2100 Series
Economy Exit Devices

![Yale logo]

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2100 Economy Exit Devices

With a combination of sturdy construction and innovative security features, it's easy to see why building owners and architects alike prefer the 2100 Series Exit Device for all their economy applications. The quality and certified ANSI/BHMA Grade 1 performance ensures strength and reliability wherever this device is installed. Available in a wide range of both standard and architectural finishes, the 2100 Series is a perfect fit for both back of house and prominent openings in office buildings, retail and a long list of other facilities that require both performance and style.
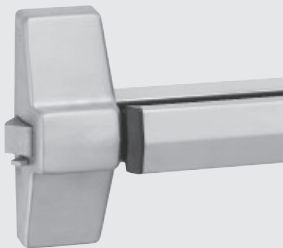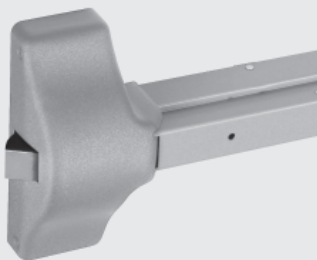
Balancing function with aesthetics in every application, Yale Works for You[SM].

Introduction

Yale® Commercial Solutions offers innovative and reliable products to solve the challenges of commercial, retail, hospitality, assisted living, mixed-use, and multi-family properties. With over 150 years of door hardware experience, Yale's expertise extends beyond products to people - and provides the service and support you expect.

Featuring durable products to meet all your facilities' requirements - and the quality you expect from a leader in the hardware industry. Yale Works for You℠.

Yale Exit Devices			
7000 Series	**6000 Series**	**1800 Series**	**1500 Series**
BHMA CERTIFIED	BHMA CERTIFIED	BHMA CERTIFIED	
• Ideal for facilities that require durability and innovation to meet their security needs • Wide & Narrow Stile Applications • Rim, SquareBolt, Mortise, SVR & CVR • Mechanical & Electro-Mechanical Functions • Available with Motorized Electric Latch Retraction • Constructed with high quality steel and heavy-duty components • 16 Standard finishes including BSP (Black Suede Powder Coat) • UL Rated for Panic & Fire • ANSI/BHMA Certified Grade 1 • 5 Year Warranty and Two-Year Limited Warranty on Electronic Components • UL Rated for Panic & Fire, Windstorm Rated Options (refer to local codes)	• Ideal for facilities that require modern form and full functionality to meet their life safety needs • Wide & Narrow Stile Applications • Rim, Squarebolt, CVR, SVR & Mortise • Mechanical & Electro-Mechanical Functions • Aluminum rail assembly with Architectural Metals • Solid Cast Flush End Cap • ANSI/BHMA Certified Grade 1 • UL Rated for Panic & Fire • 10 Year Warranty	• Ideal for back of the house where function and code compliance are the requirement • Wide Stile Applications • Rim & SVR • Mechanical Functions • ANSI/BHMA Certified Grade 1 • UL Rated for Panic & Fire • Powder-coat Painted Finishes • 1 Year Warranty	• Ideal for renovation projects where historical preservaton is the desired look • Wide Stile Applications • Rim, CVR, SVR & Mortise • ANSI/BHMA Certified Grade 1 • UL Rated for Panic & Fire • Architectural & Painted Finishes • 1 Year Warranty

Benefits & Features

Benefits

- **Tough:** Sturdy construction is ideal for meeting the rigors of demanding industry environments
- **Versatile:** Available in standard painted as well as architectural finishes for both front and back of house applications
- **Economical:** Works for many building projects, regardless of budget
- **Strong & Durable:** ANSI/BHMA Grade 1 Certification ensures long life and reliability
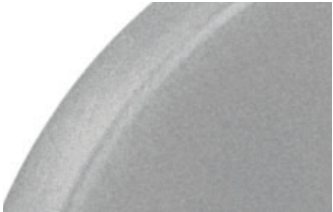
Features

