



# 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.

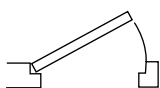
## free wheeling lever trim

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

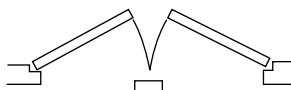
### Pairs of Doors



#### 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

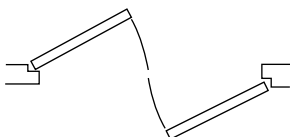
### Pairs of Doors with Center Mullion



#### 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

### Pairs of Doors or Double Egress Opening



#### 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

## contents

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## finishes

| ANSI/BHMA Code | Finish Description   |
|----------------|----------------------|
| 626*           | Satin Chrome Plated  |
| 689            | Aluminum Painted     |
| 691            | Light Bronze Painted |
| 693            | Black Painted        |
| 695            | Dark Bronze Painted  |

\*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.



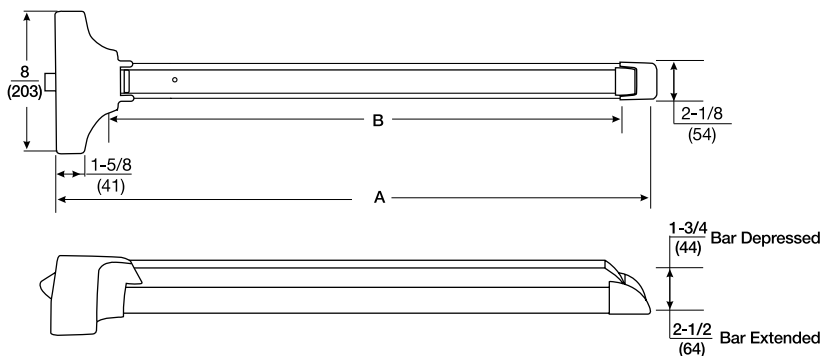
## trim applications

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.

| Trim | Device (ANSI)                                       | Rim (Type 1)        |                                   | SVR (Type 2)        |                                   |
|------|---|---------------------|-----------------------------------|---------------------|-----------------------------------|
|      | Options   | 1800(F)<br>(Page 4) |                                   | 1810(F)<br>(Page 5) |                                   |
| ANSI | Function  |                     |                                   |                     |                                   |
| 01   | Exit Only, No Trim/<br>Exit Only, Blank Plate       |                     | 420F                              |                     | 420F                              |
| 02   | Pull to Open (Dummy<br>Trim)                        |                     | 214F 448F*<br>428F* 449F*<br>429F |                     | 214F 448F*<br>428F* 449F*<br>429F |
| 03   | Key Retracts<br>Latchbolts (NL)                     |                     | 213F 427F<br>217F 441F<br>421F    |                     | 213F 427F<br>217F 441F<br>421F    |
| 08   | Entrance by Lever<br>(Key Locks/Unlocks<br>Lever)   |                     | 426F<br>446F                      |                     | 426F<br>446F                      |
| 09   | Key Unlocks Lever<br>(Key Removable<br>When Locked) |                     | 426F*                             |                     | 426F*                             |
| 14   | Lever Always Active<br>(Passage)                    |                     | 428F<br>448F                      |                     | 428F<br>448F                      |

\*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) |

## 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.



## certification/compliance

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

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



## features

- Designed for wide stile doors
- 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<br>-42 for 36" - 42" (91cm - 107cm) doors<br>-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  
GXHX/GXHX7 - Fire exit hardware (F)  
(8' x 8' pairs, 3 hr.)

ANSI/BHMA

Certified: A156.3 Type 2, Grade 1 



### features

- Designed for wide stile and flush doors
- Handed, specify hand (field reversible)
- 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
- Strike: Top: Roller type 791. Bottom: Flush mounted 790.  
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






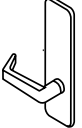



## outside trim lever designs

|  |  |   |
|--|--|---|
| <b>AU Augusta</b> <br><br>Projection: 2-5/16" (59mm) | <b>MO Monroe</b> <br><br>Projection: 2-3/16" (71mm) | <b>PB Pacific Beach</b> <br><br>Projection: 2-3/4" (70mm) |
|--|--|---|

## 420F series wide escutcheon trim

- Certified ANSI/BHMA A156.3, Grade 1. **BHMA CERTIFIED**
- 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.

|   |                 |   |   |   |   |   |                |   |
|---|-----------------|---|---|---|---|---|----------------|---|
|  |                 |  |  |  |  |  |                |  |
| <b>Applications</b>   | <b>Cylinder</b> | <b>Exit Only Blank Plate</b>  | <b>Nightlatch</b>   | <b>Classroom/ Storeroom</b>   | <b>Nightlatch</b>   | <b>Dummy Free Wheeling</b>  | <b>Passage</b> | <b>Dummy Rigid Lever</b>  |
| 1800(F)<br>1810(F)  | Rim             | 420F  | 421F*   | 426F  | 427F*   | 428F  | 428F           | 429F  |
| ANSI  |                 | 01  | 03  | 08/09   | 03  | 02  | 14             | 02  |

