ATTACHMENT A

HARDWARE REQUIREMENTS
**McKinney Hinge Catalog**  
**Full Mortise Bearing Hinges**  
**Five Knuckle Standard Weight Series**

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**TA914**  
Stainless steel base or available in brass or bronze base material polished and plated or furnished in prime or powder coat.

**TA9714**  
Steel base polished and plated or furnished in prime or powder coat finish.

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**Available Options:**
- NRP (non-removable pin)
- TB (ball bearing)
- TCA (concealed bearing)
- RC (round corner - 1/2" radius furnished unless specified otherwise)
- HT (hospital tip)
- BT (ball tip)
- ST (steeple tip)
- SSF (safety stud feature)
- QC (Electro-Quik hinge) 2, 4, 6, 8, 10 or 12 wire available
- CC (concealed circuit) 4, 6 or 8 wire available
- CS (coated screw - hardening required)
- MM (magnetic monitoring)
- "S" (sharpening, our additional rust resistant base under prime coat on steel base)
- Slip-In (Type 1 or Type 2)
- Beveled Edge (when doors are beveled on hinge side specify TA414 or TA4714)

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**APPLICATION**  

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**Available Sizes**

<table>
<thead>
<tr>
<th>Inches</th>
<th>MM</th>
<th>Gauge</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/8 x 3/8</td>
<td>32.0 x 32.0</td>
<td>.123</td>
</tr>
<tr>
<td>4 x 4</td>
<td>101.6 x 101.6</td>
<td>.130</td>
</tr>
<tr>
<td>4 1/2 x 4</td>
<td>114.3 x 114.3</td>
<td>.134</td>
</tr>
<tr>
<td>5 x 5</td>
<td>127 x 127</td>
<td>.140</td>
</tr>
<tr>
<td>6 x 6</td>
<td>152.4 x 152.4</td>
<td>.150</td>
</tr>
</tbody>
</table>

*Not available in Stainless*

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**Packing**

All standard weight full mortise non-ferrous hinges are packed with all machine x 1/2" wood screws. Steel hinges (except USF) are packed all machine x all wood screws. For special screws consult price book on availability.

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**ANSI Cross References**

A2112 Brass, Bronze  
A5112 Stainless  
A9112 Steel

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Recommended for standard weight, medium frequency doors, or doors with closing devices.
Stainless steel base or available in brass or bronze base material polished and plated or furnished in prime or powder coat.

Steel base polished and plated or furnished in prime or powder coat finish.

**Available Options:**
- NRP (non-removable pin)
- RC (round corner, 1/4" radius furnished unless specified otherwise)
- HT (hospital up)
- BT (ball up)
- ST (steetle up)
- SSF (safety stud fixture)
- "S" (thermaling, our additional rust resistant base under prime coat on steel base)
- Recycled Edge (where doors are beveled on hinge side, specify T4314 or T4714)

**APPLICATION**

**Available Sizes**

<table>
<thead>
<tr>
<th>Inches</th>
<th>MM</th>
<th>Gauge</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 x 3</td>
<td>88.9</td>
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<tr>
<td>3 x 4</td>
<td>101.6</td>
<td>.130</td>
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<tr>
<td>3 x 4</td>
<td>114.3</td>
<td>.144</td>
</tr>
<tr>
<td>4 x 4</td>
<td>114.3</td>
<td>.144</td>
</tr>
<tr>
<td>5 x 4</td>
<td>127</td>
<td>.146</td>
</tr>
<tr>
<td>5 x 5</td>
<td>127</td>
<td>.146</td>
</tr>
<tr>
<td>6 x 6</td>
<td>152.4</td>
<td>.160</td>
</tr>
</tbody>
</table>

*Not available in Stainless

**Packaging**

All standard weight full mortise non-ferrous hinges are packed with all machine x 1/2 wood screws. Steel hinges (except US7) are packed all machine x all wood screws. For special screws consult price book on availability.

**ANSI Cross References**

- A2133 Brass, Bronze
- A5133 Stainless
- A8133 Steel

Not recommended for medium or high frequency doors, or doors with closing devices.
**Heavy Duty Steel or Aluminum Box Track & Hardware**

**9570 Series** Conforms to ANSI A156.1a/Type D0621, D0842, D0852, D0852

- For doors 1" (25.4 mm) to 1-1/2" (44 mm) thick
- Up to 125 lbs. (57 kg) per panel Bi-Fold
- Up to 75 lbs. (34 kg) per panel Multi-Fold
- Track is extruded aluminum jump-proof style with "I" beam track
- Hangers have four 1 (25.4 mm) diameter wheels
- Top and bottom pivots are heavy duty with solid brass bottom socket assembly for smooth, long lasting operation
- Note: Loose pin full mortise hinges 1741/1749 recommended – not included (3 required for 9152 & 5 required for 9164)

### Parts Bags

**9570 Quickmix 9560 Track, 9559 Parts Bag**

<table>
<thead>
<tr>
<th>Part #</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>9560-30</td>
<td>4 (814 mm) for two 18&quot; (457 mm) Doors</td>
</tr>
<tr>
<td>9560-48</td>
<td>4 (1219 mm) for four 12&quot; (305 mm) Doors</td>
</tr>
<tr>
<td>9560-60</td>
<td>5 (1524 mm) for four 15&quot; (381 mm) Doors</td>
</tr>
<tr>
<td>9560-72</td>
<td>6 (1829 mm) for four 18&quot; (457 mm) Doors</td>
</tr>
<tr>
<td>9560-96</td>
<td>8 (2133 mm) for four 24&quot; (610 mm) Doors</td>
</tr>
</tbody>
</table>

### Track

**9599**

0.020 in. (0.5 mm) thick

**9501**

0.025 in. (0.6 mm) thick

### Parts Bags

**9560**

1 each 5672 Hanger, 9518 Pivot Set, 9559 Aligner, 9559 Knob & 9615 Bumper Stop, 3 each 9230 Hinge

**9571**

1 each 5672 Hanger, 9518 Pivot Set, 9559 Aligner, 9559 Knob & 9615 Bumper Stop

### Components (sold separately)

- 9121
- 9122
- 9220
- 9572
- 9616

**Bottom Track (optional)**

- 9122
- 9559
- 9616
- 9815

**Installation note:** Clearance between door bottom and top of 9122 track must be ½" (16 mm) min. to 1" (25.4 mm) max

**800-325-9995**

[www.hagerco.com](http://www.hagerco.com)
Features & Benefits

A heavy duty cylindrical key-in-lever lock designed to exceed the requirements of ANSI 156.2 Series 4000 Grade 1. The 10 Line is the standard for institutional applications such as medical, educational and municipal facilities.

Strength, Durability and Security
- Cycle Test: Exceeds 5 times A156.2 Grade 1 requirements
- Absorb Locked Lever ‘u-tique without entry gained: Exceeds 15 times A156.2 Grade 1 requirements
- 7 YEAR LIMITED WARRANTY - no service required to maintain warranty

Convenience
- Installs in 1 minute or less
- Quickly adapts to fit multiple through-bolt positions
- User friendly packaging
- User friendly installation sheets
- Convenient installation diagram on box

Design
- Solid feel and precise lever action
- Slim rose design available
- Decorative Levers — Coastal Series designs — Gulfport and Yarmouth
- Levers are solid one piece cast construction, except "J" lever

Flexibility
- Fits a variety of door preparations with adaptable through-bolt positioning
- Accommodates retrofit applications with optional 2-3/8", 3-3/4" and 5" backset latch
- 6 ADA lever styles to complement a wide array of design applications
- Levers (B, L, J & P) are non-handed for efficient warehousing and for ease of installation
- 10 Architectural grade finishes
- 23 functions
- SARGENT engineered solutions and flexible manufacturing processes to accommodate special applications

Security
- Torx® and spanner screws optional
- Classroom security and multiple locking functions available
- Vandal resistant trim optional (FWK prefix)
- Security key systems available (V-10, Signature, Reso, BR-HE, XC)

Applications
- Designed to conform to national & state fire and handicapped requirements
- Grade 1 Lock
- Heavy duty commercial and institutional interior and exterior doors
- Offices
- Schools/Universities
- Hospitals
- Manufacturing facilities

Innovation
- SARGENT's revolutionary MicroShield™ available. This antimicrobial silver-based finish coating permanently suppresses the growth of bacteria, algae, fungus, mold and mildew. EPA and NSF approved and FDA listed
- Broad offering of electro-mechanical configurations offer higher security for the most demanding access/egress control applications
- SARGENT'S revolutionary MicroShield™ available. This antimicrobial silver-based finish coating permanently suppresses the growth of bacteria, algae, fungus, mold and mildew. EPA and NSF approved and FDA listed
- Electrify™ is a plug-in universal connector system that allows users to simply plug and link together the wired components of a doorway, without cumbersome soldering or wire nuts
- As part of their promise to provide innovative, fast and effective, and higher security solutions to their customers, ASSA ABLOY Group companies offer Electrify, a universal quick-connect system that simplifies the electrification of the door opening
- Electrify™ is a trademark of ASSA ABLOY, Inc