- High-grade steel components offer superior protection against wear & tear
- Available in a variety of functions and finishes for any application
- Offered in Yale's innovative SquareBolt® latchbolt
- ANSI/BHMA Grade 1 certified **BHMA** CERTIFIED™
- UL/cUL listed for panic and fire rated doors
- Windstorm certified devices available
- Three year warranty
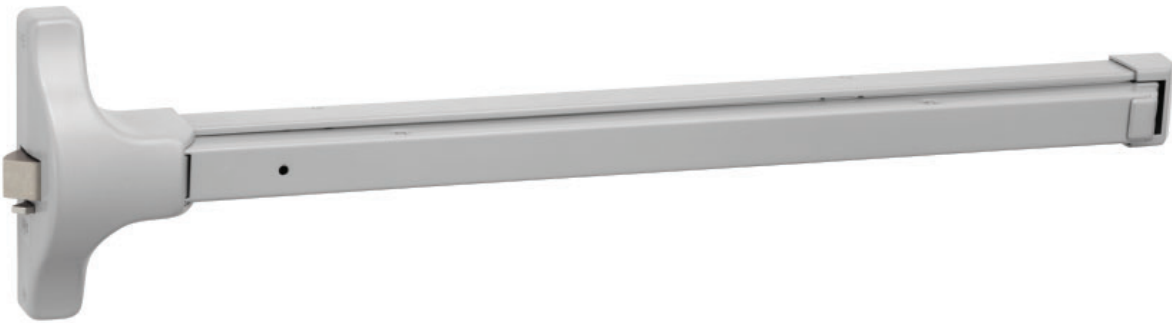
Finishes

ANSI/BHMA Code Finish Description			
613E Dark Oxidized Satin Bronze - equivalent	**630*** Satin Stainless Steel	**689** Aluminum Painted	**691** Light Bronze Painted
693 Black Painted	**695** Dark Bronze Painted	**BSP** Black Suede Powder Coat	**WSP** White Suede Powder Coat

*Finish available with MicroShield® antimicrobial coating, additional finishes by special application. Consult factory for availability.

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 ensure the surfaces will be free of destructive microbes. Yale makes no representations or warranties, express or implied, as to the efficacy of MicroShield.

How to Order

2	1	X	0	Suffix	-XX	Outside Trim	Finish	Other Info
		Third Digit: "0" - Rim Device, Pullman Latch "1" - SVR Device "2" - CVR Device "5" - SquareBolt® Rim Security "6" - CVR Device "7" - SVR Device	**Fourth Digit:** "0" - Standard	No Suffix - Panic label "F" - Fire exit device "WS" - Windstorm Certified Products (see notes 4, 5, 6)	**Size: (DOW=Door Opening Width)** "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	**Trim Model Number** See pages 13-20	613E 630 689 691 693 695 BSP WSP	**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**

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.

Ordering Examples

Exit Device Only
6150D-36 x 626 x RHR x SNB
Exit Device with Trim and Cylinder*
6170F90-9-48 x AU626F x 605 x LHR x 1109 GA 0-bit
Trim Only
MO656F x 630 x RHR x LC
Double Cylinder Exit Device with Trim
6150F-2-36 x AU626F x 630

2100(F) Rim

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)
(4' x 8' single, 8' x 8' pairs, 3 hr.)
ZHEM - 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. Hurricane

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.
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 13-20.
ANSI/BHMA	Certified: A156.3 Type 1, Grade 1
Dogging	Hex key dogging supplied standard on panic devices
Finishes	613E, 630, 689, 691, 693, 695, BSP
Options	Shim kit #223, sex nuts and bolts, MicroShield®
Warranty	3-year limited

