1800 Series
Flatbar Exit Devices
introduction

Yale® 1800 series exit devices are the ideal choice for economy commercial applications where consistent quality, ease of use and installation are required.

1800(F) rim and 1810(F) surface vertical rod devices are certified ANSI/BHMA A156.3, Grade 1 and their performance, construction and versatility make them perfect for a variety of facilities.

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

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

fire listings
1800 series exit devices are UL-cUL Listed for use on fire doors having a rating up to and including 3-hours.

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

free wheeling lever trim
1800 series 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.

exit device applications

Single Door
- Rim Exit Device
  - ANSI/BHMA A156.3 Type 1
  - Easy installation
  - Flush or wide stile metal, wood or composite doors
  - Non-handed
  - Exit only or with entry trim

Pairs of Doors
- One Rim - One Vertical Rod Exit Device
  - An economic solution for light traffic openings
  - Flush or wide stile metal, wood or composite doors
  - Non-handed
  - Emergency exit only

Pairs of Doors with Center Mullion

Pairs of Doors or Double Egress Opening

Two Rim Exit Devices - One Removable Mullion
- ANSI/BHMA A156.3 Type 1 and Type 22
- Easy installation
- Flush or wide stile metal, wood or composite doors
- Non-handed
- Exit only or with entry trim

Two Surface Vertical Rod Exit Devices
- ANSI/BHMA A156.3 Type 2
- Two-point latch security
- Flush or wide stile metal, wood or composite doors
- Smoke control or fire exits
- Two-way traffic control

finishes

<table>
<thead>
<tr>
<th>ANSI/BHMA Code</th>
<th>Finish Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>626*</td>
<td>Satin Chrome Plated</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>

*Trim only finish option.
Note: Exit device latchhead cover and end caps provided in black for all finishes.

warranty
The 1800 series exit devices and escutcheon trim carry a one-year warranty. Cylindrical Trims carry a two-year warranty.
Trim applications

ANSI types 1 (Rim) and 2 (Surface Vertical Rod) exit device requirements are met (or exceeded) by 1800(F) and 1810(F) respectively. Any of these exit devices may be used with any of the trim on the following chart. Trims are charted according to ANSI trim function and illustrations show typical function features, rather than pictorial renderings of the trims listed. Specific trim details are shown on pages 6-7.

<table>
<thead>
<tr>
<th>ANSI</th>
<th>Device (ANSI)</th>
<th>Rim (Type 1)</th>
<th>SVR (Type 2)</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>Exit Only, No Trim/Exit Only, Blank Plate</td>
<td>420F</td>
<td>420F</td>
</tr>
<tr>
<td>02</td>
<td>Pull to Open (Dummy Trim)</td>
<td>214F 428F* 449F* 420F</td>
<td>214F 428F* 449F* 420F</td>
</tr>
<tr>
<td>03</td>
<td>Key Retracts Latchbolts (NL)</td>
<td>213F 427F 217F 441F 421F</td>
<td>213F 427F 217F 441F 421F</td>
</tr>
<tr>
<td>08</td>
<td>Entrance by Lever (Key Locks/Unlocks Lever)</td>
<td>426F 446F</td>
<td>426F</td>
</tr>
<tr>
<td>09</td>
<td>Key Unlocks Lever (Key Removable When Locked)</td>
<td>426F*</td>
<td>426F*</td>
</tr>
<tr>
<td>14</td>
<td>Lever Always Active (Passage)</td>
<td>428F 448F</td>
<td>428F 448F</td>
</tr>
</tbody>
</table>

*Trims marked with an asterisk on the Application Chart require an easy field change to adapt them for the charted function.

Facts and figures

Device Size | “A” | “B” |
-------------|-----|-----|
36"          | 33" (84cm) | 27" (69cm) |
42"          | 39" (99cm) | 33" (84cm) |
48"          | 45" (114cm) | 39" (99cm) |
**1800 series | grade 1 exit devices**

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**rim 1800(F)**

The 1800(F) is a rim exit device to be used with single doors or pairs of doors constructed of metal, wood or composite materials. The 1800(F) can be paired with a wide variety of trims to meet many applications.

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**certification/compliance**

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

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

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**features**

- Designed for wide stile doors
- Non-handed for easy installation
- Steel interlock “E” bracket maintains door-to-mullion relationship in fire-labeled devices

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**applications**

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

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**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. Refer to page 10 for other door thicknesses

Minimum Stile Width: 4-1/2” (114mm)

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

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

Trims: 210F series utility trim, 420F series escutcheon trim, 440F series rose trim

Dogging: Hex key dogging supplied standard on panic devices

Finishes: 689, 691, 693, 695

Options: Shim Kit #223, Sex Nuts and Bolts

Warranty: 1-year limited
surface vertical rod

1810(F)
The 1810(F) is a surface vertical rod exit device to be used on metal, wood or composite pairs of doors up to 8’ where two-point latching is desired.

certification/compliance

UL/cUL Listed: FVSR/FVSR7 - Panic hardware
GXH/GXH7 - Fire exit hardware (F)
(8’ x 8’ pairs, 3 hr.)