Manufactured with pride in New Haven, CT USA
Raising the Bar of Excellence.
10 Line Lever Lock
Lever & Rose Designs

B Lever Design
- Lever: B-Solid Cast
- 5° (127mm"
- 1-1/2" (38mm"

Y Lever Design - Coastal Design - Yarmouth
- Lever: Y-Solid Cast
- Handed
- 3-3/8" (89mm"
- 1-1/2" (38mm"

J Lever Design
- Lever: J Wrought

J Lever - not available with Freewheeling or Interchangeable Core

L Lever Design
- Lever: L-Solid Cast
- 5° (127mm"
- 1/8" (16mm"

P Lever Design
- Lever: P-Solid Cast
- 5-1/2" (140mm"
- 1/8" (16mm"

G Lever Design - Coastal Design - Gulfport
- Lever: G-Solid Cast
- Handed
- 5-1/2" (140mm"
- 1-3/8" (28mm"

G Rose Design
- Rose G - Heavy Wrought
- 3 1/2" (89mm"

L Rose Design
- Rose L - Heavy Wrought
- 1-3/4" (44mm"

NOTE: Any rose or lever on this page can be combined to suit individual taste.
NOTE: All lever height measurements represent total distance from door face.
# 10 Line Lever Lock Functions

## Single Cylinder Functions

### 04 Storeroom or Closet
- **10G04**
  - Deadlocking latch
  - Latch by lever inside or key outside
  - Outside lever rigid at all times
  - ANSI FB6

### 05 Entrance or Office
- **10G05**
  - Deadlocking latch
  - Latch by either lever unless outside lever is locked by pushbutton in inside lever
  - Push button released by key outside or lever inside
  - Turn button must be released manually
  - Key retracts latch when outside lever is locked
  - ANSI FB1

### 24 Entrance or Office
- **10G24**
  - Deadlocking latch
  - Latch by either lever unless outside lever is locked by pushbutton in inside lever
  - Push button released by key or turning inside lever
  - Closing door does not unlock outside lever or release button
  - Key in outside lever retracts latch when outside lever is locked and releases inside push button
  - ANSI FB2

### 37 Classroom
- **10G37**
  - Deadlocking latch
  - Latch by either lever unless outside lever is locked by key
  - Key in outside lever locks or unlocks outside lever and retracts latch
  - Inside lever always operative
  - ANSI FB4

### 44 Service Station
- **10G44**
  - Deadlocking latch
  - Latch by either lever unless outside lever is locked by pushbutton in inside lever
  - Key retracts latch when outside lever is locked
  - Push button released by turning inside lever, closing door, or by key in outside lever unless push button is fixed in locked position by turning coin slot in inside lever
  - Slotted inside button must be manually released
  - ANSI FB2

### 50 Hotel, Dormitory or Apartment
- **10G50**
  - Deadlocking latch
  - Latch by key outside and lever inside
  - Outside lever always rigid
  - Depressing push button when door is closed shuts out all keys except emergency key and projects visual occupancy indicator in cylinder face
  - Push button released by turning inside lever automatically reactivating all keys and retracting visual occupancy indicator
  - Lock out key fixes push button in locked position, shutting out all keys except emergency
  - Push button fixed by lockout key must be released manually
  - Lock out key provided
  - See prefix page for restrictions to 50 function
  - ANSI F93

### 54 Corridor, Dormitory
- **10G54**
  - Deadlocking latch
  - Latch by either lever unless outside lever is locked by pushbutton in inside lever or key outside
  - Rotating inside lever or closing door releases inside button only, but does not unlock the outside lever if locked by key
  - Key outside locks or unlocks outside lever and also retracts latching bolt when locked
  - ANSI F90

### 70 Electromechanical (Fail Safe)
- **10G70**
  - Power off, unlocks outside lever
  - Deadlocking latch
  - Key retracts latch
  - Inside lever always allows egress
  - Voltage requirements: 12VDC or 24VDC
  - Regulated, voltage must be specified when ordering

### 71 Electro mechanical (Fail Secure)
- **10G71**
  - Power off, locks outside lever
  - Deadlocking latch
  - Key retracts latch
  - Inside lever always allows egress
  - Voltage requirements: 12VDC or 24VDC
  - Regulated, voltage must be specified when ordering

## Freewheeling Locked Lever Option
- Available on all locking functions except 10G26, 10G38, 10G70, and 10G71
- Provides protection from vandalism and added security
- Stops in the rose prevent the lever from traveling beyond 60° in either direction
- Not available in “J” Lever Design and some prefixes

**NOTE:** Shaded lever indicates it is rigid at all times.

1-800-727-5477 • www.sargentlock.com
10 Line Lever Lock Functions

Double Cylinder Functions

16 Classroom Security, Apartment, Exit, Privacy
10G16
- Deadlocking latch
- Latch by either lever unless outside lever is locked by key in inside lever
- Key in outside lever retracts latch when outside lever is locked
- Inside lever always operable
- ANSI F88

17 Utility, Asylum or Institutional
10G17
- Deadlocking latch
- Both levers rigid at all times
- Latch by key either side
- Use only on rooms with more than one exit
- ANSI F87

26 Store or Storeroom
10G25
- Deadlocking latch
- Latch by either lever
- Key in either lever locks or unlocks both levers
- ANSI F91

Non-Cylinder Functions

13 Exit
10G13
- Deadlocking latch
- Latch by inside lever
- Outside lever rigid at all times
- ANSI F89

15 Passage
10U15
- Latch by either lever
- ANSI F75

15-3 Exit or Twin Communicating
10G15-3
- Deadlocking latch
- Blank rose outside
- Latch by lever inside
- Minimum clearance of 1-1/8" on single doors and 2-1/4" between double doors

65 Privacy/Bathroom
10U65
- Latch by either lever unless outside lever is locked by push button in inside lever
- Turning inside lever or closing door releases button
- Emergency button in outside lever unlocks, with use of a blade screwdriver in outside lever and releases inside button
- ANSI F76

30 Communicating
10G30
- Deadlocking latch
- Latch by either lever
- Key in either lever locks or unlocks its own lever only
- Use only on rooms with more than one exit
- ANSI F80

38 Classroom Security
10G38
- Deadlocking latch
- Latch by either lever unless outside lever is locked by key
- Key in either lever locks or unlocks outside lever
- Inside lever always operable
- Locked indication on inside rose standard with this function

68 Hospital Privacy
10U68
- Latch by either lever unless outside lever is locked by push button in inside lever
- Turning inside lever or closing door releases button
- Rotating thumbturn in outside lever unlocks the outside lever and releases the inside button
- Not available in the "J" lever design

93 Single & 94 Double Lever Pulls
10U93/10U94
- For wood or custom hollow metal doors
- Lever and rose both sides joined by two through-bolts
- Requires special door preparation - see template only for 93

94-2 Double Lever Pull
10U94-2
- For wood or custom hollow metal doors
- Lever and rose both sides joined by two through-bolts
- Dummy latch plate
- Uses standard door prep template

Freewheeling Locked Lever Option
- Available on all locking functions except 10G26, 10G38, 10G70, and 10G71
- Provides protection from vandalism and added security
- Stops in the rose prevent the lever from traveling beyond 60° in either direction
- Not available in "J" Lever Design and some prefixes

NOTE: Shaded lever indicates it is rigid at all times.
10 Line Lever Lock
Prefixes & Strikes