2150(F) SquareBolt®

Just as easy to open as traditional latchbolts, the SquareBolt® exit device's unique construction offers innovative protection. The SquareBolt's 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.)
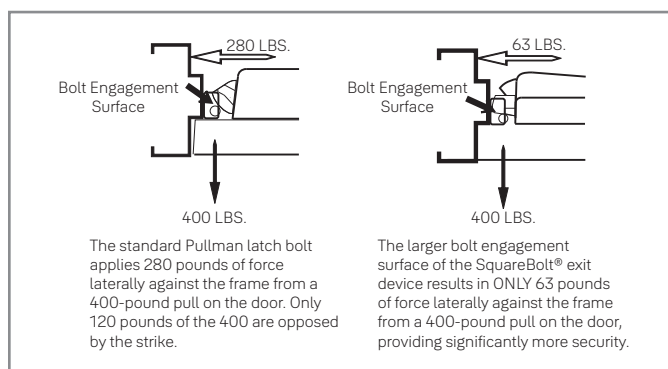
U.S. Patent #: 5,605,362

Features

- SquareBolt security deadbolt 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

The standard Pullman latch bolt applies 280 pounds of force laterally against the frame from a 400-pound pull on the door. Only 120 pounds of the 400 are opposed by the strike.

The larger bolt engagement surface of the SquareBolt® exit device results in ONLY 63 pounds of force laterally against the frame from a 400-pound pull on the door, providing significantly more security.

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	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 13-20.
ANSI/BHMA	Certified: A156.3 Type 1 or 28, Grade 1
Dogging	Hex key dogging supplied standard on panic devices
Finishes	613E, 630, 689, 691, 693, 695, BSP
Options	Shim kit #223, sex nuts and bolts, MicroShield®
Warranty	3-year limited

2110(F) Surface Vertical Rod

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.)

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
Strike	Top: Roller type 791. 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	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 13-20.
ANSI/BHMA	Certified A156.3 Type 2, Grade 1
Dogging	Hex key dogging supplied standard on panic devices
Finishes	613E, 630, 689, 691, 693, 695, BSP
Options	Shim kit #224, sex nuts and bolts, bottom pullman latch (panic only), MicroShield®
Warranty	3-year limited

2170(F) Surface Vertical Rod

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.)

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

Heat-activated door bolt (Popper) - Used when bottom rod is omitted from fire exit devices (LBR).

**2170(F90) LBR
(Less Bottom Rod)**

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
Strike	Top: 726. 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	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 13-20.
ANSI/BHMA	Certified A156.3 Type 2, Grade 1
Dogging	Hex key dogging supplied standard on panic devices
Finishes	613E, 630, 689, 691, 693, 695, BSP
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

2120(F) Concealed Vertical Rod

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.)

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.
Trims	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 13-20.
ANSI/BHMA	Certified A156.3 Grade 1, Type 8, Grade 1
Dogging	Hex key dogging supplied standard on panic devices
Finishes	613E, 630, 689, 691, 693, 695, BSP
Options	Shim kit #223, sex nuts and bolts, bottom pullman latch (panic only), MicroShield®
Warranty	3-year limited

