2100 Series
Flatbar Exit Devices
rugged reliability

Introduction
It's no secret that the 2100 series flatbar exit device has a reputation as the right choice for meeting the rigors of demanding industry segments.

The quality and certified ANSI/BHMA A156.3 Grade 1 performance of the 2100 series are unmatched in the security industry. So it's no wonder that architects and specifiers request it for their toughest applications.

Patented mechanisms made of heavily electroplated high-grade steel and non-ferrous materials provide sturdy construction and superior protection against corrosion. High quality finishes of baked powder coatings resist rust and abrasion, with cosmetic and functional life extended to match that of the architectural finishes offered on the optional outside trim.

In an evolutionary move for the 2100 series devices, Yale also offers architectural-grade finishes. Architectural finishes add new dimensions of versatility to the 2100 series, making it a perfect fit for prominent entryways in office buildings, department stores, movie theaters and other venues that call for a blending of performance and style.

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

fire listings
2100F series exit devices are UL-cUL Listed for use on fire doors having a rating up to and including 3-hours unless otherwise noted.

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

free wheeling lever trim
2100 exit device lever trims feature the unique Free Wheeling lever mechanism. This Free Wheeling trim features a clutch mechanism which allows the lever to float down 60° when operated in the locked condition, greatly improving vandal resistance.

windstorm
Certified (refer to local codes). Specify suffix 'WS' to 2100(F) device.

iso 9001
Designed and manufactured under a certified ISO 9001 quality system.

warranty
The 2100 series exit devices carry a three-year warranty. Rose trims carry a two-year warranty and escutcheon trims carry a five-year warranty.

microshield®
2100 series exit devices and trims are available with MicroShield antimicrobial coating. MicroShield is a revolutionary hardware finish coating which inhibits the growth of bacteria, algae, yeast fungus, mold and mildew. MicroShield is non-toxic and lasts for the lifetime of the finish to which it is applied. To order, suffix option code "YMS".

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

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finishes

<table>
<thead>
<tr>
<th>ANSI/BHMA Code</th>
<th>Finish Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>613E</td>
<td>Dark Oxidized Satin Bronze - equivalent</td>
</tr>
<tr>
<td>630</td>
<td>Satin Stainless Steel MicroShield</td>
</tr>
<tr>
<td>689</td>
<td>Aluminum Painted</td>
</tr>
<tr>
<td>691</td>
<td>Light Bronze Painted</td>
</tr>
<tr>
<td>693</td>
<td>Black Painted</td>
</tr>
<tr>
<td>695</td>
<td>Dark Bronze Painted</td>
</tr>
</tbody>
</table>

Finish available with MicroShield antimicrobial coating, additional finishes by special application. Consult factory for availability.
# ANSI Functions

<table>
<thead>
<tr>
<th>ANSI Function No.</th>
<th>Function Description</th>
<th>Trim Model Number</th>
<th>SquareBolt* (Type 1 or 28) 2150(F)</th>
<th>Rim (Type 1) 2100(F)</th>
<th>Surface Vertical Rod (Type 2) 2110(F) 2170(F90)</th>
<th>Concealed Vertical Rod (Type 7 &amp; 8) 2120(F) 2160(F90)</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>Exit Only, No Trim/Exit Only, Blank Plate</td>
<td>620F 630F</td>
<td><img src="image1.png" alt="Image" /></td>
<td><img src="image2.png" alt="Image" /></td>
<td><img src="image3.png" alt="Image" /></td>
<td><img src="image4.png" alt="Image" /></td>
</tr>
<tr>
<td>02</td>
<td>Pull to Open (Dummy Trim)</td>
<td>214F 448F₂,2 449F₁,2 588F₁,2</td>
<td><img src="image5.png" alt="Image" /></td>
<td><img src="image6.png" alt="Image" /></td>
<td><img src="image7.png" alt="Image" /></td>
<td><img src="image8.png" alt="Image" /></td>
</tr>
<tr>
<td>03</td>
<td>Key Retracts Latchbolts (NL)</td>
<td>121NL 213F 217F 441F²</td>
<td><img src="image9.png" alt="Image" /></td>
<td><img src="image10.png" alt="Image" /></td>
<td><img src="image11.png" alt="Image" /></td>
<td><img src="image12.png" alt="Image" /></td>
</tr>
<tr>
<td>05</td>
<td>Entrance by Thumbpiece (Key Locks/Unlocks Thumbpiece)</td>
<td>633F</td>
<td><img src="image13.png" alt="Image" /></td>
<td><img src="image14.png" alt="Image" /></td>
<td><img src="image15.png" alt="Image" /></td>
<td><img src="image16.png" alt="Image" /></td>
</tr>
<tr>
<td>06</td>
<td>Key Unlocks Thumbpiece (Key Removable When Locked)</td>
<td>633F²</td>
<td><img src="image17.png" alt="Image" /></td>
<td><img src="image18.png" alt="Image" /></td>
<td><img src="image19.png" alt="Image" /></td>
<td><img src="image20.png" alt="Image" /></td>
</tr>
<tr>
<td>08</td>
<td>Entrance by Knob (Key Locks/Unlocks Knob)</td>
<td>622F</td>
<td><img src="image21.png" alt="Image" /></td>
<td><img src="image22.png" alt="Image" /></td>
<td><img src="image23.png" alt="Image" /></td>
<td><img src="image24.png" alt="Image" /></td>
</tr>
<tr>
<td>08</td>
<td>Entrance by Lever (Key Locks/Unlocks Lever)</td>
<td>446F² 586F² 626F²</td>
<td><img src="image25.png" alt="Image" /></td>
<td><img src="image26.png" alt="Image" /></td>
<td><img src="image27.png" alt="Image" /></td>
<td><img src="image28.png" alt="Image" /></td>
</tr>
<tr>
<td>09</td>
<td>Key Unlocks Knob (Key Removable When Locked)</td>
<td>622F²</td>
<td><img src="image29.png" alt="Image" /></td>
<td><img src="image30.png" alt="Image" /></td>
<td><img src="image31.png" alt="Image" /></td>
<td><img src="image32.png" alt="Image" /></td>
</tr>
<tr>
<td>09</td>
<td>Key Unlocks Lever (Key Removable When Locked)</td>
<td>626F²,2</td>
<td><img src="image33.png" alt="Image" /></td>
<td><img src="image34.png" alt="Image" /></td>
<td><img src="image35.png" alt="Image" /></td>
<td><img src="image36.png" alt="Image" /></td>
</tr>
<tr>
<td>11</td>
<td>Cylinder Controls Thumbturn</td>
<td>603F</td>
<td><img src="image37.png" alt="Image" /></td>
<td><img src="image38.png" alt="Image" /></td>
<td><img src="image39.png" alt="Image" /></td>
<td><img src="image40.png" alt="Image" /></td>
</tr>
<tr>
<td>12</td>
<td>Key &amp; Thumbturn (Key Removable When Locked)</td>
<td>603F</td>
<td><img src="image41.png" alt="Image" /></td>
<td><img src="image42.png" alt="Image" /></td>
<td><img src="image43.png" alt="Image" /></td>
<td><img src="image44.png" alt="Image" /></td>
</tr>
<tr>
<td>14</td>
<td>Knob Always Active (Passage)</td>
<td>624F</td>
<td><img src="image45.png" alt="Image" /></td>
<td><img src="image46.png" alt="Image" /></td>
<td><img src="image47.png" alt="Image" /></td>
<td><img src="image48.png" alt="Image" /></td>
</tr>
<tr>
<td>14</td>
<td>Lever Always Active (Passage)</td>
<td>448F² 588F² 628F²</td>
<td><img src="image49.png" alt="Image" /></td>
<td><img src="image50.png" alt="Image" /></td>
<td><img src="image51.png" alt="Image" /></td>
<td><img src="image52.png" alt="Image" /></td>
</tr>
<tr>
<td>15</td>
<td>Thumbpiece Always Active (Passage)</td>
<td>635F</td>
<td><img src="image53.png" alt="Image" /></td>
<td><img src="image54.png" alt="Image" /></td>
<td><img src="image55.png" alt="Image" /></td>
<td><img src="image56.png" alt="Image" /></td>
</tr>
</tbody>
</table>

