | | | | | |
| | | 74 - Solenoid Fail Secure | | | | | | | | |
| | | 75 - Solenoid Fail Safe w/Cyl | | | | | | | | |
| | | 76 - Solenoid Fail Secure w/Cyl | | | | | | | | |

### Legend
AFF - Above Finish Floor
ET -  SARGENT External Lever Trim
CVR -Concealed Vertical Rod
TP -  Thumb Piece Trim
SVR - Surface Vertical Rod

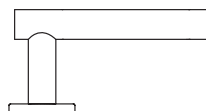Experience a safer and more open world

# Ordering Gramercy Series Levers

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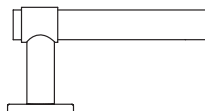**ASSA ABLOY**

## 90 Series Exit Devices
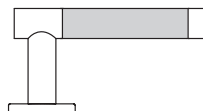
### Gramercy Series Levers

REM, RGM          RCM          RAG, RAL, RAM, RAS

### Gramercy Finish Codes

| ANSI/BHMA Finish | SARGENT Finish | Gramercy Code* | Description |
|---|---|---|---|
| 630 | 32D | 30 | Satin Stainless Steel |
| 629 | 32 | 29 | Bright Stainless Steel |
| 613E | 10BE | 3E | Dark Oxidized Satin Bronze, Equivalent |
| N/A | BSP | BS | Black Suede Powder Coat |
| N/A | WSP | WS | White Suede Powder Coat |
| N/A | N/A | BK | Black (Santoprene™ or leather insert) |
| N/A | N/A | BN | Brown (leather insert) |

*Code used to specify Gramercy Series finishes only. Use available finishes list to specify desired finish when ordering.

### Gramercy Lever Descriptions & Available Finishes

| Lever Designation | Lever Description | Available Finishes (AS ORDERED) |
|---|---|---|
| RAG | Grooved Insert | 3030, 2929, 2930, 3029, 3E3E, BSBS or WSWS |
| RAL | Leather Insert | 30BK30, 30BN30, 29BK30, 29BN30, 3EBK3E, BSBKBS, WSBKWS, 3EBN3E, BSB-NBS or WSBNWS |
| RAM | Satin Metal Insert | 2930 only (SEE NOTATION) |
| RAS | Santoprene Insert | 30BK30, 29BK29, 3EBK3E, BSBKBS or WSBKWS |
| RCM | Raised Band | 2930, 2929, 3030, 3029, 3E3E, BSBS or WSWS |
| REM | Plain | 2930, 2929, 3030, 3029, 3E3E, BSBS or WSWS |
| RGM | Two Grooves | 2929, 3030, 3E3E, BSBS or WSWS |

Notes for Two-tone finishes:

- 2930 Finish: grip of lever is 32D, balance of lever is 32. Rose/escutcheon and lock finish will be 32.
- 3029 Finish: grip of lever is 32, balance of lever is 32D. Rose/escutcheon and lock finish will be 32D.

To order Gramercy Series levers with SARGENT products, see the examples below. When specifying finish, use the last two digits of the ANSI/BHMA standard finish code, i.e. use "29" for polished stainless, ANSI/BHMA finish 629

### How to specify:
### 90 Series Exit Devices x ET trim with Gramercy levers

| | | | | | Gramercy Lever Information | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Options | Series | Functions | Voltage | Trim | Lever | Shank Finish* | Insert Finish | Grip Finish | Hand | Inside Finish | Door Width | Opening Height | AFF |
| select from pages 20-21 | 90 Series | select from pages 4-12 | specified for electrical functions | | Leather insert | polished or satin stainless | black or brown | polished or satin stainless | RHR, RH, LHR, or LH | select from page 25 | | For vertical rod devices | Above Finished Floor |
| 54- | 97 | 75 | 12VDC | ET | RAL | 29 | BN | 29 | RH | 32D | 36" | 84" | 36" |

Gramercy Levers are available with E2, E3, E4, O, CO, TO, LN, CR, TR roses and CE, TE, LE1, VN1 escutcheons

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## Suggested Architect's Specification

- All exit devices must be listed under "panic hardware" in accident equipment list of Underwriters' Laboratories
- All exit devices, regardless of type, shall be of matching design
- Crossbar must have minimum wall thickness of .062" or be reinforced
- Main arm pivots shall be stainless steel
- Springs shall be stainless steel
- Crossbars and arms shall be counter balanced by springs in both center case and hinge style cases
- All exit devices shall be of chassis mounted unit construction with removable covers
- Top and bottom rods of vertical rod devices shall be a minimum of 3/8" diameter
- Where labeled fire doors are used as exits, they must be equipped with labeled fire exit hardware
- All crossbars on exit devices to be locked down by inside dogging feature accomplished by depressing crossbar and turning key

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

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Founded in the early 1800s, SARGENT® is a market leader in locksets, cylinders, door closers, exit devices, electro-mechanical products and access control systems for new construction, renovation, and replacement applications. The company's customer base includes commercial construction, institutional, and industrial markets.

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