2160(F) Concealed Vertical Rod

Yale

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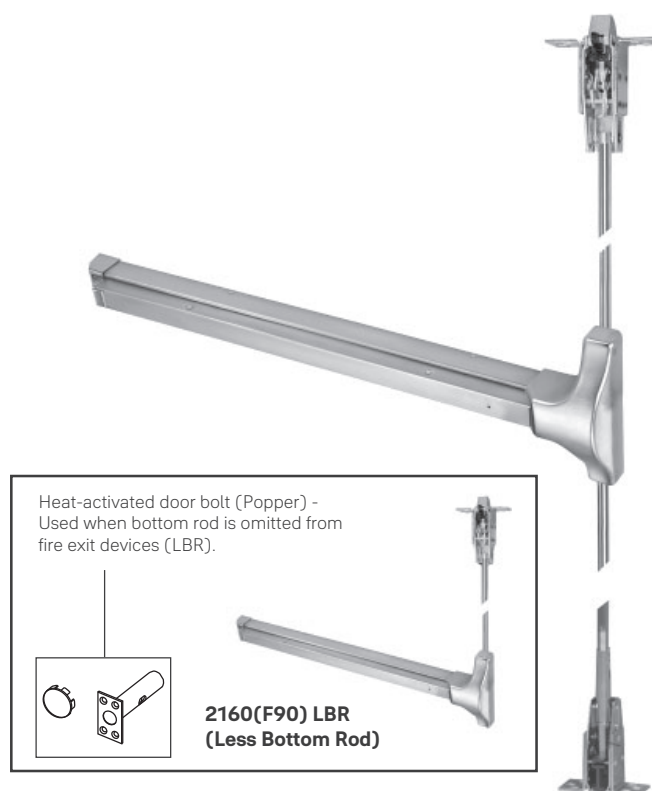
Features

• 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

Heat-activated door bolt (Popper) - Used when bottom rod is omitted from fire exit devices (LBR).

2160(F90) LBR (Less Bottom Rod)

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	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 pages13-20.
ANSI/BHMA	Certified A156.3 Type 7 and 8, Grade 1
Dogging	Hex key dogging supplied standard on panic devices
Finishes	613E, 630, 689, 691, 693, 695, BSP
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

BHMA CERTIFIED

Trim Designs

Escutcheons

480F Series	580F Series	620F Series	630F/660F/670F Series
Projection: 2-13/32" (61mm)	Projection: see levers	Projection: see levers	Projection: 2-1/8" (54mm)

Roses

440F Series	540F Series
Projection: 3-1/2" (89mm)	Projection: 3-1/2" (89mm)

Standard Escutcheon Trim

Arcadia AR ♿	Augusta AU ♿	Carmel CR ♿	Jefferson JN ♿
Projection: 3-1/4" (82mm)	Projection: 2-5/8" (61mm)	Projection: 3-1/8" (79mm)	Projection: 2-9/16" (65mm)
Monroe MO ♿	**Pacific Beach PB** ♿	**Pinehurst PN** ♿	**Virginia VI** ♿
Projection: 3" (76mm)	Projection: 3-5/16" (84mm)	Projection: 3-1/16" (78mm)	Projection: 3-1/8" (79mm)
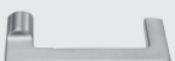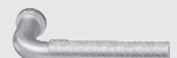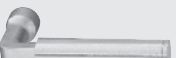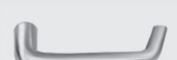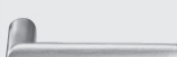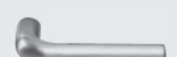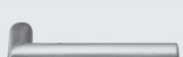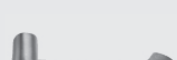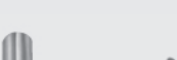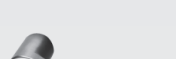
Note: Projection dimensions are provided using the 620F series escutcheon plates.

Trim Designs

Reflections® Levers ♿

Hudson	TB	UB	TC	TD	UC
Projection	3-1/16" (78mm)	3-1/4" (83mm)	3" (76mm)	3-7/16" (87mm)	3-7/16" (87mm)
Spree	RS	RT	RU	RV	
Projection	3-1/8" (79mm)	3-1/8" (79mm)	3-13/32" (87mm)	3" (76mm)	
Seine	TE	TG	TI	TO	TJ	TK
Projection	3" (76mm)	2-13/16" (61mm)	3-3/8" (85mm)	3-1/2" (89mm)	3-1/16" (78mm)	3-1/4" (83mm)
Thames	TM	TN	TP	TR	TS	TQ
Projection	3-1/16" (78mm)	3-1/16" (78mm)	3-5/16" (84mm)	3-1/16" (78mm)	3-1/8" (80mm)	3-1/16" (78mm)
Victoria	TT	TU	TV	TW	UW	TX
Projection	2-11/16" (68mm)	3-1/4" (83mm)	3-1/2" (89mm)	3" (76mm)	3-7/16" (87mm)	3-5/8" (92mm)
Victoria, continued	UX	TY	TZ		
Projection	3-7/16" (87mm)	3-5/16" (84mm)	3-7/16" (87mm)		
Niagara	MA	RA	RB	RC	
Projection	2-13/16" (71mm)	3-11/16" (94mm)	2-13/16" (71mm)	2-13/16" (71mm)	