### Prefix Designation and Description

<table>
<thead>
<tr>
<th>Prefix</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Adapter plates for 1-3/8&quot; thick doors</td>
</tr>
<tr>
<td>10a</td>
<td>SARGENT Signature key system</td>
</tr>
<tr>
<td>11a</td>
<td>SARGENT XC feature (not available w/10, 22, 30, 60, 63, 64, KESO, SC, SE, VA, VS prefixes)</td>
</tr>
<tr>
<td>20</td>
<td>2-3/8&quot; Backset Latch with 1&quot; Front</td>
</tr>
<tr>
<td>21a</td>
<td>SARGENT Construction key system (lost ball) Standard on new systems est. since 5/1/96</td>
</tr>
<tr>
<td>22a</td>
<td>SARGENT Construction key system (split key) For pre-established key systems only</td>
</tr>
<tr>
<td>23</td>
<td>3-3/4&quot; backset</td>
</tr>
<tr>
<td>25</td>
<td>5&quot; backset</td>
</tr>
<tr>
<td>28</td>
<td>Strike #808, Lip length 1-1/4&quot; Lip lengths 1-5/8&quot; to 2-7/8&quot; in 1/4&quot; increments only</td>
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<tr>
<td>30a</td>
<td>10 Line lever to accept Schlage cylinder - no cylinder provided</td>
</tr>
<tr>
<td>36</td>
<td>6 lobe security head screws</td>
</tr>
<tr>
<td>37</td>
<td>Spanner head screws</td>
</tr>
<tr>
<td>41</td>
<td>3/4&quot; latch throw</td>
</tr>
<tr>
<td>60a</td>
<td>SARGENT Removable construction core</td>
</tr>
<tr>
<td>63a</td>
<td>SARGENT Removable core cylinder</td>
</tr>
<tr>
<td>64a</td>
<td>SARGENT Removable construction core cylinder</td>
</tr>
<tr>
<td>65-73a</td>
<td>Small format 5-pin uncombined core (G,L,B,P,Y levers only)</td>
</tr>
<tr>
<td>65-73-7Pa</td>
<td>Small format 7-pin uncombined core (G,L,B,P,Y levers only)</td>
</tr>
<tr>
<td>70a</td>
<td>Small format interchangeable disposable plastic construction core (G,L,B,P,Y levers only)</td>
</tr>
<tr>
<td>72a</td>
<td>Small format interchangeable 6-pin construction core (G,L,B,P,Y levers only)</td>
</tr>
<tr>
<td>73a</td>
<td>Small format interchangeable core, 6-pin (G,L,B,P,Y levers only)</td>
</tr>
<tr>
<td>73-7Pa</td>
<td>Small format interchangeable core, 7-pin (G,L,B,P,Y levers only)</td>
</tr>
<tr>
<td>74</td>
<td>Lead lined (Specify components inside, outside and/or latch tube)</td>
</tr>
<tr>
<td>75</td>
<td>Handicap warning molded on backside of inside lever</td>
</tr>
<tr>
<td>76</td>
<td>Handicap warning molded on backside of outside lever</td>
</tr>
<tr>
<td>77</td>
<td>Handicap warning molded on backside of both levers</td>
</tr>
<tr>
<td>80</td>
<td>Levers to accept KESO and Keso F1 cylinders – no cylinders provided</td>
</tr>
<tr>
<td>82a</td>
<td>SARGENT KESO security cylinder (G,L,B,P,Y levers only)</td>
</tr>
<tr>
<td>F1-82</td>
<td>SARGENT KESO Security Cylinder – patented – new key systems</td>
</tr>
<tr>
<td>BR</td>
<td>Bump Resistant Cylinder (Available with Conventional &amp; XC Cylinders Only)</td>
</tr>
<tr>
<td>FW</td>
<td>Freewheeling locking levers (G,L,B,P,Y levers only)</td>
</tr>
<tr>
<td>RX*</td>
<td>Request to exit - Monitors inside lever rotation</td>
</tr>
<tr>
<td>SCA</td>
<td>Schlage C keyway cylinder, 0 bitted</td>
</tr>
<tr>
<td>SEA</td>
<td>Schlage E keyway cylinder, 0 bitted</td>
</tr>
<tr>
<td>SF**a</td>
<td>L Lever to accept Medeco KeyMark Large Format Interchangeable and Schlage Full Size Interchangeable Core</td>
</tr>
<tr>
<td>SG</td>
<td>MicroShield™ – an antimicrobial powder coat</td>
</tr>
<tr>
<td>VA</td>
<td>SARGENT V-10 standard cylinder</td>
</tr>
<tr>
<td>VSA</td>
<td>SARGENT V-10 standard un-assembled cylinder</td>
</tr>
</tbody>
</table>

### Strikes
- Finishes: 09, 04, 09, 10, 108, 108L, 15, 20D, 32D

#### 2-3/4" Curved Lip Strike – Standard

- Furnished standard with 1-1/4" (32mm) curved lip from center of strike screw holes to end of lip
- Lip lengths 7/8" (22mm), 1" (25mm), 1-1/4" (32mm) standard, 1-1/2" (38mm), 1-3/4" (44mm) and 2" (51mm)
- To order strike separately, specify 800 strike x finish x lip length

#### 4-7/8" Curved Lip Strike: (28-Prefix)

- Conforms to ANSI standard
- Furnished standard with curved lip 1-1/4" (32mm) from center of strike screw holes to end of lip
- Lip lengths 7/8" (22mm), 1-1/8" (29mm), 1-1/4" (32mm), 1-3/8" (35mm), 1-5/8" (42mm), 1-7/8" (49mm), 2-1/8" (54mm), 2-3/8" (60mm), 2-5/8" (68mm), 2-7/8" (73mm)
- To order strike separately, specify 808 strike x finish x lip length

* Prefixes not available for 50 function
* Available with functions: 04, 05, 15, 37, 70 & 71
* Supplied less Cylinder, but with tailpiece needed
# 8800 Rim Exit Device

## Specifications

<table>
<thead>
<tr>
<th>Door Types</th>
<th>8800 Series Rim Exit Device</th>
</tr>
</thead>
<tbody>
<tr>
<td>Door Widths</td>
<td></td>
</tr>
<tr>
<td>E Rail - 24&quot; to 32&quot; (61cm to 81cm) No cutting required for 32&quot; doors</td>
<td></td>
</tr>
<tr>
<td>F Rail - 33&quot; to 36&quot; (84cm to 91cm) No cutting required for 36&quot; doors</td>
<td></td>
</tr>
<tr>
<td>G Rail - 37&quot; to 42&quot; (84cm to 107cm) No cutting required for 42&quot; doors</td>
<td></td>
</tr>
<tr>
<td>H Rail - 43&quot; to 48&quot; (110cm to 122cm) No cutting required for 48&quot; doors</td>
<td></td>
</tr>
<tr>
<td>Strike</td>
<td>649 Standard Black Nylon Coated</td>
</tr>
<tr>
<td>Optional Strikes</td>
<td>642, 644, and 613</td>
</tr>
<tr>
<td>Dogging Feature</td>
<td>Hex key dogging standard; Cylinder dogging available (16&quot;)</td>
</tr>
<tr>
<td>Electric Options</td>
<td>AL - Alarm Exit Device - Page 56</td>
</tr>
<tr>
<td></td>
<td>AT - Beacon™ Exit Device - Page 55</td>
</tr>
<tr>
<td></td>
<td>PC - SAGuide Plasticuminated Coated Push Rail - Page 56</td>
</tr>
<tr>
<td></td>
<td>TL - SAGuide Illuminated Touchpad - Page 57</td>
</tr>
<tr>
<td></td>
<td>52 - LX Latchbolt Monitor Switch - Page 57</td>
</tr>
<tr>
<td></td>
<td>54 - Outside Lever Monitoring - Page 62</td>
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<td></td>
<td>55 - Request-to-Exit Signal - Rail Monitoring - Page 57</td>
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<td></td>
<td>56 - ELR Remote Latch Retraction - Page 56</td>
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<td></td>
<td>57 - Delay Egress Exit to be used in conjunction with Electromagnet - Page 60</td>
</tr>
<tr>
<td></td>
<td>59 - Electric Dogging - Page 61</td>
</tr>
<tr>
<td></td>
<td>59 - Electric Dogging - Self Contained Delayed Egress Device - Page 61</td>
</tr>
<tr>
<td>Mounting Fasteners</td>
<td>Supplied standard with wood and machine screws Available with through bolts and mortise (sex) nuts</td>
</tr>
<tr>
<td>Latch Bolt</td>
<td>Stainless steel 3/4&quot; (19mm) throw</td>
</tr>
<tr>
<td>Device Centerline from Finished Floor</td>
<td>41&quot; (1041mm) for Standard Applications</td>
</tr>
<tr>
<td>Center Case Dimensions</td>
<td>8-3/8&quot; (213mm) x 2-5/8&quot; (67mm)</td>
</tr>
<tr>
<td>Projection</td>
<td>Pushbar Neutral = 3&quot; (76mm)</td>
</tr>
<tr>
<td></td>
<td>Pushbar Depressed = 2-1/8&quot; (54mm)</td>
</tr>
<tr>
<td>Tire Exit Hardware</td>
<td>See Chart - Page 3</td>
</tr>
</tbody>
</table>

## Alternate Strikes For 8800 Rim Devices

<table>
<thead>
<tr>
<th>Strike</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>642</td>
<td>1-3/4&quot; (44mm) x 1-11/16&quot; (44.7mm)</td>
</tr>
<tr>
<td>644</td>
<td>2-3/8&quot; (62mm) x 2-3/8&quot; (62mm)</td>
</tr>
<tr>
<td>613</td>
<td>1-3/8&quot; (35mm) x 1-3/8&quot; (35mm)</td>
</tr>
</tbody>
</table>

- Mounting Dimension 1" equals door thickness plus 1/2" (13mm). Black nylon coated on 642 only.
- Surface applied for use on pairs of doors without mullion. Door kit from Black nylon coated.
- Half mortised. Black nylon coated.