**\*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.

|                     |                                 |                  |                                       |                      |                               |
|---------------------|---------------------------------|------------------|---------------------------------------|----------------------|-------------------------------|
|                     |                                 |                  |                                       |                      |                               |
|                     | <b>AU</b>                       | <b>MO</b>        | <b>PB</b>                             |                      |                               |
| <b>Applications</b> | <b>Nightlatch Access by Key</b> | <b>Classroom</b> | <b>Dummy Trim Free Wheeling Lever</b> | <b>Passage Lever</b> | <b>Dummy Trim Rigid Lever</b> |
| 1800(F)<br>1810(F)  | 441F                            | 446F             | 448F                                  | 448F                 | 449F                          |
| ANSI                | 03                              | 08               | 02                                    | 14                   | 02                            |

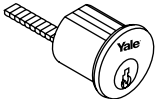
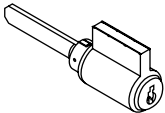

### 210F series trim

- 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.

|                    |                 |                                 |                                   |
|--------------------|-----------------|---------------------------------|-----------------------------------|
|                    |                 |                                 |                                   |
| <b>Application</b> | <b>Cylinder</b> | <b>Nightlatch Access by Key</b> | <b>Dummy Trim Pull Plate</b>      |
| 1800(F)<br>1810(F) | Rim             | 213F*                           | 214F                              |
| ANSI               |                 | 03                              | 02                                |
|                    |                 |                                 | <b>Nightlatch Cylinder x Pull</b> |
|                    |                 |                                 | 217F*                             |
|                    |                 |                                 | 03                                |

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

## cylinders

| Illustration  | Type  | Model Number | Number of Pins |
|---|---|--------------|----------------|
|  | Cylinder used for trim series 210F and 420F | 1109         | 6              |
|  | Cylinder used for trim series 440F          | 1802         | 6              |
|  | Cylinder used for KRM200(F)                 | 2153         | 6              |

## 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


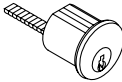
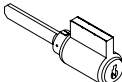
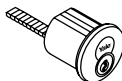


Cylinders available 0-bitted, keyed alike, master keyed or construction master keyed upon request.





1800 series | grade 1 exit devices

competitor keyway cylinders/cores

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

small format interchangeable core (SFIC)

| Model/<br>Prefix | Description  | Length | Number of Pins (Specify) |       | Ordering Example             |
|------------------|--|--------|--------------------------|-------|------------------------------|
|                  |  |        | 6-Pin                    | 7-Pin |                              |
| B-               | Prefix for cylindrical lever with SFIC prep. Less core. For use with 440F series trim. | —      | —                        | —     | B-AU446F x 693               |
| K680             | Rim SFIC housing only. For use with 210F and 420F series trim.                         | 1-1/4" | X                        | —     | AU426F x K680 x 1-1/4" x 693 |
|                  |  | 1-3/8" | X                        | X     |                              |
| K660             | Mortise SFIC housing only. For use with Key Removable Mullion.                         | 1-1/4" | X                        | —     | KRM200F x K660 x 1-1/4"      |
|                  |  | 1-3/8" | X                        | X     |                              |

## strikes

### rim devices

|  |  |
|--|--|
|  |  |
| <p><b>757F</b><br/>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.</p> | <p><b>793</b><br/>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.</p> |

### vertical rod devices - top strikes

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

### vertical rod devices - bottom strikes

|   |   |  |
|---|---|--|
|   |   |  |
| <p><b>790</b><br/>Standard bottom strike for 1810(F) devices. Press in place.</p> | <p><b>794</b><br/>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.</p> | <p><b>702</b><br/>Optional bottom strike for bottom pullman latch option. Supplied with #8 x 8/32" combination screws.</p> |



## 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:

| Model Number | Length      |
|--------------|-------------|
| 2010-2       | 2" (51mm)   |
| 2010-6       | 6" (153mm)  |
| 2010-12      | 12" (305mm) |

### 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.

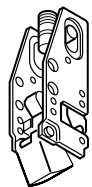
### long tailpiece kit

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

| Door Thickness  | Trim Type        | Part Number      |
|-----------------|------------------|------------------|
| 2" - 2-1/2"     | 420F Series Trim | 81-9500-1665-000 |
| 2-1/2" - 3-1/2" | 420F Series Trim | 81-9500-1635-000 |
| 3-1/2" - 4-1/2" | 420F Series Trim | 81-9500-1636-000 |