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

features

• Designed for wide stile and flush doors
• Handed, specify hand (field reversible)
• 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’ (244cm) by using rod extensions

Door Thickness: 1-3/4” (44mm) standard. Refer to page 10 for other door thicknesses

Minimum Stile Width: 4-1/2” (114mm)

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

794 floor strike optional (threshold openings), 702 optional (Bottom Pullman Latch)

Trims: 210F series utility trim, 420F series escutcheon trim, 440F series rose trim

Dogging: Hex key dogging supplied standard on panic devices

Finishes: 689, 691, 693, 695

Options: Shim Kit #224, Sex Nuts and Bolts, Bottom Pullman Latch (panic only)

Warranty: 1-year limited
outside trim
lever designs

AU Augusta
Projection: 2-5/16" (59mm)

MO Monroe
Projection: 2-3/16" (71mm)

PB Pacific Beach
Projection: 2-3/4" (70mm)

420F series wide escutcheon trim

- Certified ANSI/BHMA A156.3, Grade 1.
- Through-bolted. 1-3/4" (44mm) door standard. For doors thru 2-1/4" (57mm) or shim-mounted devices, specify on order.
- Dimensions: 2-1/2" x 9-1/2" x 1/4" (64mm x 241mm x 6mm).
- Cylinders not included. For rim cylinders, see pages 8-9.
- Finishes: 689, 691, 693, 695.
- 1-year warranty.
- Ordering Example: PB428F x LHR x 689.

<table>
<thead>
<tr>
<th>Applications</th>
<th>Cylinder</th>
<th>Exit Only Blank Plate</th>
<th>Nightlatch</th>
<th>Classroom/Storeroom</th>
<th>Nightlatch</th>
<th>Dummy Free Wheeling</th>
<th>Passage</th>
<th>Dummy Rigid Lever</th>
</tr>
</thead>
<tbody>
<tr>
<td>1800(F) 1810(F)</td>
<td>Rim</td>
<td>420F</td>
<td>421F*</td>
<td>426F</td>
<td>427F*</td>
<td>428F</td>
<td>428F</td>
<td>429F</td>
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<tr>
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<td></td>
<td>01</td>
<td>03</td>
<td>08/09</td>
<td>03</td>
<td>02</td>
<td>14</td>
<td>02</td>
</tr>
</tbody>
</table>

*Not recommended for use with 1810(F) surface vertical rod exit devices.
Note: 09 and Free Wheeling 02 achieved with single trim modification at installation.
outside trim

440F series rose trim

- Certified ANSI/BHMA A156.3, Grade 1.
- 440F rose trim for stock doors (161 Prep).
- 1-3/4" (44mm) door standard. For doors thru 2-1/4" (57mm) or shim-mounted devices, specify on order.
- Cylinders included, accepts component cylinders. See pages 8-9.
- Finishes: 626, 689, 691, 693, 695.
- “B” trim prefix – Lever trim accepting small format interchangeable cores (SFIC). Specify 6- or 7-pin. (Example: B-AU446F)
- 2-year warranty.
- Ordering example: AU446F x RHR x 693.

<table>
<thead>
<tr>
<th>Applications</th>
<th>Nightlatch Access by Key</th>
<th>Classroom</th>
<th>Dummy Trim Free Wheeling Lever</th>
<th>Passage Lever</th>
<th>Dummy Trim Rigid Lever</th>
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</thead>
<tbody>
<tr>
<td>1800(F)</td>
<td>441F</td>
<td>446F</td>
<td>448F</td>
<td>448F</td>
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<tr>
<td>1810(F)</td>
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<tr>
<td>ANSI</td>
<td>03</td>
<td>08</td>
<td>02</td>
<td>14</td>
<td>02</td>
</tr>
</tbody>
</table>

210F series trim

- Through-bolted. 1-3/4" (44mm) door standard. For doors thru 2-1/4" (57mm) or shim-mounted devices, specify on order.
- Plate Dimensions: 3-1/2" x 3-3/4" x 3/32" (89mm x 95mm x 2mm).
- Finger Pull Dimensions: 3-1/2" x 6-3/4" x 1/8" (89mm x 171mm x 3mm).
- Cylinders not included. For rim cylinder options, see pages 8-9.
- Finishes: 689, 691, 693, 695.
- 1-year warranty.