---

688 Trim Retrofit Kit

- SARGENT 8800/8888 Trim Exit x ET with a 688 Trim Retrofit Kit will easily replace Von Duprin's 98880 Series Exit with no additional door prep. Note: 688 Trim Kit only required when replacing Von Duprin kit.
### 8800 Functions & Trims

#### 700 Series ET Trim
- **Prefixes**: F1-83-99
- **Series**
- **Function Numbers**: 04, 06, 10, 15, 16, 28, 63, 66
- **Function Numbers**: 03, 09, 01, 14, 10, 02, 08, 07
- **Description & Cylinder Info**
  - Night Latch
  - Key Strike Latch
  - Key Strike Lever
  - Key Outside Lever
  - Key Outside Lever
  - Key Outside Lever
- **Type & Finish**:panic & fire
- **Door Width**: 32 D

### Lever Desires for ET Controls
- **A, B, I, T, M, W**
- **ET Designation with Suffix**
  - 8800 Series: 710, 716, 718, 713, 715, 716, 720, 743, 764, 746, 748, 773, 774, 775 & 776-0
- **Freewheeling Trim**
- **Electrified ET Trim**

### Pull & Thumb Piece Trim Section
- **Description & Cylinder Info**
  - FSL*: (869)
  - FSW*: (879)
  - MSL*: (849)
  - PSS*: (859)
  - STS*: (876)
- **Series**: 862 Pull

---

**Note:** ET supplied with 36 (1875) & 36 (1890) & inch in a size of 12 (1275) (1296-70)
8700 Surface Vertical Rod Exit Device

Features:
- Two point latching (top and bottom of the door)
- Top & bottom latch bolt projection adjustable through center case
- Standard bottom latch compatible with latchlock thresholds (by others)
- Single and double door applications
- Devices are ANSI A156.3 - 2001 Grade 1
- UL Fire and Panic listed
- Rods are 1/2" (13mm) brass, bronze or stainless steel

Note: The 8700 Exit Device cannot be used less bottom rod. If less bottom rod is desired, specify 88700 Series Exit Device.

Specifications for 8700 Series Exit:

<table>
<thead>
<tr>
<th>Door Types</th>
<th>Wood or metal 1 3/4&quot; (44 mm) minimum thickness. For doors over 1-3/4&quot; to 2-1/4&quot; thick, specify thickness and order as 31- prefix 4-1/2&quot; (114mm) minimum stile with trim and 3-1/2&quot; (44mm) minimum stile without trim.</th>
</tr>
</thead>
</table>
| Door Widths | A Rail - 24" to 32" (61cm to 81cm) No cutting required for 32" door  
T Rail - 33" to 36" (84cm to 91cm) No cutting required for 36" door  
J Rail - 33" to 42" (84cm to 107cm) No cutting required for 42" door  
C Rail - 43" to 48" (110cm to 122cm) No cutting required for 48" door |
| Strike | 649 Top Strike (Panic and Fire Rated)  
624 Bottom Strike; 655 Fire Rated Bottom Strike |
| Dogging Feature | Flex key dogging standard; Cylinder dogging available (16-|)
| Electric Options | 40 - Alarmed Exit Device - Page 56  
17 - Beacon Exit Device - Page 55  
18 - Sargent Photoluminescent Coated Push Rail - Page 56  
19 - Sargent Illuminated Touchpad - Page 57  
53 - 1x Latchbolt Monitor Switch - Page 57  
54 - Outside Lever Monitoring - Page 62  
55 - Request-to-Exit Signal - Rail Monitoring - Page 57  
56 - LEF Remote Latch Retraction - Page 58  
57 - Delay Egress Exit to be used in conjunction with Electromagnet - Page 60  
58 - Electric Dogging - Page 61  
59 - Electrogard - Self Remooved Delayed Egress Device - Page 61 |
| Mounting Fasteners | Supplied standard with wood and machine screws  
Available with through-bolts and mortar (sea) nuts |
| Top & Bottom Belt | Brass, Stainless steel |
| Device Centerline from | 41" (1041 mm) for Standard Applications; 38" (965mm) for elementary schools and to meet local accessibility standards when a 300 Series Auxiliary Control is used |
| Door Opening Height | Must be specified - 120" (3048 mm) Max Door Opening |
| Center Case Dimensions | 8-3/8" (213mm) x 2-5/8" (67mm) |
| Projection | Pushbar Neutral - 3" (76 mm)  
Pushbar Depressed - 2-1/8" (54 mm) |
| Fire Exit Hardware | See Chart - Page 3 |

Inside Lever Assembly for 300 Series Aux Control:

Attaches to top rod and engages with 300 Series Auxiliary Control. Fitted standard with 306 and 313 Auxiliary Controls. Part # 97-2338

648 & 653 Strikes (Alternate Strikes for 8700 SVR Devices):

648 Strike

For doors having transom panel applications
Black nylon coated

653 Strike

Alternate for 12-8700
Black nylon coated
**SARGENT**

### 8700 functions & Trims

#### Lever Designs for ET Controls

Aisle w/ locks or keyless. Available w/ Crystal clients & sliding collection levers.

#### ET Designation with Suffix

**Panic & Fire**

#### Escutcheon ET Trim

Voltage must be specified for the following applications: 73 and 94

### 300 Series

#### Auxiliary Control & 862 Pull

#### Pull & Thumb Piece Trim Section

#### Trim Designations

- Use letters designations when ordering with the exit device.
- When ordering trim without an exit device, specify number designation & finish.

---

**SARGENT**

### 8700 Series ET Trim

**Function Numbers**

**ANSI Function Numbers**

**Description & Cylinder Info.**

<table>
<thead>
<tr>
<th>100</th>
<th>06</th>
<th>09</th>
<th>Description &amp; Cylinder Info.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Panic &amp; Fire</td>
<td>8706 x ET</td>
<td>8700</td>
<td></td>
</tr>
</tbody>
</table>

**Electrified ET Trim**

Voltage must be specified for the following applications: 73 and 94

**Note:** ET trim supplied with 205 (205) x 240 (240) (240) finish in lieu of 201 (293) (120) (120) finish.

**Note:** ET trim must be ordered as follows:

- Panic & Fire: 8710 x ET
- Panic & Fire: 8710 x ET
- Panic & Fire: 8713 x ET
- Panic & Fire: 8715 x ET
- Panic & Fire: 8740 x ET
- Panic & Fire: 8745 x ET
- Panic & Fire: 8773 x ET
- Panic & Fire: 8774 x ET

**Note:** 862 Pull & Thumb Piece Trims are listed in the following table:

**Series**

<table>
<thead>
<tr>
<th><strong>SARGENT</strong> Function Numbers</th>
<th><strong>ANSI Function Numbers</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>100</td>
<td>06</td>
</tr>
<tr>
<td>Panic &amp; Fire (1-3/4&quot; Door)</td>
<td>8706 x ET</td>
</tr>
</tbody>
</table>

**Available Finishes**

<table>
<thead>
<tr>
<th><strong>Series</strong></th>
<th><strong>SARGENT Finishes</strong></th>
<th><strong>ANSI Finishes</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>03</td>
<td>605</td>
<td></td>
</tr>
<tr>
<td>04</td>
<td>606</td>
<td></td>
</tr>
<tr>
<td>09</td>
<td>611</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>612</td>
<td></td>
</tr>
<tr>
<td>10B</td>
<td>613</td>
<td></td>
</tr>
<tr>
<td>10SL</td>
<td>614</td>
<td></td>
</tr>
<tr>
<td>20D</td>
<td>629</td>
<td></td>
</tr>
<tr>
<td>32</td>
<td>630</td>
<td></td>
</tr>
</tbody>
</table>

---

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ET Lever Controls

\[ \text{Projection varies by lever design.} \]
\[ 2\frac{1}{2}\text{"} (63\text{mm}) \text{ projection with L Lever} \]

ET lever trim can be used with all 80 Series exit devices. Easy operating lever handle allows convenient one hand operation. FT escutcheons are forged or cast brass and the levers are brass or bronze. Stainless steel is available.

Suffix Descriptions:

700 (Std) without a suffix, square spindle
700-5: cam on the spindle & off set mounting
700-6: square spindle with different hub plate & top mounting location
700-8: cross shaped spindle

Notes: Suffixes should be used only when ordering ET Trim without an Exit Device

ETW
Cylinder Notes:
- 16 - Cylinder dogging using a 41 inside cylinder with 97 ring.
- Removable core and 70 prefix cylinders require a 97-0351 cylinder ring for 70 Series FF Controls and 94-0153 ring for 100 & 200 Series FF controls.
- Low cylinders - SARGENT supplies standard blocking rings. Specify if using tamper for cylinders.
- When ordering BEST cylinders for use in SARGENT Fail Devices, use the following BEST products numbers:
  - Mortise cylinder: 1-E74X20U8
  - Rim cylinder: 1-E74X74S94

Notes For Prefixes:
- 31 - Specify door thickness and specify used thickness and location, if used
- 31-Pret requires extended lip strike for 8000 & 8900 Series (supplied).
- SC-Pret not available in 57-Pr,
- 5C-Cylinders are only available in 41 length cylinders and 84m cylinders
- 5C, SC, 5F, SC, SC-Prefixed not available with the following: 8904, 8916, 8944, 8975, 8976, 8994, 8304, 8344, 8376 & 8376 (SC & SC-
  5C cylinders only & VC-102 cylinders only)
- 11- Prefix not available with 10, 16-U1, 12-20, 70, 5C, 84-S, SC, SC, SC, SC-
  84- prefixes.
- 1-16Pret not available with 12, 57, 59, or AL-Pret.
- 5C, SC, & 6C- are not available with 16, 55, 56, 57, 58 prefixes and on 98700, 987000, 9870000, 98700000 Exit Devices
- **91-84 not available on M/FE58600 Exit Devices