Sectional dummy trim (02) features levers that will turn, but will not operate the devices. For rigid lever use AU629F, or AU449F. Illustrations show typical function features, rather than pictorial renderings of the trims listed. Specific trim details are shown on pages 13-15.  
¹ Trims require an easy field change to adapt them for the charted function. ² ADA compliant trim. ³ Application not recommended
## 2100 series exit devices

### Single Door UL Listing

<table>
<thead>
<tr>
<th>Single Door</th>
<th>UL Listing</th>
<th>Maximum Opening</th>
<th>Application</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SquareBolt®</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2150</td>
<td>Panic</td>
<td>4’ x *</td>
<td>Surface applied; single-point latching.</td>
</tr>
<tr>
<td>2150F</td>
<td>3 Hr.</td>
<td>4’ x 8’</td>
<td></td>
</tr>
<tr>
<td><strong>Rim</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2100</td>
<td>Panic</td>
<td>4’ x *</td>
<td>Surface applied; single-point latching.</td>
</tr>
<tr>
<td>2100F</td>
<td>3 Hr.</td>
<td>4’ x 8’</td>
<td></td>
</tr>
<tr>
<td>2100WS</td>
<td>Panic</td>
<td>3’ x 7’</td>
<td>Surface applied; single-point latching. Used as components in swinging door windstorm-rated assemblies (refer to local codes).</td>
</tr>
<tr>
<td>2100FWS</td>
<td>3 Hr.</td>
<td>3’ x 7’</td>
<td></td>
</tr>
<tr>
<td><strong>Surface Vertical Rod</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2110</td>
<td>Panic</td>
<td>4’ x 10’</td>
<td>Surface applied; two-point latching.</td>
</tr>
<tr>
<td>2170</td>
<td>Panic</td>
<td>4’ x 10’</td>
<td></td>
</tr>
<tr>
<td>2170 x LBR</td>
<td>Panic</td>
<td>4’ x 10’</td>
<td></td>
</tr>
<tr>
<td><strong>Concealed Vertical Rod</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2120</td>
<td>Panic</td>
<td>4’ x 10’</td>
<td></td>
</tr>
<tr>
<td>2160</td>
<td>Panic</td>
<td>4’ x 10’</td>
<td></td>
</tr>
<tr>
<td>2160 x LBR</td>
<td>Panic</td>
<td>4’ x 10’</td>
<td></td>
</tr>
</tbody>
</table>

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

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### Pair of Doors with Removable Mullion

<table>
<thead>
<tr>
<th>Pair of Doors with Removable Mullion</th>
<th>UL Listing</th>
<th>Maximum Opening</th>
<th>Application</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SquareBolt® x SquareBolt®</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2150 x 2150 M200</td>
<td>Panic</td>
<td>8’ x 10’</td>
<td>Two independent active doors with removable mullion.</td>
</tr>
<tr>
<td>2150F x 2150F M200F</td>
<td>3 Hr.</td>
<td>8’ x 8’</td>
<td></td>
</tr>
<tr>
<td><strong>Rim x Rim</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2100 x 2100 M200</td>
<td>Panic</td>
<td>8’ x 10’</td>
<td>Two independent active doors with removable mullion.</td>
</tr>
<tr>
<td>2100F x 2100F M200F</td>
<td>3 Hr.</td>
<td>8’ x 8’</td>
<td></td>
</tr>
</tbody>
</table>

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### Pair of Doors with Keyed Removable Mullion

<table>
<thead>
<tr>
<th>Pair of Doors with Keyed Removable Mullion</th>
<th>UL Listing</th>
<th>Maximum Opening</th>
<th>Application</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SquareBolt® x SquareBolt®</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2150 x 2150 KRM200</td>
<td>Panic</td>
<td>8’ x 10’</td>
<td>Two independent active doors with removable mullion.</td>
</tr>
<tr>
<td>2150F x 2150F KRM200F</td>
<td>3 Hr.</td>
<td>8’ x 8’</td>
<td></td>
</tr>
<tr>
<td><strong>Rim x Rim</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2100 x 2100 KRM200</td>
<td>Panic</td>
<td>8’ x 10’</td>
<td>Two independent active doors with removable mullion.</td>
</tr>
<tr>
<td>2100F x 2100F KRM200F</td>
<td>3 Hr.</td>
<td>8’ x 8’</td>
<td></td>
</tr>
</tbody>
</table>
### Pair of Doors

<table>
<thead>
<tr>
<th>UL Listing</th>
<th>Maximum Opening</th>
<th>Application</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SquareBolt® x Surface Vertical Rod</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2150 x 2110</td>
<td>Panic</td>
<td>8’ x 10’</td>
</tr>
<tr>
<td>2150 x 2170</td>
<td>Panic</td>
<td>8’ x 10’</td>
</tr>
<tr>
<td><strong>Rim x Surface Vertical Rod</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2100 x 2110</td>
<td>Panic</td>
<td>8’ x 10’</td>
</tr>
<tr>
<td>2100 x 2170</td>
<td>Panic</td>
<td>8’ x 10’</td>
</tr>
<tr>
<td><strong>Surface Vertical Rod</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2110 x 2110</td>
<td>Panic</td>
<td>8’ x 10’</td>
</tr>
<tr>
<td>2110F x 2110F</td>
<td>3 Hr.</td>
<td>8’ x 8’</td>
</tr>
<tr>
<td>2170 x 2170</td>
<td>Panic</td>
<td>8’ x 10’</td>
</tr>
<tr>
<td>2170F90 x 2170F90</td>
<td>1-1/2 Hr.</td>
<td>8’ x 10’</td>
</tr>
<tr>
<td>2170F x 2170F</td>
<td>3 Hr.</td>
<td>8’ x 8’</td>
</tr>
<tr>
<td><strong>Surface Vertical Rod (Double Egress)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2110 x 2110</td>
<td>Panic</td>
<td>8’ x 10’</td>
</tr>
<tr>
<td>2110F x 2110F</td>
<td>3 Hr.</td>
<td>8’ x 8’</td>
</tr>
<tr>
<td>2170 x 2170</td>
<td>Panic</td>
<td>8’ x 10’</td>
</tr>
<tr>
<td>2170F90 x 2170F90</td>
<td>1-1/2 Hr.</td>
<td>8’ x 10’</td>
</tr>
<tr>
<td>2170F x 2170F</td>
<td>3 Hr.</td>
<td>8’ x 8’</td>
</tr>
<tr>
<td><strong>Concealed Vertical Rod</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2120 x 2120</td>
<td>Panic</td>
<td>8’ x 10’</td>
</tr>
<tr>
<td>2120F x 2120F</td>
<td>3 Hr.</td>
<td>8’ x 8’</td>
</tr>
<tr>
<td>2160 x 2160</td>
<td>Panic</td>
<td>8’ x 10’</td>
</tr>
<tr>
<td>2160F90 x 2160F90</td>
<td>1-1/2 Hr.</td>
<td>8’ x 10’</td>
</tr>
<tr>
<td>2160F x 2160F</td>
<td>3 Hr.</td>
<td>8’ x 8’</td>
</tr>
<tr>
<td><strong>Concealed Vertical Rod (Double Egress)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2120 x 2120</td>
<td>Panic</td>
<td>8’ x 10’</td>
</tr>
<tr>
<td>2120F x 2120F</td>
<td>3 Hr.</td>
<td>8’ x 8’</td>
</tr>
<tr>
<td>2160 x 2160</td>
<td>Panic</td>
<td>8’ x 10’</td>
</tr>
<tr>
<td>2160F90 x 2160F90</td>
<td>1-1/2 Hr.</td>
<td>8’ x 10’</td>
</tr>
<tr>
<td>2160F x 2160F</td>
<td>3 Hr.</td>
<td>8’ x 8’</td>
</tr>
</tbody>
</table>
SquareBolt®

2150(F)

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

certification/compliance

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

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

features

- Patented SquareBolt security deadbolt (Pat. no. 5,605,362) designed for maximum holding power
- Designed for wide stile doors
- Non-handed for easy installation
- Steel interlock “E” bracket maintains door-to-mullion relationship in fire-labeled devices

applications

- Single swing doors
- Pairs of doors (mullion required)
- Metal, wood or composite door materials

specifications

Door Opening Width: -36 for 30’’ - 36’’ (76cm - 91cm) doors
-42 for 36’’ - 42’’ (91cm - 107cm) doors
-48 for 42’’ - 48’’ (107cm - 122cm) doors

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

Minimum Stile Width: 4-1/2” (114mm)

Projection: 2-1/2” (64mm) active, 1-3/4” (44mm) depressed

Deadbolt: Patented 1’’ (25mm) slide projection bolt with full 3/4” (19mm) projection

Strike: 757F, 793 optional (double door application, panic only)

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

Trims: 121NL cylinder only, 210F series utility trim, 440F series rose trim, 580F series rose trim with escutcheon plate, 620F series escutcheon trim, 630F series pull/thumbpiece trim. See pages 13-15.