<table>
<thead>
<tr>
<th>Application</th>
<th>Cylinder</th>
<th>Nightlatch Access by Key</th>
<th>Dummy Trim Pull Plate</th>
<th>Nightlatch Cylinder x Pull</th>
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</thead>
<tbody>
<tr>
<td>1800(F)</td>
<td>Rim</td>
<td>213F*</td>
<td>214F</td>
<td>217F*</td>
</tr>
<tr>
<td>1810(F)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ANSI</td>
<td>03</td>
<td>02</td>
<td>03</td>
<td></td>
</tr>
</tbody>
</table>

*Not recommended for use with 1810(F) surface vertical rod exit devices.
cylinders

<table>
<thead>
<tr>
<th>Illustration</th>
<th>Type</th>
<th>Model Number</th>
<th>Number of Pins</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Cylinder used for trim series 210F and 420F</td>
<td>1109</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Cylinder used for trim series 440F</td>
<td>1802</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Cylinder used for KRM200(F)</td>
<td>2153</td>
<td>6</td>
</tr>
</tbody>
</table>

keying

All cylinders furnished standard 6-pin, keyed random in Yale® PARA keyway, pinned to Yale .019" specification. Each cylinder furnished with two nickel silver keys.

options

Cylinders available 0-bitted, keyed alike, master keyed or construction master keyed upon request.
competitor keyway cylinders/cores

<table>
<thead>
<tr>
<th>Illustration</th>
<th>Type</th>
<th>Model Number</th>
<th>Number of Pins (Specify)</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Best® Keyway Core" /></td>
<td>Best® Keyway Core. Available keyed random, master keyed or uncombinated. Specify keyway A, B, C, D, E, F, G, H, J, K, L or M.</td>
<td>A600</td>
<td>6 or 7</td>
</tr>
<tr>
<td><img src="image" alt="Schlage® &quot;C&quot; Keyway Cylinder" /></td>
<td>Schlage® &quot;C&quot; Keyway Cylinder. For use with 210F and 420F series trim. Available 0-bitted or keyed random.</td>
<td>2109</td>
<td>6</td>
</tr>
<tr>
<td><img src="image" alt="Schlage® &quot;C&quot; Keyway Cylinder" /></td>
<td>Schlage® &quot;C&quot; Keyway Cylinder. For use with 440F series trim. Available 0-bitted or keyed random.</td>
<td>2802</td>
<td>6</td>
</tr>
<tr>
<td><img src="image" alt="Rim SFIC Cylinder" /></td>
<td>Rim SFIC Cylinder. Includes Best Keyway Core. For use with 210F and 420F series trim. Available keyed random, master keyed or uncombinated. Specify keyway A, B, C, D, E, F, G, H, J, K, L or M.</td>
<td>A640</td>
<td>6 or 7 Specify Length: 1-1/4&quot; (6-pin only) 1-3/8&quot; (6- or 7-pin)</td>
</tr>
<tr>
<td><img src="image" alt="Mortise SFIC Cylinder" /></td>
<td>Mortise SFIC Cylinder. Includes Best Keyway Core. For use with Key Removable Mullion. Available keyed random, master keyed or uncombinated. Specify keyway A, B, C, D, E, F, G, H, J, K, L or M.</td>
<td>A620</td>
<td>6 or 7 Specify Length: 1-1/4&quot; (6-pin only) 1-3/8&quot; (6- or 7-pin)</td>
</tr>
<tr>
<td><img src="image" alt="Schlage® &quot;C&quot; Keyway Cylinder" /></td>
<td>Schlage® &quot;C&quot; Keyway Cylinder. For use with Key Removable Mullion. Available 0-bitted or keyed random.</td>
<td>2553</td>
<td>6</td>
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</tbody>
</table>

small format interchangeable core (SFIC)

<table>
<thead>
<tr>
<th>Model/Prefix</th>
<th>Description</th>
<th>Length</th>
<th>Number of Pins (Specify)</th>
<th>Ordering Example</th>
</tr>
</thead>
<tbody>
<tr>
<td>B-</td>
<td>Prefix for cylindrical lever with SFIC prep. Less core. For use with 440F series trim.</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>B-</td>
<td>Prefix for cylindrical lever with SFIC prep. Less core. For use with 440F series trim.</td>
<td>—</td>
<td>—</td>
<td>B-AU446F x 693</td>
</tr>
<tr>
<td>K680</td>
<td>Rim SFIC housing only. For use with 210F and 420F series trim.</td>
<td>1-1/4&quot;</td>
<td>X</td>
<td>AU426F x K680 x 1-1/4&quot; x 693</td>
</tr>
<tr>
<td>K680</td>
<td>Rim SFIC housing only. For use with 210F and 420F series trim.</td>
<td>1-3/8&quot;</td>
<td>X</td>
<td>AU426F x K680 x 1-3/8&quot; x 693</td>
</tr>
<tr>
<td>K660</td>
<td>Mortise SFIC housing only. For use with Key Removable Mullion.</td>
<td>1-1/4&quot;</td>
<td>X</td>
<td>KR200F x K660 x 1-1/4&quot;</td>
</tr>
<tr>
<td>K660</td>
<td>Mortise SFIC housing only. For use with Key Removable Mullion.</td>
<td>1-3/8&quot;</td>
<td>X</td>
<td>KR200F x K660 x 1-3/8&quot;</td>
</tr>
</tbody>
</table>
strikes