Note: Projection dimensions are provided using the 620F Series escutcheon plates.

Note: The following Reflections levers are not available in 629 or 630 finish: Victoria TT, TU, TV, TW, TX, TY, UW, UX, TZ; Seine TG, TJ, TK, TO, TE, TI. Please consider the 618 or 619 finish as an alternative. Reflections levers are not available with knurling option.

Trim Designs

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/cast escutcheon and free-wheeling trim for ideal protection.
- 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).
- Cylinders not included. See page 25-27 for cylinder options.
- Available with AR, AU, CR, JN, MO, PB, PN, VI, HA lever designs. See page 13.
  - Finishes: 613E, 626, 630, 693, BSP
- Available with Reflections® lever designs. See page 14.
  - Finishes: 613E, 626, 630, BSP
- Trim ordering example: AU626F x 626 x RHR.
- 5-year limited warranty.

BHMA CERTIFIED

Application	Cylinder	Classroom/ Storeroom Cylinder Controls Thumbturn	Exit Only Blank Plate	Nightlatch Access by Key	Classroom Cylinder Controls Lever	Storeroom Cylinder Controls Lever	Nightlatch Cylinder by Lever	Passage	Dummy Trim Free-Wheeling	Dummy Rigid Lever
2100(F) 2150(F) 2110(F) 2120(F) 2160(F) 2170(F)	Rim	603F[1]	620F	621F[2]	626F	626F[1]	627F[2]	628F	628F[1]	629F
ANSI		11/12	01	03	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.
For 626 & 630 finishes the escutcheon and standard levers are plated to simulate stainless steel.
Optional door thickness available up to 4-1/2", specify on order.

Trim Designs

630F Series Wide Pull/Thumbpiece Trim

BHMA CERTIFIED

- Certified ANSI/BHMA A156.3, Grade 1.
- Trim through-bolts to exit device for strength.
- Beveled sides improve attack resistance.
- 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 pages 25-27 for cylinder options.
- Finishes: 613E, 626, 630, 693, BSP
- Trim ordering example: 630F x 630
- 5-year limited warranty.

Applications	Cylinder	Exit Only Blank Plate	Nightlatch Access by Key	Nightlatch Cylinder by Pull	Classroom Cylinder Controls T-Piece	Storeroom Cylinder Controls T-Piece	Dummy Trim Pull Plate	Passage Active T-Piece
2100(F) 2150(F) 2110(F) 2120(F) 2160(F) 2170(F)	Rim	630F	631F[2]	632F[2]	633F	633F[1]	634F	635F
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.