Dogging: Hex key dogging supplied standard on panic devices

Finishes: 613E, 630, 689, 691, 693, 695

Options: Shim kit #223, sex nuts and bolts, MicroShield®

Warranty: 3-year limited
2100(F)

The 2100(F) is a rim exit device to be used with single doors or pairs of doors constructed of metal, wood or composite materials. The 2100(F) can be paired with a wide variety of trims to meet many applications.

**Certification/Compliance**

- UL/cUL Listed: FVSR/FVSR7 - Panic hardware
- GXHX/GXHX7 - Fire exit hardware (F)
- HEM - Latching hardware
- ZHLA - Windstorm rated assemblies

**Features**

- Designed for wide stile doors
- Non-handed for easy installation
- Steel interlock "E" bracket maintains door-to-mullion relationship in fire-labeled devices
- Deadlocking pullman latchbolt positively engages roller strike
- Available certified hurricane resistant (refer to local codes). Specify 2100(F)WS

**Applications**

- Single swing doors
- Pairs of doors (mullion required)
- Metal, wood or composite door materials

**Specifications**

- Door Opening Width:
  - -36 for 30” - 36” (76cm - 91cm) doors
  - -42 for 36” - 42” (91cm - 107cm) doors
  - -48 for 42” - 48” (107cm - 122cm) doors
- Door Thickness:
  - 1-3/4” (44mm) standard. Optional door thicknesses available to 4-1/2”; specify door thickness when ordering.
- Minimum Stile Width:
  - 4-1/2” (114mm)
- Projection: 2-1/2" (64mm) active, 1-3/4" (44mm) depressed
- Latchbolt: 3/4" (19mm) deadlocking stainless steel pullman-type
- Strike: 757F, 793 optional (double door application, panic only)
- Fasteners: Machine screws and wood door fasteners standard for panic hardware. Sex nuts and bolts supplied standard for fire exit hardware.
- Dogging: Hex key dogging supplied standard on panic devices
- Finishes: 613E, 630, 689, 691, 693, 695
- Options: Shim kit #223, sex nuts and bolts, MicroShield®
- Warranty: 3-year limited
surface vertical rod

**2110(F)**
The 2110(F) is a surface vertical rod exit device to be used on metal, wood or composite pairs of doors up to 8’ (fire) and 10’ (panic) where two-point latching is desired.

**certification/compliance**
UL/cUL Listed: FVSR/FVSR7 - Panic hardware  
GXHX/GXHX7 - Fire exit hardware (F)  
(8’ x 8’ pairs, 3 hr.)
ANSI/BHMA Certified: A156.3 Type 2, Grade 1

**features**
- Designed for wide stile doors
- Handed, specify hand (field reversible)
- Positive action linkage on a deadlocking top pullman bolt
- Simultaneous direct pull bottom deadbolt
- When unlatched, device keeps both bolts retracted until door is shut

**applications**
- Pairs of doors
- Double egress
- Metal, wood or composite door materials

**specifications**
- Door Opening Width: -36 for 30’ - 36’ (76cm - 91cm) doors  
-42 for 36’ - 42’ (91cm - 107cm) doors  
-48 for 42’ - 48’ (107cm - 122cm) doors
-Door Opening Height: Standard door height 7’ (213cm), with the device centerline at 39-15/16’ (101cm) from floor. Optional heights up to 8’ (fire) and 10’ (panic) available by using rod extensions. For fire rated openings over 8’, see 2170F SVR.
-Door Thickness: 1-3/4” (44mm) standard. Optional door thicknesses available to 4-1/2”; specify door thickness when ordering.
-Minimum Stile Width: 4-1/2” (114mm)
-Projection: 2-1/2” (64mm) active, 1-3/4” (44mm) depressed
-Latchbolt: Top: 3/4” (19mm) throw, pullman-type with automatic deadlatching.  
Bottom: 5/8” (16mm) throw deadbolt, held retracted during door swing.
-Vertical Rods: 1/2” (13mm) O.D. tubular brass, bronze or stainless steel with rod guides
-Fasteners: Machine screws and wood door fasteners standard for panic hardware. Sex nuts and bolts supplied standard for fire exit hardware.
-Dogging: Hex key dogging supplied standard on panic devices
-Finishes: 613E, 630, 689, 691, 693, 695
-Options: Shim kit #224, sex nuts and bolts, bottom pullman latch (panic only), MicroShield®
-Warranty: 3-year limited
surface vertical rod

2170(F)

The 2170(F) is a surface vertical rod exit device to be used on wide stile and flush doors up to 10’ where one or two-point latching is desired. A Less Bottom Rod (LBR) option is available.

certification/compliance

UL/cUL Listed: FVSR/FVSR7 - Panic hardware
GXHX/GXHX7 – Fire exit hardware (F) (8’ x 10’ pairs, 1-1/2 hr.) (8’ x 8’ pairs, 3 hr.)

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

features

• Designed for wide stile and flush doors
• Mechanisms made of heavily electroplated high-grade steel and non-ferrous materials provide sturdy construction and superior protection against corrosion
• Interlocking top strike and latch mounting plate for added stability
• Handed, specify hand (field reversible)
• Available less bottom rod (LBR option)

applications

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

specifications

Door Opening Width: -36 for 30” - 36” (76cm - 91cm) doors
-42 for 36” - 42” (91cm - 107cm) doors
-48 for 42” - 48” (107cm - 122cm) doors

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

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

Minimum Stile Width: 4-1/2” (114mm)

Projection: 2-1/2” (64mm) active, 1-3/4” (44mm) depressed

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

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


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


Dogging: Hex key dogging supplied standard on panic devices

Finishes: 613E, 630, 689, 691, 693, 695

Options: Shim kit #223, sex nuts and bolts, bottom pullman latch (panic only), less bottom rod (LBR), -8, -9, -10 opening height, rod extensions, MicroShield®

Warranty: 3-year limited
concealed vertical rod

2120(F)

The 2120(F) is a concealed vertical rod exit device to be used on metal doors only up to 8' (fire) and 10' (panic) where two-point latching is desired.

certification/compliance

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

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

features

• Designed for wide stile doors
• Handed, specify hand (field reversible)
• Positive action linkage on a deadlocking top pullman bolt
• Simultaneous direct pull bottom deadbolt
• When unlatched, device keeps both bolts retracted until door is shut

applications

• Pairs of doors
• Double egress
• Metal doors only

specifications

Door Opening Width: -36 for 30” - 36” (76cm - 91cm) doors
-42 for 36” - 42” (91cm - 107cm) doors
-48 for 42” - 48” (107cm - 122cm) doors

Door Opening Height: Standard door height adjustable to 8’ (244cm), with the device centerline at 39-15/16” (101cm) from floor. Optional heights up to 10’ (panic) available by using rod extensions. For fire rated openings over 8’, see 2160F CVR.

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

Minimum Stile Width: 4-1/2” (114mm)

Projection: 2-1/2” (64mm) active, 1-3/4” (44mm) depressed

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

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

Strike: Top: Roller type 791.
Bottom: Flush mounted 790. 794 floor strike optional (threshold openings).