Suffix
CPC Clear Powder Coat - Recommended for exit devices used in full exterior application and highly corrosive areas with 320 & 321 finishes. How to order: 83131 x TFL x 320 x CPC

Prefixes Available
10 Signature System
10-14 Signature System with cut key
111 SARGENT 1C Key System
12 UL Fire Label Fire Devices
14 Vendor key blank cut key for $100
14-15 Cylinder lockbox for $100
14-16 Cylinder lockbox kit
18 Pushbar w/Upset Tension Pad
21 Construction Keying Conv. XL & Signature Key Systems
23 Construction Keying Conv. XL & Signature Key Systems
27 Construction Keying Conv. XL & Signature Key Systems
31 Door lever with pushbar 8000, 8900, including 12- & 16PG700
31 Core grider 3/870 & 3/870 Panel
36 6 toplines for head screws
37 Spanner head screws
43 Helif Cap
43 Helif Cap
53 Locksmith monitoring switch
54 Internal micro switch in FF Controlled
55 Signal Switch in FF (Request in Fail)
56 Remote Dogging/Retraction
36-1/4 Remote Latch Retraction with manual Hex Key Dogging
57 Remote Dogging (and various options)
58 Electric Dogging
**59 Electroguard Self-Certified Enclosed Gesa Device
**10-59 Technique & Code LED (Door Status Switch Required)
60 Disposable Construction Core
63 SARGENT Removable Core cyl. includes masterkey, plan & masterkeying
64 SARGENT Removable Construction Core Cylinder
65-73 6 PIN Uncombinable Small Format Interchangeable Core
65-73P 6 PIN Uncombinable Small Format Interchangeable Core
70 Exit device to accept Small Format Interchangeable Core - no core provided
71 Exit device to accept Small Format Interchangeable Core - no core provided
72 Exit device to accept Small Format Interchangeable Core with Construction Core flush rail - touchpad eliminated
73 Small Format & Pin Interchangeable core (Refer to CKB for available keyways)
73-FF Small Format & Pin Interchangeable core (Refer to CKB for available keyways)
74-FF Small Format & Pin Interchangeable core (Refer to CKB for available keyways)
75 Warning notice, 48 x 72, 48 x 72
76 Mounted Outside Lever
77 Warning Inside and Outside Strip on rail, Acceptive chaining on lever
81 Cylinder to accept Kool (33) & Kool Pt (1833) removable core - no core provided
81-82 Kool Security Cylinder with Fixed Profile (Patio Fencing)
82 Kool Security Cylinder
83 Kool Security Removable Core Cylinder
84 Kool Security Removable Core Cylinder
85 Kool Security Removable Core Cylinder

Cover Dimensions and Touchbar Projections

Rail Sizes
SARGENT offers four sizes of rails to accommodate 32', 36', 42' & 48' doors. These rails can be cut for smaller doors as specified in the chart below. SARGENT will cut all rails to size if door width is specified when the hardware is ordered.

Stock Door Size Widths Remarks

LP, LR & LS8600 Rail Sizes

Wide

Note: For additional information on Electrified Exit Devices, see the Electrified Exit Device catalog at www.sargentlock.com

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40 Series Mortise Cylinder

- Cylinder: Solid brass, 1-5/32" (29mm) diameter
- Cap: Brass, bronze or stainless steel
- Furnished standard with No. 97 rosette and compression spring
- See Cam Chart on Page 6 for cam required
- 5 pin standard, for 7 pin specify "7 pin" size 42 minimum
- No. 41 cam not available w/ 7 pin
- Mortise cylinder assemblies that are ordered without hardware are supplied with standard SARGENT offset cam 13-0660, except for 11-41 which uses 13-0664
- Cylinder finishes: 3, 4, 9, 10, 108, 108L, 200, 26, 26D, 32, 32D
- Plug finishes: 4, 15

<table>
<thead>
<tr>
<th>Cylinder No.</th>
<th>41</th>
<th>42</th>
<th>43</th>
<th>44</th>
<th>46</th>
<th>48</th>
<th>50</th>
<th>52</th>
<th>54</th>
<th>56</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dim X</td>
<td>1-1/8&quot; (29mm)</td>
<td>1-1/4&quot; (32mm)</td>
<td>1-3/8&quot; (35mm)</td>
<td>1-1/2&quot; (38mm)</td>
<td>1-3/4&quot;</td>
<td>2&quot;</td>
<td>2-1/4&quot;</td>
<td>2-1/2&quot;</td>
<td>2-3/4&quot;</td>
<td>3&quot;</td>
</tr>
</tbody>
</table>

50-40 Series Hotel Type Cylinder

Features same as standard 40 Series cylinders except for the following:
- For use with 8250 lock only
- 6 pin only
- Contact factory for compatibility requirements for existing 6 pin systems
- Uses only cam 13-2045
- Guest and Master keys will not project or retract deadbolt
- Emergency key only can project or retract deadbolt
- C Series keyways standard, specify if different keyway
- Length under cylinder head (Dim. X)
  - 50-42: 1-1/4" (32mm)
  - 50-43: 1-3/8" (35mm)
  - 50-44: 1-1/2" (38mm)

78-40 Series Exposed Shell Only Cylinders

- Cylinder: Solid brass, 1-5/32" (29mm) diameter
- 6 pin standard, for 7 pin specify "7 pin"
- For use with SARGENT mortise locks with Escutcheon Trim (KE 3/4, LE 3/4) only
- See Function Table on Page 6 for cam required
- 78-41 6 pin; single cylinder function only except 50
- 78-42 6 or 7 pin; single cylinder functions only
- 78-43 6 or 7 pin; all functions except 50
- Plug finishes: 4, 15

34 Series Rim Type Cylinder

- 27/32" (21mm) screw pattern for through-holed SARGENT exit devices
- Cylinder: Solid brass
- Cap: Brass, bronze or stainless steel
- Furnished standard with No. 97 rosette and compression spring. "break-off" screws and back plate
- 6 pin standard, for 7 pin specify "7 pin"
- Horizontal tail piece only
- Cylinder finishes: 3, 4, 9, 10, 108, 108L, 200, 26, 26D, 32, 32D
- Plug finishes: 4, 15

<table>
<thead>
<tr>
<th>No. of Pins</th>
<th>Door Thickness when used with outside trim</th>
<th>Dim. A (Min.)</th>
<th>Dim. B (Min.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>2-3/8&quot; to 3-1/4&quot; (60mm to 82mm)</td>
<td>1-1/16&quot; (27mm)</td>
<td>2-3/8&quot; (60mm)</td>
</tr>
<tr>
<td>7</td>
<td>2-1/2&quot; to 3-1/2&quot; (64mm to 89mm)</td>
<td>1-7/32&quot; (31mm)</td>
<td>2-3/8&quot; (60mm)</td>
</tr>
</tbody>
</table>

All cylinders standard 6 pin and supplied with 2 nickel silver keys. In cylinders ordered for 5 pin systems, the (6th) last chamber will be empty. For cylinders in competitive keyways, see Page 10. For 5 pin systems, consult factory for loading information.
All Weather Fluid

All 281 Series closers are equipped with fluid that allows the units to operate effectively in extreme temperatures without readjustment.

Finishes

Powder coated and plated finishes are available. See How to Order page 15.

ANSI/BHMA Specifications

- The 281 Series doors closers are certified to the requirements of ANSI A156.4 Grade 1
- Complies with UL 10C and UBC 7-2C (1997) Positive Pressure Fire Test

Special Rust Inhibitor Process (SRI)

Additional process available for closer body, bracket and arms provides an extra layer of protection for extreme corrosive environments, specify SRI as suffix when ordering.

Door Closer Cycle

- Opening Cycle
- Closing Cycle

How to Select the Proper Closer

1. Size and Weight of Door
   - The 281 Door Closer is non-sized so that closing force can be adjusted in the field to accommodate various door sizes and weights.

2. Interior Application
   - The standard application is the most efficient in terms of power and control.

3. Exterior Application
   - The top jamb, corner bracket or parallel arm application should be used. Exterior doors require greater closing forces because of draft conditions. Always place the closer out of the weather.

4. Degree of Opening
   - Proper arm and position on the door is most important to permit the door to open far enough to allow adequate traffic flow.

5. Function
   - Closers are available with hold-open, positive stop or fusible link hold-open arms.

6. Special Condition
   - Consult factory when special hinges, overhead holders or other specialized hardware is used.

All are certified ANSI types including options PT4 A, B, D, E, F, G, H

Arm Leverage Adjustment

Closers using "O" or "F" arms have the provision to increase closing power by 15% by adjusting foot pivot.

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The 281 Series complies with ADA for reduced open forces of 5 lbs. for interior and 8 lbs. for exterior doors.