### 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.



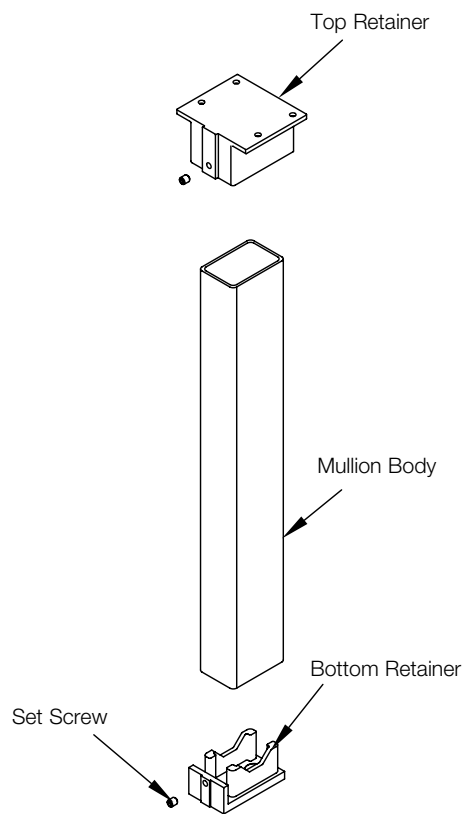


## mullions

### M200(F) removable mullion

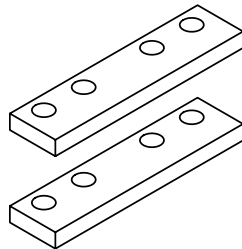
M200(F) steel mullions are for use with 1800(F) Series exit devices. Mullions may be field cut to fit opening. Red primer finish.

- 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'.

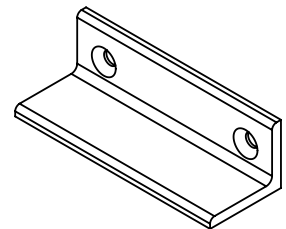


### M200(F) options

- **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

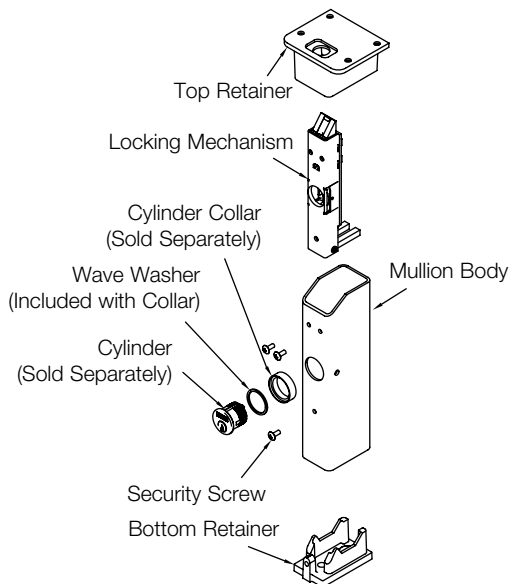
### keyed removable mullion (KRM)

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

### krm features

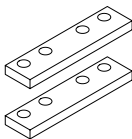
- Easy cylinder installation.
- Mullion automatically relocks when reinstalled without the use of the cylinder key.
- When ordering, add KR prefix to mullion, example: KRM200 and KRM200F.



### krm options

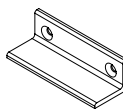
- **M203 Spacer Block**

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 below and to pages 8-9 for details.

### krm collars

| Cylinder Model # | Length | Collar Requirement |
|------------------|--------|--------------------|
| 2153 or 2553     | 1-1/4" | 1765.312           |
| A620 or K660     | 1-1/4" | 1765.406           |
|                  | 1-3/8" | 1765.563           |



## how to order

| 18 | 1 | X   | 0 | Suffix   | -XX  | Outside Trim                              | Finish                          | Other Info  |
|----|---|---|---|--|--|---|---------------------------------|---|
|    |   | <b>Third Digit:</b><br>"0" - Rim Device<br>"1" - SVR Device |   | <b>Trim Suffix:</b><br>No Suffix - Panic label<br><br>"F" - Fire label | <b>Size:</b><br>(DOW=Door Opening Width)<br>"36" - 30" to 36"<br>(76cm to 91cm)<br><br>"42" - 36" to 42"<br>(91cm to 107cm)<br><br>"48" - 42" to 48"<br>(107cm to 122cm) | <b>Trim Model Number</b><br>See pages 6-7 | 626<br>689<br>691<br>693<br>695 | <b>Other Information:</b><br>Door Hand - RHR or LHR (SVR or Lever Escutcheon Trim only).<br>Devices are field reversible.<br><b>SN-134, 1/4-20 Sex Nuts (pack of 4).</b><br><b>SN-104, 10-24 Sex Nuts (pack of 4).</b><br><b>Door Thickness: over 1-3/4" (45mm).</b><br><b>Rod Extensions:</b> (quantity) 2010-2<br>(quantity) 2010-6<br>(quantity) 2010-12<br><br><b>Shim Kits:</b> (quantity) 223<br>(quantity) 224<br><br><b>Optional Strike (page 10)</b><br><b>Removable Mullion:</b> M200 (Panic)<br>M200F (Fire)<br>KRM200 (Panic)<br>KRM200F (Fire)<br><br><b>Factory Keying</b><br><b>Bottom Pullman Latch (SVR Devices)</b> |

**Notes:**

- It is recommended that exit devices and trim for the same opening be ordered together.
- Standard product is for 1-3/4" (45mm) reinforced metal doors.
- Accessories detached from the device and trim should be specified separately.
- 626 finish offered for 440F series trim only.



1800 series | grade 1 exit devices

notes

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## online literature and templates

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