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


Dogging: Hex key dogging supplied standard on panic devices

Finishes: 613E, 630, 689, 691, 693, 695

Options: Shim kit #223, sex nuts and bolts, bottom pullman latch (panic only), MicroShield®

Warranty: 3-year limited
2160(F)

The 2160(F) is a concealed vertical rod exit device to be used on wood and metal doors up to 10' where one or two-point latching is desired. A Less Bottom Rod (LBR) option is available.

certification/compliance

UL/cUL Listed:  FVSF/FVSF7 - Panic hardware
GXHX/GXHX7 – Fire exit hardware (F) (8' x 10' pairs, 1-1/2 hr.) (8' x 8' pairs, 3 hr.)

ANSI/BHMA
Certified:  Certified A156.3 Type 7 and 8, Grade 1

features

• Designed for wide stile and flush doors
• Mechanisms made of heavily electroplated high-grade steel and non-ferrous materials provide sturdy construction and superior protection against corrosion
• Handed, specify hand (field reversible)
• Available less bottom rod (LBR option)

applications

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

specifications

Door Opening Width:  
-36 for 30’ - 36’ (76cm - 91cm) doors
-42 for 36’ - 42’ (91cm - 107cm) doors
-48 for 42’ - 48’ (107cm - 122cm) doors

Door Opening Height:  
Standard door height adjustable to 8’ (244cm), with the device centerline at 39-15/16” (101cm) from floor. Optional heights specify suffix -9, -10.

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

Minimum Stile Width:  
4-1/2” (114mm)

Projection:  
2-1/2” (64mm) active, 1-3/4” (44mm) depressed

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

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

Strike:  
Top: Mortised 761.
Bottom: Flush-mounted 790. 794 floor strike optional (threshold openings).

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

Trims:  

Dogging:  
Hex key dogging supplied standard on panic devices

Finishes:  
613E, 630, 689, 691, 693, 695

Options:  
Shim kit #223, sex nuts and bolts, bottom pullman latch (panic only), less bottom rod (LBR), -9, -10 opening height, rod extensions, MicroShield®

Warranty:  
3-year limited
trim designs for escutcheons

### Standard

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<th>Augusta AU</th>
<th>Carmel CR</th>
<th>Jefferson JN</th>
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Note: Projection dimensions are provided using the 620F series escutcheon plates.

### Reflections

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Note: Projection dimensions are provided using the 620F series escutcheon plates.
exit device trims

**620F series wide escutcheon trim**
- Certified ANSI/BHMA A156.3, Grade 1.
- Trim through-bolts to exit device for strength.
- Beveled sides improve attack resistance.
- Solid forged escutcheon and Free-Wheeling trim resists vandalism and abuse.
- Flush cylinder in 6-pin applications for additional security.
- 1-3/4” (44mm) door standard. For doors through 2-1/4” (57mm) or shim-mounted devices, specify on order.
- Dimensions: 3” x 10-1/4” x 13/16” (76mm x 260mm x 19mm).

**Application Cylinder**
- Classroom/ Storeroom Cylinder Controls
- Thumbturn Exit Only
- Blank Plate
- Nightlatch Access by Key
- Classroom/ Storeroom Cylinder Controls
- Nightlatch Cylinder by Knob
- Passage Active Knob
- Dummy Trim Rigid Knob
- Classroom Storeroom Cylinder Controls
- Lever Nightlatch Cylinder by Lever
- Passage Dummy Trim Free-Wheeling Dummy Rigid Lever

<table>
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<tr>
<th>Application</th>
<th>Cylinder</th>
<th>Classroom/ Storeroom Cylinder Controls</th>
<th>Thumbturn Exit Only</th>
<th>Blank Plate</th>
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| ANSI 11/12 | 01 03 | 08/09 | 03 14 | 02 08 | 09 | 03 14 | 02 02 |

1 09, 12 and Free Wheeling 02 achieved with single trim modification at installation.
2 Not recommended for use with vertical rod exit devices.

Optional door thickness available up to 4-1/2”, specify on order.

**630F series wide pull/thumbpiece trim**
- Certified ANSI/BHMA A156.3, Grade 1.
- Trim through-bolts to exit device for strength.
- Beveled sides improve attack resistance.
- Solid forged escutcheon and Free-Wheeling trim resists vandalism and abuse.
- Flush cylinder in 6-pin applications for additional security.
- 1-3/4” (44mm) door standard. For doors through 2-1/4” (57mm) or shim-mounted devices, specify on order.
- Plate Dimensions: 2-3/4” x 15-1/2” x 5/8” (70mm x 394mm x 16mm).
- Pull Dimensions: 6-7/16” (164mm) on centers x 2-1/8” (54mm) projection.
- Cylinders not included. See page 16 for cylinder options.
- Finishes: 613E, 626, 630, 693
- Available with Reflections® lever designs. See page 12.
- Trim ordering example: AU626F x 626 x RHR.
- 5-year limited warranty.

**Applications Cylinder**
- Exit Only Blank Plate
- Nightlatch Cylinder by Pull
- Classroom Storeroom Cylinder Controls T-Piece
- Storeroom Cylinder Controls T-Piece
- Dummy Trim Pull Plate
- Passage Active T-Piece

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<thead>
<tr>
<th>Applications</th>
<th>Cylinder</th>
<th>Exit Only Blank Plate</th>
<th>Nightlatch Cylinder by Pull</th>
<th>Classroom Storeroom Cylinder Controls T-Piece</th>
<th>Storeroom Cylinder Controls T-Piece</th>
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</table>

| ANSI        | 01 03 | 03 05 | 06 | 02 15 |

1 06 achieved with single trim modification at installation.
2 Not recommended for use with vertical rod exit devices.

For 626 & 630 finishes the escutcheon is plated to simulate stainless steel.
Optional door thickness available up to 4-1/2”, specify on order.
exit device trims

440F series rose trim
- Certified ANSI/BHMA A156.3, Grade 1
- 440F rose trim for stock doors.
- Free-Wheeling trim resists vandalism and abuse.
- 1-3/4" (44mm) door standard. For doors through 2-1/4" (57mm) or shim-mounted devices, specify on order.
- AU, PB and MO trim designs. See below.
- Cylinders included, accepts 6-pin cylindrical type cylinders. If 7-pin cylinders are required, reference 540F trim from 7000 series catalog. See page 17 for cylinder options.
- Finishes: 613E, 626, 689, 691, 693, 695
- “B” trim prefix - Lever trim accepting all small format interchangeable cores. 6- or 7-pin. (Example: B-AU446F)
- “M” trim prefix - Lever trim accepting Medeco® (32 series) and ASSA® large format interchangeable cores. Available in AU lever only. 6-pin only. (Example: M-AU446F)
- “S” trim prefix - Lever trim accepting Schlage® standard cylinders. 6-pin only. (Example: S-AU446F)
- “SI” trim prefix - Lever trim accepting Schlage® large format interchangeable cores. Available in AU and PB levers only. 6-pin only. (Example: SI-AU446F)
- Please specify when ordering 1210 LFIC prep.
- 2-year limited warranty.

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<thead>
<tr>
<th>Applications</th>
<th>Nightlatch Access by Key</th>
<th>Classroom Cylinder Controls Lever</th>
<th>Dummy Trim Free Wheeling Lever</th>
<th>Passage Lever</th>
<th>Dummy Trim Rigid Lever</th>
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<td>02</td>
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580F series rose trim with escutcheon plate
- 580F rose trim with escutcheon plate for stock doors.
- Free-Wheeling trim resists vandalism and abuse.
- 1-3/4" (44mm) door standard. For doors thru 2-1/4" (57mm) or shim-mounted devices, specify on order.
- AU, PB and MO trim designs. See below.
- Plate Dimensions: 4" (102mm) x 8" (204mm) x 1/8" (3mm)
- Cylinders included, accepts cylindrical type cylinders. See page 17.
- Finishes - lever and rose only: 613E, 626, 689.
- Finishes - escutcheon only: 689.
- “B” trim prefix - Lever trim accepting all small format interchangeable cores. 6- or 7-pin. (Example: B-AU446F)
- “M” trim prefix - Lever trim accepting Medeco® (32 series) and ASSA® large format interchangeable cores. Available in AU lever only. 6-pin only. (Example: M-AU446F)
- “S” trim prefix - Lever trim accepting Schlage® standard cylinders. 6-pin only. (Example: S-AU446F)
- “SI” trim prefix - Lever trim accepting Schlage® large format interchangeable cores. 6-pin only. (Example: SI-AU446F)
- 3-year limited warranty.