Trim Designs

Yale

440F Series Rose Trim
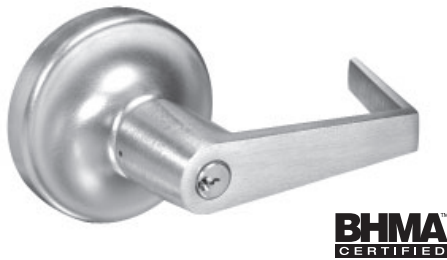
BHMA CERTIFIED

- Certified ANSI/BHMA A156.3, Grade 1.
- 440F rose trim for stock doors.
- 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 pages 25-27 for cylinder options.
- Finishes: 613E, 626, 689, 691, 693, 695, BSP
- "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.
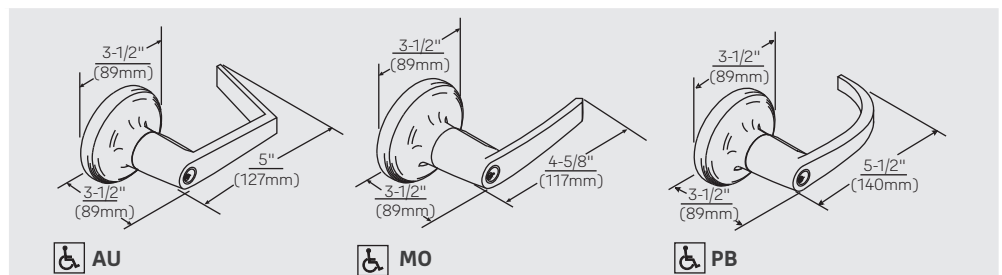
Applications	Nightlatch Access by Key	Classroom Cylinder Controls Lever	Dummy Trim Free Wheeling Lever	Passage Lever	Dummy Trim Rigid Lever
2100(F), 2150(F), 2110(F), 2120(F), 2160(F), 2170(F)	441F*	446F	448F	448F	449F
ANSI	03	08	02	14	02

* Not recommended for use with vertical rod exit devices.

Trim Designs
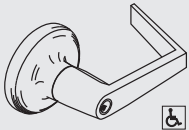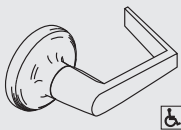
540F Series Rose Trim

- Certified ANSI/BHMA A156.3, Grade 1.
- 540F rose trim for stock doors.
- Trim through-bolts to exit device for strength.
- 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.
- Accepts cylindrical type cylinders. Cylinders included, see pages 25-27 for cylinder options.
- Please specify when ordering 1210 LFIC prep.
- Finishes: 605, 606, 613E, 625, 626, BSP.
- 3-year limited warranty.

"B" trim prefix	Lever trim accepting all small format interchangeable cores. 6- or 7-pin (Example: B-AU546F)
"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-AU546F)
"S" trim prefix	Lever trim accepting Schlage® standard cylinders. 6-pin only. (Example: S-AU546F)
"SI" trim prefix	Lever trim accepting Schlage® large format interchangeable cores. 6-pin only. (Example: SI-AU546F)

Applications	Nightlatch Access by Key	Classroom Cylinder Controls Lever	Passage Lever	Dummy Trim Free-Wheeling Lever	Dummy Trim Rigid Lever
6100ED(F), 6150ED(F), 6160ED(F), 6170ED(F)	541F*	546F	548F	548F	549F
ANSI	03	08	14	02	02

* Not recommended for use with vertical rod exit devices.

Trim Designs

580F Series Rose Trim With Escutcheon Plate

- 580F rose trim with escutcheon plate for stock doors.
- 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 pages 25-27.
- Finishes - lever and rose only: 613E, 626, 689, BSP.
- Finishes - escutcheon only: 689.
- "B" trim prefix - Lever trim accepting all small format interchangeable cores. 6- or 7-pin (Example: B-AU586F)
- "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-AU586F)
- "S" trim prefix - Lever trim accepting Schlage® standard cylinders. 6-pin only. (Example: S-AU586F)
- "SI" trim prefix - Lever trim accepting Schlage® large format interchangeable cores. 6-pin only. (Example: SI-AU586F)
- 3-year limited warranty.