**Features**
- ANSI/BHMA Grade 1 (A156.4)
- Conforms to standards UL 10C and UBC 7-2 for positive pressure fire test
- Ten year or 10 million cycle Warranty
- Versatile mounting applications permit standard, top jamb, parallel and track installations with the same closer body
- UL and CUL listed for use on fire doors
- Adjustable spring power allows 281 closers a size range of 1 through 5. Closers are adjusted to Size 3
- Closer bodies are non-handed
- ADA requirements are met with the 281 model in all applications (except track)
- Standard pressure relief valves for both opening and closing cycles protect the door & frame from damage caused by abuse
- Heavy duty mounting bracket for easy installation of full size iron closer
- Retrofit existing SARGENT 250 and 1250 Series Closer installations
- High impact non-corrosive plastic covers standard (Optional metal cover available)
- Cover secured by machine screws

**Valves**
- All weather fluid allows closer to operate effectively in extreme heat and cold without readjustment

**Heavy Duty Construction**
- Heat treated full rack and pinion for high strength & wear resistance
- Heavy duty one piece cast iron body provides superior strength and wear resistance
- 1/2" arm engagement over a 7/16 square spindle ensures a wear-resistant tight joint

**Full Complement of Arm Types**
- Standard and parallel arms
- Push and pull track arms
- Security track
- Security parallel arm
- Heavy duty forged steel arms are finely finished and interchangeable between SARGENT 281 and 1431, 250, 1250 and 351 Series

**Innovation**
- SARGENT's revolutionary SARGuard® available. This antimicrobial silver-based finish coating permanently suppresses the growth of bacteria, algae, fungus, mold and mildew. EPA and NSF approved and FDA listed
The standard application of the 281 door closer is the most common and the most desirable. The closer mounts on the hinge (pull) side of door (except when the W Corner Bracket is used). Note: This application is not recommended on exterior doors, since the closer is not protected from weather. The cover projection normally limits the door opening to a maximum of 160°.

281 Standard Application for:
- Interior Doors Opening In or Out
- Exterior Doors Opening In

281 Standard Application Door Opening Range
(Range based on Mounting Position)
- O: Standard Arm: 120°-180°
- H: Hold Open Arm: 90°-180°
- F: Fusible Link Hold Open Arm: 75°-135°

Adjustable Closing Force
- Interior doors to 5'0" wide
- Exterior doors to 4'0" wide
- Shipped factory preset for 3'0" door
- Factory pre-sized upon request

OLC - Low Ceiling Application Arm for Ceiling to Doors Clearance of 1 1/4" - 1 1/2"

Door Top Rail Requirement
- 2-5/8" min. rail (116mm)
- For Top Rails less than 4-5/16" with window opening, the 281-J Cover Plate is recommended

Wall Clearance Requirement
- 2-3/16" MIN SPACE (56mm)
- Cover Projection normally limits door opening to 160°
Parallel Arm Applications - The 281 closer is mounted on the push side of the door. As the door opens, the closer swings with the door and gives full headroom in the door opening. Other advantages are the closer arm does not project into the room, the frame can be quite narrow and the door can be swung open much further than in Top Jamb Applications but the closing force is not as great.

Heavy Duty Parallel Arms

For use in high traffic and abusive environments
- Friction and positive hold open arms available
- Use friction hold open arms for doors subject to moderate hold open use
- Dead stop and compression stop arms available
- Security non-hold open arms available

Non hold-open arms
- Two mounting positions for 120° and 180° maximum door openings

Stop arms
- 6 mounting positions allow stop from 85°-110°

Regular Duty Parallel Arms

Available Arms for institutional installations:
- Regular Duty Parallel Arms
- Offset Bracket Arms for use with Auxiliary Holders & Stops
- Parallel flush frame arms
- Flush frame arms for use with Auxiliary Holders & Stops
- Flush frame, friction hold open arms
- Friction hold open arms
- Use friction hold open arms for doors subject to moderate hold open use
- Fusible link hold open arms

Standard Mounting Position
- 120° Maximum door opening
- Holding range of friction and fusible hold open arms: 75° - 110°

Alternate Mounting Position
- Maximum door opening: 180°
- Holding range of friction and fusible hold open arms: 85° - 170°
Hold Open Arms

P4H - Flush frame, Friction Hold Open Arm
- Forged Steel Arm 11-1/4" (286mm) long
- Holds open from 75° to 180°
- Easily adjusted by wrench
- Non-handed
- Use on frames where stop or soft is too narrow to mount the standard hold open foot bracket
Order as 25-P4H-A finish for arm only
Includes: 63-2995 - Foot assembly
63-33481 & 63-7391 - Screw pack

P9 - Friction Hold Open Arm
- Forged Steel Arm 11-1/4" (286mm) long
- Holds open from 75° to 180°
- Easily adjusted by wrench
- Non-handed
Order as 25-P9-A finish for arm only
Includes: 63-2995 - Main arm and link assembly
63-33481 & 63-7391 - Screw pack

PF9 - Fusible Link Hold Open Arm
- Forged Steel Arm 11-1/4" (286mm) long
- Fusible link melts and releases hold
- Mechanism allowing door to close
- 160° fusible link standard, 125° link optional
- Equipped with adjustable friction holder
- Holds door open from 75° to 180°
- Easily adjusted by wrench
- Handed same as door
Order as 25-PF9-A finish for arm only
Includes: 63-3220 - Main arm and link assembly
63-3221 - Foot assembly
63-3418 - Foot bracket 125°F fusible link
63-3451 & 63-2791 - Screw pack

Offset Bracket Arms

P3 - 1" Offset Bracket for use with Auxiliary Holder/Stop
- Forged Steel Arm 11-1/4" (286mm) long
- For use with auxiliary surface overhead stops and holders
- Foot bracket is offset 1" more than P9, allowing door closer to be lowered on door face
- Non-handed
Order as 25-P3-A finish for arm only
Includes: 63-3457 - Main arm and link assembly
63-3270 - Foot assembly
63-3481 & 63-7391 - Screw pack

P3A - 1-3/4" Offset Bracket for use with Auxiliary Holder/Stop
- Forged Steel Arm 11-1/4" (286mm) long
- For use with auxiliary surface overhead stops and holders and door coordinators
- Foot bracket lowers door closer additional 3/4" below P3 bracket
- Non-handed
Order as 25-P3A finish for arm only
Includes: 63-2677 - Main arm and link assembly
63-2274 - Foot assembly
63-3481 & 63-2391 - Screw pack

P4 - Parallel Flush frame Arm
- Forged Steel Arm 11-1/4" (286mm) long
- Foot bracket is attached to frame or transom face
- For use where stop or soft is too narrow for the standard P9
- Permits 120° opening with standard mounting
- Permits 180° opening with alternate mounting
- Non-handed
Order as 25-P4 finish for arm only
Includes: 63-2647 - Main arm and link assembly
63-2275 - Foot assembly
63-3481 & 63-7391 - Screw pack

P4A - Flush Frame Arm for use with Auxiliary Holder/Stop
- Forged Steel Arm 11-1/4" (286mm) long
- For use with auxiliary surface overhead stops and holders
- Foot bracket is attached to frame or transom face
- Foot bracket lowers door closer additional 3/4" below P4 bracket
- Non-handed
Order as 25-P4-A finish for arm only
Includes: 63-2647 - Main arm and link assembly
63-2272 - Foot assembly
63-3481 & 63-7391 - Screw pack

P9 - Standard Parallel Arm
- Forged Steel Arm 11-1/4" (286mm) long
- Non-handed
Order as 25-P9-A finish for arm only
Includes: 63-2647 - Main arm and link assembly
63-33481 & 63-2791 - Screw pack

UO Package
- Universal arm package provides arms and brackets to install close-in standard 105 Jain or parallel application
- Screw packs
- 63-3481 & 63-2391

UH Package
- Universal hold open arm package provides brackets and arms to install closer to top jamb, in standard or parallel applications
- Screw packs
- 63-3481 & 63-2391
Coordinators - Gravity Coordinators

COR7G and COR9G
Gravity Coordinators

Features:
- When active door is open, coordinator prevents active door from closing until inactive door bypasses. Closing of inactive door causes strike plate on top of door to contact cam and lift arm, allowing active door to close. As inactive door continues closing, roller rides over strike plate on to door bracket, holding arm above active door.
- UL Listed for Fire Doors
- Non-handed
- Gravity action arm and door bracket are adjustable on the job for ease of installation. Nylon roller provides quiet and efficient operation, and helps protect the astragal and doors from damage.
- Nylon roller on short arm glides smoothly over door bracket and strike, ensuring silent operation
- Made of forged brass
- Meets ANSI/BHMA A156.3, Type 21.

COR7
7" Projection
- Use on pairs of doors with astragal on active door up to 4'.
- With astragal, inactive door up to 3'4".
- With astragals, both doors up to 2'10".

COR9
9" Projection
- Use on pairs of doors with astragal on active door over 4'.
- With astragal, inactive door over 3'4".
- With astragals, both doors over 2'10".