<table>
<thead>
<tr>
<th>Applications</th>
<th>Nightlatch Access by Key</th>
<th>Classroom Cylinder Controls Lever</th>
<th>Dummy Trim Free Wheeling Lever</th>
<th>Passage Lever</th>
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</table>

2100 series | exit devices |
exit device trims

210F series trim
- 1-3/4" (44mm) door standard. For doors through 2-1/4" (54mm) or shim-mounted devices, specify on order.
- Cylinders not included. For rim cylinder options, see page 16.
- Plate Dimensions: 3-1/2" x 3-3/4" x 3/32" (89mm x 95mm x 3mm)
- Finger Pull Dimensions: 3-1/2" x 6-3/4" x 1/8" (89mm x 171mm x 3mm)
- Finishes: 689, 691, 695

<table>
<thead>
<tr>
<th>Application</th>
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<th>Dummy Trim Pull Plate</th>
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<td>2100(F), 2150(F)</td>
<td>Rim</td>
<td>213F</td>
<td>214F</td>
<td>217F</td>
</tr>
<tr>
<td>ANSI</td>
<td></td>
<td>03</td>
<td>02</td>
<td>03</td>
</tr>
</tbody>
</table>

Not recommended for surface or concealed vertical rod devices.

121NL cylinder only

- Application: 2100(F) and 2150(F) rim and SquareBolt® exit devices. Not recommended for surface or concealed vertical rod devices.
- Must specify rim cylinder when ordering. See page 16 for cylinder options.
- Cylinder collar 1765.250 furnished standard for 1-3/4" thick doors.
- For 1109, 5109, K300, K640, A640 and 2109 cylinders:
  - Screw part number 34-2311-8738-048
  - Backplate part number 34-0010-1015-059
- For 1193, 5193 and K840 cylinders:
  - Screw part number 10-1193-1018-048
  - Backplate part number 34-0010-1015-059

<table>
<thead>
<tr>
<th>Function Description</th>
<th>Nightlatch Access by Key</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model No.</td>
<td>121NL</td>
</tr>
<tr>
<td>ANSI</td>
<td>03</td>
</tr>
</tbody>
</table>
The following chart details rim cylinders for use with 620F, 630F, 210F, 121NL trims and outside of SDA16 door alarm:

**Collar Requirements**

<table>
<thead>
<tr>
<th>Model #</th>
<th>Description</th>
<th>Pins</th>
<th>Length</th>
<th>620F</th>
<th>630F</th>
<th>210F</th>
<th>121NL</th>
<th>SDA16 Outside</th>
</tr>
</thead>
<tbody>
<tr>
<td>1109</td>
<td>Standard Fixed Core</td>
<td>6</td>
<td>1-1/4&quot;</td>
<td>No Collar</td>
<td>No Collar</td>
<td>1765.250</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1109</td>
<td>Standard Fixed Core</td>
<td>7</td>
<td>1-7/16&quot;</td>
<td>KP4</td>
<td>KP4</td>
<td>1765.500</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1709</td>
<td>CMK</td>
<td>6</td>
<td>1-15/16&quot;</td>
<td>1765.250</td>
<td>1765.250</td>
<td>1765.406</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1709</td>
<td>CMK</td>
<td>7</td>
<td>1-5/8&quot;</td>
<td>1765.250</td>
<td>1765.406</td>
<td>1765.406</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1193</td>
<td>LFIC Complete</td>
<td>6</td>
<td>1-7/16&quot;</td>
<td>1765.250</td>
<td>1765.250</td>
<td>1765.406</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1193</td>
<td>LFIC Complete</td>
<td>7</td>
<td>1-5/8&quot;</td>
<td>1765.250</td>
<td>1765.250</td>
<td>1765.406</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5109</td>
<td>Security Fixed Core</td>
<td>6</td>
<td>1-9/16&quot;</td>
<td>1765.250</td>
<td>1765.250</td>
<td>1765.406</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5109</td>
<td>Security Fixed Core</td>
<td>7</td>
<td>1-7/16&quot;</td>
<td>1765.250</td>
<td>1765.250</td>
<td>1765.406</td>
<td></td>
<td></td>
</tr>
<tr>
<td>U5109</td>
<td>High Security Fixed Core</td>
<td>6</td>
<td>1&quot;</td>
<td>No Collar</td>
<td>No Collar</td>
<td>1765.250</td>
<td></td>
<td></td>
</tr>
<tr>
<td>U5109</td>
<td>High Security Fixed Core</td>
<td>7</td>
<td>1&quot;</td>
<td>No Collar</td>
<td>No Collar</td>
<td>1765.250</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5193</td>
<td>Security LFIC Complete</td>
<td>6</td>
<td>1-7/16&quot;</td>
<td>1765.250</td>
<td>1765.250</td>
<td>1765.406</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5193</td>
<td>Security LFIC Complete</td>
<td>7</td>
<td>1-5/8&quot;</td>
<td>1765.250</td>
<td>1765.250</td>
<td>1765.406</td>
<td></td>
<td></td>
</tr>
<tr>
<td>K300</td>
<td>Yale® KeyMark® Standard Fixed Core</td>
<td>6</td>
<td>1-1/8&quot;</td>
<td>KP4</td>
<td>1765.250</td>
<td>1765.406</td>
<td></td>
<td></td>
</tr>
<tr>
<td>K300</td>
<td>Yale KeyMark® Standard Fixed Core</td>
<td>7</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>K840/K880</td>
<td>Yale KeyMark® LFIC Complete / Housing Only</td>
<td>6</td>
<td>1-7/16&quot;</td>
<td>1765.406</td>
<td>1765.500</td>
<td>1765.719</td>
<td></td>
<td></td>
</tr>
<tr>
<td>K840/K880</td>
<td>Yale KeyMark® LFIC Complete / Housing Only</td>
<td>7</td>
<td>1-5/8&quot;</td>
<td>1765.563</td>
<td>1765.719</td>
<td>1765.937</td>
<td></td>
<td></td>
</tr>
<tr>
<td>K640/K680</td>
<td>Yale KeyMark® SFIC Complete / Housing Only</td>
<td>6</td>
<td>1-1/4&quot;</td>
<td>KP4</td>
<td>1765.250</td>
<td>1765.406</td>
<td></td>
<td></td>
</tr>
<tr>
<td>K640/K680</td>
<td>Yale KeyMark® SFIC Complete / Housing Only</td>
<td>6 or 7</td>
<td>1-3/8&quot;</td>
<td>1765.187</td>
<td>1765.406</td>
<td>1765.563</td>
<td></td>
<td></td>
</tr>
<tr>
<td>A640/K680</td>
<td>Best® Keyway SFIC Complete / Housing Only</td>
<td>6</td>
<td>1-1/4&quot;</td>
<td>KP4</td>
<td>1765.250</td>
<td>1765.406</td>
<td></td>
<td></td>
</tr>
<tr>
<td>A640/K680</td>
<td>Best® Keyway SFIC Complete / Housing Only</td>
<td>6 or 7</td>
<td>1-3/8&quot;</td>
<td>1765.187</td>
<td>1765.406</td>
<td>1765.563</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2109</td>
<td>Schlage® “C” Keyway Fixed Core Available 0-bitted or keyed random.</td>
<td>6</td>
<td>1-1/8&quot;</td>
<td>No Collar</td>
<td>No Collar</td>
<td>1765.250</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Based on 1-3/4" door thickness. Collar length required must be specified for cylinders and/or housings ordered separately.

**LFIC** = Large Format Interchangeable Core

**SFIC** = Small Format Interchangeable Core
cylinders

component

The following chart details component cylinders for use with 440F and 580F series trim.