rim devices

757F
Standard strike for 1800(F) devices. Supplied with #10-24 x 3/4" machine screws, two shims (each 1/16" thick), and one locking plate.

793
Optional strike for double door applications without a mullion. Supplied with #10-24 x 3/4" machine screws, two shims (each 1/16" thick), and one locking plate.

vertical rod devices - top strikes

791
Standard top strike for 1810(F) devices. Supplied with #10-24 x 3/4" machine screws, two shims (each 1/16" thick), and one locking plate.

797
Optional bracket for mounting 791 top strike in flush transom opening. Supplied with 1/4-20 machine screws; SN-134 sex nuts, optional.

vertical rod devices - bottom strikes

790
Standard bottom strike for 1810(F) devices. Press in place.

794
Optional bottom strike for fire openings using saddle thresholds or for flush floor mount. Must use for fire openings with 1/2" thresholds. Supplied with #10-24 x 1/2" machine screws and floor anchors.

702
Optional bottom strike for bottom pullman latch option. Supplied with #8 x 8/32" combination screws.
accessories

shim kits
Shim kits are available for devices on doors with interfacing molding. Each shim kit contains:
- 2 sets of 1/8” shims (shim up to 1/4”)
- Longer fasteners
- Longer connecting bar for the trim
- Installation instructions

223 – Shim Kit for 1800(F) Series rim exit devices
224 – Shim Kit for 1810(F) Series surface vertical rod exit devices

extension rods
1810(F) surface vertical rod devices are supplied standard for 7” (213cm) 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>
</tbody>
</table>

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.

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>420F Series Trim</td>
<td>81-9500-1665-000</td>
</tr>
<tr>
<td>2-1/2” - 3-1/2”</td>
<td>420F Series Trim</td>
<td>81-9500-1635-000</td>
</tr>
<tr>
<td>3-1/2” - 4-1/2”</td>
<td>420F Series Trim</td>
<td>81-9500-1636-000</td>
</tr>
</tbody>
</table>

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 10.
mullions

M200(F) removable mullion

M200(F) mullions are for use with 1800(F) Series exit devices. Mullions may be field cut to fit opening. Red primer finish.

- M200 Removable Mullion
  For Panic Exits. Tubular steel, 2" x 3" (51mm x 76mm). Specify 7', 8', or 10'.
- M200F Removable Mullion
  For Fire Exits. 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

keyed removable mullion (KRM)

Keyed removable mullions are for use with 1800(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 Keyed Removable Mullion for Panic Exits. Specify 7’, 8’, or 10’.
- KRM200F Keyed Removable Mullion for Fire Exits. 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 below and to pages 8-9 for details.

krm collars

<table>
<thead>
<tr>
<th>Cylinder Model #</th>
<th>Length</th>
<th>Collar Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>2153 or 2553</td>
<td>1-1/4&quot;</td>
<td>1765.312</td>
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<tr>
<td>A620 or K660</td>
<td>1-3/8&quot;</td>
<td>1765.563</td>
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<td></td>
<td>1-1/4&quot;</td>
<td>1765.406</td>
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## How to Order

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<th>0</th>
<th>Suffix</th>
<th>-XX</th>
<th>Outside Trim</th>
<th>Finish</th>
<th>Other Info</th>
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<tbody>
<tr>
<td>18</td>
<td>1</td>
<td>X</td>
<td>0</td>
<td>Suffix</td>
<td>-XX</td>
<td>Outside Trim</td>
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<td>695</td>
<td>626</td>
<td>689</td>
<td>691</td>
<td>693</td>
</tr>
</tbody>
</table>

**Notes:**
- It is recommended that exit devices and trim for the same opening be ordered together.
- Standard product is for 1-3/4" (44mm) reinforced metal doors.
- Accessories detached from the device and trim should be specified separately.
- 626 finish offered for 440F series trim only.
online literature and templates

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

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

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**Canada:**
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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

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