CB1 Carry Bar
Features:
- Used when it is possible for the inactive door to be opened before the active door.
- Prevents damage to the doors and other hardware.
- Nylon roller insures quiet and efficient operation.
- Non-handed.
- All steel construction.
- Meets ANSI/BHMA A156.3, Type 21.
- Standard screw holes for mounting.
8200 Series Push Plates and 8300 Series Pull Plates

- Made from the finest architectural aluminum, brass, and stainless steel.
- For Push Plate sizes other than listed, contact our Customer Service Department or your local sales representative.
- All aluminum, brass, and stainless steel Push Plates meet ANSI A156.6 requirements for .050" thickness.
- Each Push Plate is packaged individually wrapped with mounting screws.
- For special mounting methods other than standard, see pages C11 - C13

Push and Pull Plates Cut for Cylinder or Thumbturns

- All plates may be ordered with cutout for cylinder or thumbturn. Standard cutouts are positioned 2" from top of plate and centered on plates up to 4" wide or 2" from edge on plates over 4" wide. Specify hand of door when ordering cutout for plates wider than 4". On pull plates, if the pull's center-to-center dimension interferes with the cutout for the cylinder or thumbturn, please provide drawing of cutout location when ordering.
- Standard size for cylinder cutouts is 1-1/4" diameter and for thumbturn cutout is 3/8" diameter.
- When ordering, add suffix CFC for cut for cylinder, and CFT for cut for thumbturn to product number.

How to Order

Model:
- 200 Push Plate
- 300 Pull Plate, less pull

Hole Spacing: (for Pull Plate only)
- 5 for 5-1/4"
- 6 for 6"
- 8 for 8"
- 10 for 10"

Finishes:

Size:
- 3 x 12, 3-1/2 x 15, 4 x 16, 5 x 16, 8 x 16

Special Options: (specify handling for plates over 4" wide)
- CFC Cylinder cutout
- CFT Thumbturn cutout
Architectural Door Trim

8300 Series Pull Plates

- Made from the finest architectural aluminum, brass and stainless steel.
- For Pull Plate sizes other than listed, contact our Customer Service Department or your local sales representative.
- All aluminum, brass, and stainless steel Pull Plates meet ANSI A156.6 requirements for 050' thickness.
- Each Pull Plate is packaged individually wrapped with mounting screws.
- Pulls are centered on plates up to 4' wide and offset 2' from edge of plates wider than 4'.
- For special mounting methods other than standard, see pages C11-C13.

<table>
<thead>
<tr>
<th>8302 Pull Plate</th>
<th>8303 and 8303EZ Pull Plate</th>
<th>8305 Pull Plate</th>
</tr>
</thead>
<tbody>
<tr>
<td>• 8300 Plate</td>
<td>• 8300 Plate</td>
<td>• 8300 Plate</td>
</tr>
<tr>
<td>3-1/2&quot; x 15&quot;</td>
<td>3-1/2&quot; x 15&quot;</td>
<td>3-1/2&quot; x 15&quot;</td>
</tr>
<tr>
<td>4&quot; x 16&quot;</td>
<td>4&quot; x 16&quot;</td>
<td>4&quot; x 16&quot;</td>
</tr>
<tr>
<td>5&quot; x 16&quot;</td>
<td>6&quot; x 16&quot;</td>
<td>6&quot; x 16&quot;</td>
</tr>
<tr>
<td>6&quot; centers</td>
<td>8&quot; centers</td>
<td>10&quot; centers</td>
</tr>
<tr>
<td>10&quot; centers</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

How to Order

Pull Style:
- 02 for 8102
- 03 for 8103
- 05 for 8105

Pull Center to Center:
- 6 for 5' (not available on 8303)
- 8 for 8'
- 10 for 10'

Finishes:

Size:
- 3-1/2" x 15", 4" x 16", 6" x 16"

Special Options: (Handing needed for 6" x 16", LH or RH)
- CFC Cylinder cutout
- CTG Thumbturn cutout

Mounting:
- Blank Standard
- F Concealed pull wood doors w/push plate (special. Not available 8303EZ.)
- G Concealed pull plate (Only available 8302, 8303 and 8303EZ)
- I Concealed pull wood door (not available 8305 and 8303EZ)
- J Back to back pull (not available 8305 and 8303EZ)
Architectural Door Trim

Mounting
- All mounting hardware is for standard 1-3/4" door.
- Consult Customer Service if other than standard.

Standard Mounting
- (2) 1/4-20 x 2-1/4" brass, oval head machine screws; plated to match
- (2) No. 14 countersunk washers; plated to match

Type G
Concealed Pull Plate Mounting
Available only for 8302, 8303, 8311 and 8314 Pull Plates
- (2) 1/4-20 x 5/8" steel flat head machine screws; zinc plated.
Pull mounts directly onto plate. Plate is attached to door by 6 screws.

Type F-Special
Wood Doors
Concealed Pull Mounting With Push Plate
- (2) 1/4-20 x 2-1/4" steel flat head machine screws; zinc plated

Available only for 8102, 8103, 8105, 8111, 8113, 8114, 8302, 8303, 8306, 8311, 8313 and 8314. Plate on opposite side of door must be ordered separately.

Type H-Special
Reinforced Hollow Metal Door
Concealed Pull Mounting
Available only for 8102 and 8103 Pulls
- (2) Steel screw sleeves; zinc plated
- (2) 1/4-20 x 1-1/4" steel countersunk trim head machine screw; zinc plated
Series 8400 Door Protection Plates
.050" Thickness

Features:
- Door Protection Plates are fabricated from the finest architectural aluminum, bronze, stainless steel, or 1/8" thick clear acrylic plastic or black or brown high impact polyethylene.
- All aluminum, bronze, and stainless steel Door Protection Plates meet ANSI A156.6 requirements for .050" thickness.
- Optional Beveling—for beveling of top and two sides of plates suffix with "B3E", and for beveling of four sides suffix with "B4E".
- Plastic plates are beveled on all four sides as standard.
- Each plate is packaged carefully wrapped in strong kraft paper with 6" x 5/8" oval head, undercut sheet metal screws plated to match, easy installation on hollow metal, laminate, or wood doors. All plates are packaged in heavy duty corrugated cardboard; larger plates are enclosed in a wooden frame.

Use No. 8401 Kickplate Gasket Tape as a buffer between brass kickplates and metal doors to help prevent tarnishing which may result from electrolytic oxidation. One package provides enough double-sided adhesive-backed foam tape for the perimeter of an 8" x 34" plate.

- Finishes:
  - Brass: B3, B4, B5, B10, B108 (for heights over 24", check with customer service)
  - Stainless Steel: S320, S32
  - Aluminum: PA08
  - Plastic: BLK, BRN, CLR

How to Order

<table>
<thead>
<tr>
<th>Finish</th>
<th>B400</th>
<th>X</th>
</tr>
</thead>
<tbody>
<tr>
<td>Height: 4&quot; up to 48&quot; in 1/2&quot; increments (For brass kick plates over 24&quot;, check with customer service.)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Width: 22&quot; up to 48&quot; in 1/2&quot; increments</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Options: (Only for metal plates)
- B3E for Bevel Top and 2 Edges
- B4E for Bevel 4 Edges
- CS for Counter Sink Holes
- ES for Extra row of Screws
Floor Stops – Dome

FS436 Dome Stop

Features:
• For doors without threshold
• Heavy-Duty Cast Dome Stops constructed of brass, bronze or aluminum
• Gray, non-marring rubber bumper.
• Packed with wood screw and plastic anchor. Specify tampin (TPN) or lead expansion shield (LS) if required.
• Meets ANSI/BHMA A156.6, L12141 for brass or bronze and L32141 for aluminum

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Overall Height</th>
<th>Base Height</th>
<th>Base Diameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>FS436</td>
<td>1&quot;</td>
<td>3/16&quot;</td>
<td>1-3/4&quot; x 2&quot;</td>
</tr>
</tbody>
</table>

R435 Riser

Features:
• Extruded aluminum, mill finish.
• For conversion of FS436 Dome Stop to carpet installation.
• Packed with wood screws, lead shield and stud. Specify tampin (TPN) if required.

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>R435</td>
<td>1&quot; x 1-3/8&quot; Oval</td>
</tr>
</tbody>
</table>

How to Order:

Model:
436 Dome Slop Only
435 Riser Only
436 x 435 Dome Slop & Riser

Riser Size:
Blank
1/4 for 1/4"
3/8 for 3/8"
1/2 for 1/2"
5/8 for 5/8"
3/4 for 3/4"
1 for 1"

Finishes:

Meaning:
Blank Standard
TPN Tampin
LS Lead Expansion Shield
Wall Bumpers

WS406CVX & WS407CVX
WS406CCV & WS407CCV

Features:
- Constructed in sturdy yet economical wrought base of brass, aluminum or stainless steel construction.
- Feature concealed tamper-proof mounting.
- Shipped factory pre-assembled backplate to reduce installation cost.
- Easy installation by inserting screwdriver through small hole in rubber.
- The WS406CVX unit is designed with a convex rubber bumper, packed with wood screw and plastic anchor.
- The WS406CCV unit is designed with a concave rubber bumper, which avoids damage to lock by projecting buttons, packed with wood screw and plastic anchor.
- The WS407CVX unit is designed with a convex rubber bumper packed with screw and drywall anchor.
- The WS407CCV unit is designed with a concave rubber bumper which avoids damage to locks with projecting buttons and is packed with screw and drywall anchor.