<table>
<thead>
<tr>
<th>Model #</th>
<th>Description</th>
<th>Pins</th>
</tr>
</thead>
<tbody>
<tr>
<td>1802</td>
<td>Standard Lever Fixed Core</td>
<td>6</td>
</tr>
<tr>
<td>1802A*</td>
<td>Standard Lever Fixed Core</td>
<td>7</td>
</tr>
<tr>
<td>5802</td>
<td>Security Lever Fixed Core</td>
<td>6</td>
</tr>
<tr>
<td>5802A*</td>
<td>Security Lever Fixed Core</td>
<td>7</td>
</tr>
<tr>
<td>1210</td>
<td>LFIC Only</td>
<td>6</td>
</tr>
<tr>
<td>1220*</td>
<td>LFIC Only</td>
<td>7</td>
</tr>
<tr>
<td>5210</td>
<td>Security LFIC Only</td>
<td>6</td>
</tr>
<tr>
<td>5220*</td>
<td>Security LFIC Only</td>
<td>7</td>
</tr>
<tr>
<td>K402*</td>
<td>Yale® KeyMark® Lever Fixed Core</td>
<td>6 or 7</td>
</tr>
<tr>
<td>K800*</td>
<td>Yale KeyMark LFIC Only</td>
<td>6 or 7</td>
</tr>
<tr>
<td>K600</td>
<td>Yale KeyMark SFIC Only</td>
<td>6 or 7</td>
</tr>
<tr>
<td>A600</td>
<td>Best® Keyway SFIC Only</td>
<td>6 or 7</td>
</tr>
<tr>
<td>2802</td>
<td>Schlage® “C” Keyway Fixed Core. Available 0-bitted or keyed random.</td>
<td>6</td>
</tr>
</tbody>
</table>

*7-pin not available for 440F series trim. If 7-pin required, refer to 540F series located in 7000 series exit device catalog.
†440 series trim requires the 108S kit. These cylinders are not ANSI/BHMA certified.

mortise

Please see page 18 for the detailed charts of mortise cylinders.

cylinder collars

If required, cylinder collar size must be specified.

1765 Recessed Cylinder Collar

“A” Dimension: Thicknesses from 1/16” (2mm) to 1-15/32” (37mm) as required.
Material: Brass, Bronze

KP3 Wave Washer

(Furnished standard with 1765 collar for Yale® KeyMark® cylinders and 630F series trim).

599 Recessed Cylinder Collar

with Radius “A” Dimension: Thicknesses from 1/16” (2mm) to 1-15/32” (37mm) as required.
Material: Brass, Bronze

KP4 Flush Mount Cylinder Collar

Material: Brass, Bronze
The following chart details mortise cylinders for use with cylinder dogging, 2116 alarms, inside of SDA16 and KRM200 mullions:

<table>
<thead>
<tr>
<th>Model #</th>
<th>Description</th>
<th>Pins</th>
<th>Length</th>
<th>Cam</th>
<th>Collar</th>
<th>Cam</th>
<th>Collar</th>
<th>Cam</th>
<th>Collar</th>
<th>Cam</th>
<th>Collar</th>
<th>Cam</th>
<th>Collar</th>
</tr>
</thead>
<tbody>
<tr>
<td>2153</td>
<td>Standard Fixed Core</td>
<td>6</td>
<td>1-1/8&quot;</td>
<td>NA</td>
<td>No Collar</td>
<td>No Collar</td>
<td>No Collar</td>
<td>1765.312</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2153</td>
<td>Standard Fixed Core</td>
<td>7</td>
<td>1-1/4&quot;</td>
<td>599.925</td>
<td>1765.250</td>
<td>KP4</td>
<td>1765.750</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2196</td>
<td>LFIC Complete</td>
<td>6</td>
<td>1-1/2&quot;</td>
<td>599.1.04</td>
<td>1765.500</td>
<td>1765.250</td>
<td>1765.844</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2197</td>
<td>LFIC Complete</td>
<td>7</td>
<td>1-11/16&quot;</td>
<td>599.925</td>
<td>1765.250</td>
<td>KP4</td>
<td>1765.750</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5153</td>
<td>Security Fixed Core</td>
<td>6</td>
<td>1-1/8&quot;</td>
<td>NA</td>
<td>No Collar</td>
<td>No Collar</td>
<td>No Collar</td>
<td>1765.312</td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>5153</td>
<td>Security Fixed Core</td>
<td>7</td>
<td>1-1/4&quot;</td>
<td>599.1.04</td>
<td>1765.500</td>
<td>1765.250</td>
<td>1765.844</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>U5153</td>
<td>High Security Fixed Core</td>
<td>6</td>
<td>1-1/8&quot;</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>1765.312</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>U5153</td>
<td>High Security Fixed Core</td>
<td>7</td>
<td>1-1/4&quot;</td>
<td>599.1.04</td>
<td>1765.500</td>
<td>1765.250</td>
<td>1765.844</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5196</td>
<td>Security LFIC Complete</td>
<td>6</td>
<td>1-1/2&quot;</td>
<td>599.925</td>
<td>1765.250</td>
<td>KP4</td>
<td>1765.750</td>
<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>5197</td>
<td>Security LFIC Complete</td>
<td>7</td>
<td>1-11/16&quot;</td>
<td>599.925</td>
<td>1765.250</td>
<td>KP4</td>
<td>1765.750</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>K100</td>
<td>Yale® KeyMark® Standard Fixed Core</td>
<td>6 or 7</td>
<td>1-1/8&quot;</td>
<td>NA</td>
<td>No Collar</td>
<td>No Collar</td>
<td>No Collar</td>
<td>1765.312</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>K820/ K860</td>
<td>Yale KeyMark LFIC Complete / Housing Only</td>
<td>6</td>
<td>1-1/2&quot;</td>
<td>599.925</td>
<td>1765.250</td>
<td>KP4</td>
<td>1765.750</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>K820/ K860</td>
<td>Yale KeyMark LFIC Complete / Housing Only</td>
<td>7</td>
<td>1-11/16&quot;</td>
<td>599.1.04</td>
<td>1765.500</td>
<td>1765.250</td>
<td>1765.000</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>K620/ K660</td>
<td>Yale KeyMark SFIC Complete / Housing Only</td>
<td>6</td>
<td>1-1/4&quot;</td>
<td>599.700</td>
<td>KC1</td>
<td>No Collar</td>
<td>No Collar</td>
<td>1765.563</td>
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</tr>
<tr>
<td>K620/ K660</td>
<td>Yale KeyMark SFIC Complete / Housing Only</td>
<td>6</td>
<td>1-3/8&quot;</td>
<td>599.850</td>
<td>1765.250</td>
<td>No Collar</td>
<td>No Collar</td>
<td>1765.500</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A620/ K660</td>
<td>Best® Keyway SFIC Complete / Housing Only</td>
<td>6</td>
<td>1-1/4&quot;</td>
<td>599.700</td>
<td>No Collar</td>
<td>No Collar</td>
<td>No Collar</td>
<td>1765.500</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A620/ K660</td>
<td>Best® Keyway SFIC Complete / Housing Only</td>
<td>6</td>
<td>1-3/8&quot;</td>
<td>599.850</td>
<td>No Collar</td>
<td>No Collar</td>
<td>No Collar</td>
<td>1765.500</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2553</td>
<td>Schlage® “C” Keyway Fixed Core, Available 0-bitted or keyed random.</td>
<td>6</td>
<td>1-1/8&quot;</td>
<td>1161E</td>
<td>NA</td>
<td>2160</td>
<td>2160</td>
<td>2160</td>
<td>1765.312</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Based on 1-3/4" door thickness. Collar length required must be specified for cylinders and/or housings ordered separately.
LFIC = Large Format Interchangeable Core. SFIC = Small Format Interchangeable Core
NA = Application Not Available
*2116 door alarm kit discontinued September 1, 2012.
**Cylinder dogging discontinued August, 2013
### Strikes

#### Rim Devices

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>757F</td>
<td>Standard strike for 2100(F) and 2150(F) devices. Supplied with #10-24 x 3/4&quot; machine screws, two shims (each 1/16&quot; thick), and one locking plate.</td>
<td></td>
</tr>
<tr>
<td>257FWS</td>
<td>Standard strike for 2100(F)WS devices. Supplied with 2 each #10-24 x 1-1/4&quot; and 2 each #10-24 x 3/4&quot; machine screws.</td>
<td></td>
</tr>
<tr>
<td>793</td>
<td>Optional strike for double door applications without a mullion. Supplied with #10-24 x 3/4&quot; machine screws, two shims (each 1/16&quot; thick), and one locking plate. Panic only.</td>
<td></td>
</tr>
<tr>
<td>791</td>
<td>Standard top strike for 2110(F) and 2120(F) series devices. Supplied with #10-24 x 3/4&quot; machine screws, two shims (each 1/16&quot; thick), and one locking plate.</td>
<td></td>
</tr>
<tr>
<td>726</td>
<td>Standard top strike for 2170(F) series devices. Supplied with #12-24 x 11/16&quot; machine screws and #12 x 1-1/4&quot; sheet metal screws, and one shim (1/16&quot; thick).</td>
<td></td>
</tr>
<tr>
<td>761</td>
<td>Standard top strike for 2160(F) series devices. Supplied with #10-32 x 3/8&quot; machine screws and #10 x 1&quot; sheet metal screws.</td>
<td></td>
</tr>
<tr>
<td>797</td>
<td>Optional bracket for mounting 791 top strike in flush transom opening. Supplied with 1/4-20 machine screws; SN-134 sex nuts, optional.</td>
<td></td>
</tr>
<tr>
<td>790</td>
<td>Standard bottom strike for 2110(F), 2120(F), 2160(F) and 2170(F) series devices. Press in place.</td>
<td></td>
</tr>
<tr>
<td>794</td>
<td>Optional bottom strike for fire openings using saddle thresholds or for flush floor mount. Must use for fire openings with 1/2&quot; thresholds. Supplied with #10-24 x 1/2&quot; machine screws and floor anchors.</td>
<td></td>
</tr>
<tr>
<td>702</td>
<td>Optional bottom strike for bottom pullman latch option. Supplied with #8 x 8/32&quot; combination screws.</td>
<td></td>
</tr>
</tbody>
</table>
shim kits
Shim kits are available for devices on doors with interfering molding. Each shim kit contains:
• 2 sets of 1/8" shims (shim up to 1/4")
• Longer fasteners
• Longer tailpiece for the trim
• Installation instructions
• 693 (Black) finish

223 - Shim kit for 2100(F) rim, 2150(F) SquareBolt® and 2120(F) and 2160(F) series* concealed vertical rod exit devices
224 - Shim kit for 2110(F) and 2170(F) series surface vertical rod exit devices.

*Special concealed vertical rod components needed for openings requiring more than (2) shim kits. Details on application.

extension rods
2110 surface vertical rod devices are supplied standard for 7’ (2.13m) standard. Rods may be field cut or used with extension rods for other heights. To order, specify:

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>2010-2</td>
<td>2’ (51mm)</td>
</tr>
<tr>
<td>2010-6</td>
<td>6’ (153mm)</td>
</tr>
<tr>
<td>2010-12</td>
<td>12’ (305mm)</td>
</tr>
<tr>
<td>2010-24*</td>
<td>24’ (610mm)</td>
</tr>
</tbody>
</table>

*Used for 10’ door applications with 2170(F90)

bottom pullman latch
Optional bottom Pullman latch available for panic-listed vertical rod exit devices. To order with devices, specify “BPL.” 702 bottom strike required, see page 19.

specialty fasteners

Sex Nuts:
Required for wood, composite or unreinforced metal doors. To order specify:
• SN-104 – pack of (4) 10-24 sex nuts for all fire rim exits
• SN-134 – pack of (4) 1/4-20 sex nuts for all devices

Wood Door Fasteners:
For solid core wood doors, permitted if pilot holes are used to install screws. Consult the factory for availability.

Torx® Security Screws available for factory product orders.
accessories/options

long tailpiece kit
Long tailpiece kit for use with escutcheon series trim, up to 4-1/2” thick doors. Specify part number to order.

<table>
<thead>
<tr>
<th>Door Thickness</th>
<th>Trim Type</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>2” - 2-1/2”</td>
<td>620F and 630F Series Trim</td>
<td>81-9500-1665-000</td>
</tr>
<tr>
<td>2-1/2” - 3-1/2”</td>
<td>620F and 630F Series Trim</td>
<td>81-9500-1635-000</td>
</tr>
<tr>
<td>3-1/2” - 4-1/2”</td>
<td>620F and 630F Series Trim</td>
<td>81-9500-1636-000</td>
</tr>
</tbody>
</table>

wide style cover
2100 series devices are available with an optional wide style cover. To order with device, specify option: "WIDE".

To order cover separately, specify part number:
- 60-2000-1241 x Finish = for use with 2100(F)
- 60-2150-1244 x Finish = for use with 2150(F)
- 60-2110-1243 x Finish = for use with 2110(F) & 2170(F)
- 60-2000-1240 x Finish = for use with 2120(F) & 2160(F)

plastic installation template
Provided as a standard with all 2100 series exit device, the plastic installation template facilitates door markings over traditional paper templates. This provides a more accurate door prep which reduces installation mistakes and overall installation time. Template dimensions: 8-1/4”x 3-1/4“ (210mm x 83mm). To order separately, specify part number: 60-7000-9100-999.

Schlage® cam assembly
This cam and housing assembly includes a cam engineered to accept Schlage® rim cylinders. No modifications are required to existing 500 and 600 series exit device trims thus maintaining the trim's classroom and storeroom functions. To order, specify part number: 60-7000-0815.

Von Duprin® tailpiece
This tailpiece is available for the Yale® 1109 rim cylinder to operate the night latch function for Von Duprin® exit devices. To order, specify part number: 34-1145-1005-048
mullions

M200(F) removable mullion

M200(F) steel mullions are for use with 2100(F) series exit devices. Mullions may be field cut to fit opening. Red primer finish.

- M200 panic rated. Tubular steel, 2' x 3' (51mm x 76mm). Specify 7', 8', or 10'.
- M200F 3 hour fire rated. Tubular steel, 2' x 3' (51mm x 76mm). Specify 7' or 8'.

M200(F) options

- **M203 Spacer Block**
  Recommended for double rabbeted frames where the stop face width is less than the mounting hole spacing or for applications with 5-3/4" (146mm) or less door frames.

- **M204 Angle Bracket**
  Recommended for any header configuration with less than 3" (76mm) of mounting surface.
mullions

KRM200(F) keyed removable mullion (KRM)

Keyed removable mullions are for use with 2100(F) series exit devices. They are designed for simple removing when an unobstructed large opening is required and easy replacement and locking to maintain the integrity of the opening.

- KRM200 panic rated. Specify 7’, 8’, or 10’.
- KRM200F 1-1/2 hour fire rated. Specify 7’ or 8’.

krm features

- Easy cylinder installation.
- Mullion automatically relocks when reinstalled without the use of the cylinder key.
- When ordering, add KR prefix to mullion, example: KRM200 and KRM200F.

krm options

- **M203 Spacer Block**
  Recommended for double rabbeted frames where the stop face width is less than the mounting hole spacing or for applications with 5-3/4’ (146mm) or less door frames.