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Mounting Hardware</th>
<th>Base Diameter</th>
<th>Base Thickness</th>
<th>Overall Projection</th>
</tr>
</thead>
<tbody>
<tr>
<td>WS406CVX</td>
<td>Wood screw, plastic anchor</td>
<td>2-1/2&quot;</td>
<td>3/8&quot;</td>
<td>1&quot;</td>
</tr>
<tr>
<td>WS406CCV</td>
<td>Wood screw, plastic anchor</td>
<td>2-1/2&quot;</td>
<td>3/8&quot;</td>
<td>1&quot;</td>
</tr>
<tr>
<td>WS407CVX</td>
<td>Screw, Drywall Anchor</td>
<td>2-1/2&quot;</td>
<td>3/8&quot;</td>
<td>1&quot;</td>
</tr>
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<td>WS407CCV</td>
<td>Screw, Drywall Anchor</td>
<td>2-1/2&quot;</td>
<td>3/8&quot;</td>
<td>1&quot;</td>
</tr>
</tbody>
</table>
Solid Metal Astragals

- Available lead-lined, suffix "LD"
- Available with SNB, specify

139SP - Steel Prime Coat
Furnished with #12 x 1 1/4" SMS Can replace required metal astragal on wood or fire-rated metal doors. UL Max gap between doors = 1/8". Astragal must overlap gap and macee door min. of 3/4".

139A - Aluminum Clear anodized
139DKB - Aluminum dark bronze
139BR - Brass

139SS - Stainless steel astragal type 304 mill finish #2B
Optional finishes: Polished (US32, 629) suffix "POL" Brushed (US32D, 630) suffix "Brushed"

Steel Security Astragal

1392SP - Maximum height 126"
#10-32 SNB's furnished.
Self-Adhesive Gasketing

Adhesive specifications: Acrylic pressure sensitive adhesive protected by polyethylene release liner. Provides high initial adhesion and long term holding power for permanent mounting in exterior or interior locations. Resistant to aging, weathering, UV radiation, water, detergent, alcohol and the influence of chemicals. End use temperature range is -40°F to 250°F. Shelf life of adhesive prior to installation is one year when stored at 40°F to 90°F and 60% relative humidity or less.

Available in 17', 20', 21', 25' and 300' rolls.

Kerf Application

TPE
5020B Brown
5020C Charcoal
5020W White
5021B Brown
5021C Charcoal
5021W White

Available in 36", 48", 84", 96" and 108" lengths.

Silicone
5940B Brown
5940W White

Available in 17', 20', 25', 300' rolls.

Silicone
5060B Brown
5060CL Clear

Available in 7', 8', 9', 17', and 21' rolls.
Combination NGP-Edge® Sealing System
Smoke and Draft Control Gasketing - Category ‘G’ and ‘H’ Listed

5050
Silicone Bulb Fire and Smoke Seal

Edge Sealing System - Category “G” for 20 minute rated category B wood doors perimeter application up to:
- single swing 4’0 x 8’0
- pairs 8’0 x 8’0
Use 9550 at the meeting edge of pairs

Up to 3 hours steel fire doors
Up to 1 1/2 hours wood fire doors

Meets requirements of ROHS Directive 2002/95/EC

Available in 17”, 20”, 21”, 25”, and 300” rolls
Self-Adhesive
Note: See adhesive specifications on next page

Seal for Mullion Applications

S100N Neoprene (black)
S100S Silicone (gray)

Closed cell sponge strip 1-1/8” wide x 3/32” thick with an adhesive strip for mounting directly to the face of the mullion that doors close against.

Available in 86” and 96” lengths.
Self-Adhesive

Neoprene Sponge
Self-Adhesive Gasketing

width thickness
361 21’ rolls 3/8” x 3/16”
362 21’ rolls 1/2” x 1/4”

Note: See adhesive specifications on next page
# Door Silencers

**SR64**

**Features:**
- For use on metal frames featuring pneumatic design that, once installed, forms an air pocket to absorb shock and reduce noise of door closing.
- Tamper-proof once installed on the frame.
- Proper installation also eliminates door rattle and provides constant tension for door latches or locks.
- Packed in bags of 100. Grey also available in bulk pack of 2500.
- Each bag has an installation tool included.
- Meets ANSI/BHMA 156.16, L03011.
- Finish: grey is standard. Black optional.

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Diameter</th>
<th>Thickness</th>
</tr>
</thead>
<tbody>
<tr>
<td>SR64</td>
<td>1/2&quot;</td>
<td>1/8&quot;</td>
</tr>
</tbody>
</table>

**SR65**

**Features:**
- For use on wood frames, also feature pneumatic design to cushion shock and absorb noise.
- To prevent removal, a small brad should be driven into stop strip and through stem of silencer, as shown in the detail.
- Packed in bags of 100.
- Meets ANSI/BHMA 156.16, L03021
- Finish: grey.

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Height</th>
<th>Width</th>
<th>Thickness</th>
</tr>
</thead>
<tbody>
<tr>
<td>SR64</td>
<td>3/4&quot;</td>
<td>3/8&quot;</td>
<td>1/8&quot;</td>
</tr>
</tbody>
</table>

**SR66**

**Features:**
- Self Adhesive Rubber Silencers.
- Economical installation requires no drilling of frames.
- Packed in sheets of 100.
- Finishes: brown, grey, white.

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Diameter</th>
<th>Thickness</th>
</tr>
</thead>
<tbody>
<tr>
<td>SR66</td>
<td>1/2&quot;</td>
<td>1/8&quot;</td>
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</tbody>
</table>
Model 800

Features non-vision inverted "Y" blades. Fastening system eliminates mounting holes for thru bolts saving time and labor and leaves corridor side of door free of fasteners.

Specifications

Standard Features:

Material: 18 gauge CRS frame.

Construction: Mitered and welded corners.

Door: "A1" style for 1½" doors only. Other styles for 1¾" to 2¾".

Fasteners: #8 x 1 phillips head screws.

Finish: Mineral bronze baked on powder coat.

Free Flow Area: 50% free area.

Options:

Material:
- ☐ 20 gauge #304 stainless steel - #4 satin finish
- ☐ 16 gauge CRS
- ☐ electro-galvanized steel
- ☐ Gray prime baked on powder coat no extra charge.

Finish:
- ☐ Special order colors. Please provide color chip.
- ☐ A40 Jet Coat Galvanize Steel
- ☐ G90 Hot Dipped Galvanize Sheet

Fasteners:
- ☐ Security fasteners, please specify

Screens:
- ☐ 18-14 mesh insect screen installed in roll formed aluminum frame. Aluminum, bronze or fiberglass mesh available.

Door Thickness:
- ☐ For 1½" door (available with "A" mounting style).

Size: _____ wide x _____ high _____ Quantity (door cut out size equals order size).

Mounting Options:

Model 800 A1 (Shown)
800 A, 800 C, 800 CORE
Model 1900-A

Model 1900-A door louver is listed by U.L. and WHI and is ideal for use in fire doors up to 1/2 hour rating. The Listing Mark is provided in the frame of the louver.

Specifications

Standard Features:

Material: 16 gauge CRS frame and louver blades.

Construction: Mitered and welded corners; screws fastened through prepared frame into louver core; this mounting method leaves corridor side of frame free of fasteners for aesthetic and security purposes.

Adjustable blades of 18 gauge cold rolled steel pivot on cadmium-plated steel rivets. The blades are operated by a manual trigger. A spring-loaded fuseable link mechanism is incorporated into the design. Upon melting of the link, the action bar is activated thereby closing and locking all of the blades. Louver assembly is 1 1/8" deep.

Drilling holes in the door for installation is not required.

Finish: Mineral bronze baked on powder coat.

Door: For 1 1/4" door.

Fasteners: #8 x 1/2" phillips head screws.

Free Flow Area: 45% free area.

Options:

Material: 
- #20 gauge 304 stainless steel - #4 finish (electro-galvanized)
- Sanded and polished

Finish: 
- Baked on powder coat gray prime for field painting, no extra charge.
- Special order colors. Please provide color chip.

Fasteners: Security fasteners, please specify

Screen: 18-14 mesh insect screen installed in roll formed aluminum frame. Aluminum, bronze or fiberglass mesh available.

Door Thickness:
- For 1 1/4" door

Size: _____ wide x _____ high ________ Quantity (door cut out size equals order size)

Fire Ratings (with UL and WHI classification markings):
The Model 1900-A is U.L. and WHI listed for use in fire doors up to 1 1/2 hour rating.
Louver size shall not exceed maximum of 576 square inches, 24 inches width and 24 height. The minimum width and height shall not be less than 10 inches and 8 inches, respectively.

Louvres may be provided for classified hollow-metal type and composite type fire doors.

Distributor: 
Architect: 
Contractor: 

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