- **M204 Angle Bracket**
  Recommended for any header configuration with less than 3’ (76mm) of mounting surface.

krm cylinders

As with any exit device trim, you must order a cylinder and collar if one is required. The Yale® keyed removable mullion accepts a mortise cylinder. Refer to page 18 for details.
stand-alone door alarm

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

This unit is ideal for emergency doors as well as stairwell doors and rear exit doors in retail environments. The unit, which can also be hardwired, easily complements existing hardware, making any opening alarmed. The SDA16 door alarm is typically mounted on the interior of the door frame or door and is paired with a magnet mounted on the opposing side of the door gap.

features

- Dimensions: 8.3”L x 3.1”W x 2.0”D (210mm L x 79mm W x 52mm D)
- Non-handed unit (field reversible)
- Unit powered by 9V battery
- Unit can be hardwired by using WH-11 wire harness and 784 power supply
- No battery is required in unit with hard-wire option – if power is lost, optional gel-cell battery in power supply will give approximately 10,000 operations
- Reverse battery protection safeguards the unit if the battery is incorrectly installed
- A low-voltage battery is indicated by an audible signal every 30 seconds
- Piezo horn blasts at 105+ decibels if the door is used with out proper authorization
- The LED will flash every 30 seconds, indicating either the unit is armed or, if under auto reset, that the door has been violated
- Various field-adjustable features by dip switch including automatic alarm reset, REX and passage time delay, and LED color preference
- A tamper switch provides instantaneous signal to sound horn in the event the cover is removed. Horn will sound until the unit is reset by the key or remote reset/arm switch
- Conformally coated electronics for weather resistance
- Cover is held in place by cam lock which protects mounting screws, electrical system and internal sensors
- Accepts external cylinder (not included, must be specified)
- Accepts standard mortise cylinders (not included, must be specified)

remote mounting

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

Note: Actual wire length is 6 feet.

cylinders and accessories

- 784 Power supply (9VDC) — includes plug-in wall transformer
- Plug-in wall transformer with 12’ cable assembly (part no. 00-0000-3425)
- Gel-cell battery — optional for use with 784 power supply (part no. 00-0000-3426)
- WH-11 Wire harness for remote power and remote unlock
- Mortise cylinder for unit
- Rim cylinder for outside control
- See pages 16 & 18 for cylinder information.
## Facts and Figures

Dimensions are in: inches (mm)

<table>
<thead>
<tr>
<th>Device Size</th>
<th>“A”</th>
<th>“B”</th>
</tr>
</thead>
<tbody>
<tr>
<td>36&quot;</td>
<td>32-3/8&quot; (82cm)</td>
<td>27&quot; (69cm)</td>
</tr>
<tr>
<td>42&quot;</td>
<td>38-3/8&quot; (98cm)</td>
<td>33&quot; (84cm)</td>
</tr>
<tr>
<td>48&quot;</td>
<td>44-3/8&quot; (113cm)</td>
<td>39&quot; (99cm)</td>
</tr>
</tbody>
</table>

## Trim Dimensions

<table>
<thead>
<tr>
<th>620F Series</th>
<th>630F Series</th>
<th>580F Series</th>
</tr>
</thead>
<tbody>
<tr>
<td>13/16&quot; (19mm)</td>
<td>5/8&quot; (16mm)</td>
<td>4&quot; (102mm)</td>
</tr>
<tr>
<td>3&quot; (76mm)</td>
<td>2-3/4&quot; (70mm)</td>
<td>8&quot; (203mm)</td>
</tr>
<tr>
<td>10-1/4&quot; (250mm)</td>
<td>15-1/2&quot; (394mm)</td>
<td>1/8&quot; (2mm)</td>
</tr>
</tbody>
</table>
## Ordering Information

<table>
<thead>
<tr>
<th>Third Digit:</th>
<th>Fourth Digit:</th>
<th>Suffix</th>
<th>-XX</th>
<th>Outside Trim Width</th>
<th>Finish</th>
<th>Other Info</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;0&quot; - Rim Device, Pullman Latch</td>
<td>&quot;0&quot; - Standard</td>
<td>No Suffix - Panic label</td>
<td>613E, 630, 639, 691</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&quot;1&quot; - SVR Device</td>
<td></td>
<td>&quot;F&quot; - Fire exit device</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&quot;2&quot; - CVR Device</td>
<td></td>
<td>&quot;WS&quot; - Windstorm Certified Products (see notes 4, 5, 6)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&quot;5&quot; - SquareBolt® Rim Security</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&quot;6&quot; - CVR Device</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>&quot;7&quot; - SVR Device</td>
<td></td>
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</tbody>
</table>

### Notes:
1. It is recommended that exit devices and trim for the same opening be ordered together.
2. Standard product is for 1-3/4" (44mm) reinforced metal doors.
3. Accessories detached from the device and trim should be specified separately.
4. "WS" applies only to 2100(F) devices.
5. Maximum opening size 3'0" x 7'0".
6. Contact Ceco, Curries® or Fleming for detailed frame/door requirements and limitations.

### Size:
- **36"** - 30" - 36" (0.76m to 0.91m) DOW
- **42"** - 36" to 42" (0.91m to 1.07m) DOW
- **48"** - 42" to 48" (1.07m to 1.22m) DOW

### Shelf Model Number:
See pages 12-15

### Door Hand:
- RHR or LHR (vertical rod devices or lever escutcheon trim only).
- Rim devices are field reversible.

### SN-134, 1/4-20 Sex Nuts (pack of 4).
### SN-104, 10-24 Sex Nuts (pack of 4).

### Door thickness: over 1-3/4" (45mm).

### Rod Extensions:
- (quantity) 2010-2
- (quantity) 2010-6
- (quantity) 2010-12
- (quantity) 2010-24

### Shim Kits:
- (quantity) 223
- (quantity) 224

### Optional Strike Bottom Pullman Latch Removable Mullion:
- M200, Panic Exit
- M200F, Fire Exit
- KRM200, Panic Exit
- KRM200F, Fire Exit

### Custom Cylinder & Cylinder Collar Factory Keying
sample specification

Exit devices shall be 2100 Series Pushpad Exit Devices as manufactured by Yale Locks & Hardware.

The exit device chassis and push pad assembly shall be of high-grade non-ferrous steel material, electroplated for protection against rust, and shall have a baked powder coating. The maximum projection shall be 2-1/2" when the push pad is active and 1-3/4" when the push pad is dogged down. Nylon bearings and stainless steel springs shall be used for long life and durability; only torsion springs are acceptable. Rear and active case covers shall be steel and shall have a baked powder coating to match the exit bar. Plastic covers are not acceptable. Latchbolts shall be steel and shall incorporate a deadlocking latch for increased security. Devices without deadlocking latches are not acceptable. Mounting screws shall be concealed to deter tampering. Devices shall be closed on all sides with no pinch points. Exit devices shall be easily field sized to accommodate various door widths.

Panic-listed exit devices shall have single point, one quarter turn hex key dogging standard. Panic-listed devices shall be available less dogging.

Trims shall be through-bolted with concealed fasteners. Escutcheon and pull-type trims shall be constructed of brass, bronze or zinc. All lever trims shall use cast or forged levers. On rim and vertical rod trims with cylinders, the mechanism that locks and unlocks the trim shall be housed in the trim and not in the active case of the exit device. Lever trims shall be Free Wheeling with clutch mechanism allowing lever to rotate 60° when locked to prevent vandalism. Lever trims shall match those on Yale® mortise and cylindrical locksets.

Exit devices and trims shall be furnished in ANSI/BHMA standard architectural finishes. Exit devices shall be listed by Underwriters Laboratories (UL, cUL) for safety as panic hardware. Fire-rated devices shall be listed for “A” label and lesser class doors. Devices shall also be UL listed for ZHEM - latching hardware and ZHLA - windstorm rated assemblies.

Certification:
ANSI/BHMA A156.3, Grade 1

Devices, trims and cylinders shall be from one manufacturer. Devices shall carry a three-year warranty and escutcheon trims shall carry a five-year warranty.
online literature and templates

For the latest information on Yale Locks & Hardware products, visit our website at: www.yalelocks.com

Click on the “Product Information” button to find:

- Catalogs
- Parts manuals
- Templates
- Specifications
- Installation instructions

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- Check availability of QuickShip items
- Track your order and confirm delivery
- Receive email notification of template changes
  And More...

Or contact us at:

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Tel: 1-800-438-1951 • Fax: 1-800-338-0965 • www.yalelocks.com

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Address: 160 Four Valley Drive, Vaughan, Ontario L4K 4T9
Tel: 1-800-461-3007 • Fax: 1-800-461-8989 • www.assaabloy.ca

International:
ASSA ABLOY Americas International
Tel: 1-905-821-7775 • Fax: 1-905-821-1429 • www.assaabloyai.com

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ASSA ABLOY is the global leader in door opening solutions, dedicated to satisfying end-user needs for security, safety and convenience.