	AU	MO	PB
	3-1/2", 2-9/16", 3", 5"	3-1/2", 2-13/16", 4-15/16"	3-1/2", 2-9/16", 3-1/2", 5-1/2"
	♿ AU	♿ MO	♿ PB

Applications	Nightlatch Access by Key	Classroom Cylinder Controls Lever	Dummy Trim Free Wheeling Lever	Passage Lever	Dummy Trim Rigid Lever
2100(F), 2150(F), 2110(F), 2120(F), 2160(F), 2170(F)	581F*	586F	588F	588F	589F
ANSI	03	08	02	14	02

* Not recommended for use with vertical rod exit devices.
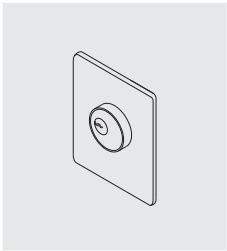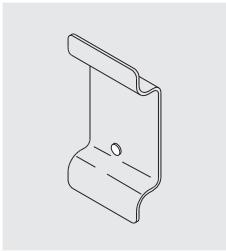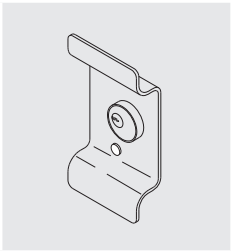
Trim Designs

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 pages 25-27.
- 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

Applications	Cylinder	Nightlatch Access by Key	Dummy Trim Pull Plate	Nightlatch Cylinder by Pull
2100(F), 2150(F)	Rim	213F	214F	217F
ANSI		03	02	03

Not recommended for surface or concealed vertical rod devices.

Functions

SquareBolt® (Type 1 or 28) 2150(F)	Rim (Type 1) 2100(F)	Surface Vertical Rod (Type 2) 2110(F) 2170(F90)	Concealed Vertical Rod (Type 7 & 8) 2120(F) 2160(F90)	Function Description	ANSI Function No.	Trim Model Number
				Exit Only, No Trim/Exit Only, Blank Plate	01	620F 630F
				Pull to Open (Dummy Trim)	02	214F 589F[1,2] 448F[1,2] 624F 629F[2] 449F[1,2] 625F 634F[2] 588F[1,2] 628F[1,2]
		[3]	[3]	Key Retracts Latchbolts (NL)	03	121NL 581F[2] 213F 621F 631F 217F 623F 632F[2] 441F[2] 627F[2]
				Entrance by Thumbpiece (Key Locks/ Unlocks Thumbpiece)	05	633F
				Key Unlocks Thumbpiece (Key Removable When Locked)	06	633F[1]
				Entrance by Lever (Key Locks/ Unlocks Lever)	08	446F[2] 586F[2] 626F[2]
				Key Unlocks Lever (Key Removable When Locked)	09	626F[1,2]
				Cylinder Controls Thumbturn	11	603F
				Key & Thumbturn (Key Removable When Locked)	12	603F
				Lever Always Active (Passage)	14	448F[2] 588F[2] 628F[2]
				Thumbpiece Always Active (Passage)	15	635F

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 13-20.
[1] Trims require an easy field change to adapt them for the charted function. [2] ADA compliant trim. [3] Application not recommended

Applications

Single Door	UL Listing	Maximum Opening	Application	
SquareBolt®				
2150	Panic	4' x *	Surface applied; single-point latching.	
2150F	3 Hr.	4' x 8'		
Rim				
2100	Panic	4' x *	Surface applied; single-point latching.	
2100F	3 Hr.	4' x 8'		
2100WS	Panic	3' x 7'	Surface applied; single-point latching. Used as components in swinging door windstorm-rated assemblies (refer to local codes).	
2100FWS	3 Hr.	3' x 7'		
Surface Vertical Rod				
2110	Panic	4' x 10'	Surface applied; two-point latching.	
2170	Panic	4' x 10'		
2170 x LBR	Panic	4' x 10'	Surface applied; one-point latching.	
Concealed Vertical Rod				
2120	Panic	4' x 10'	Rods concealed in door; two-point latching	
2160	Panic	4' x 10'		
2160 x LBR	Panic	4' x 10'	Rods concealed in door; one-point latching	

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

Pair of Doors with Removable Mullion	UL Listing	Maximum Opening	Application	
SquareBolt® x SquareBolt®				
2150 x 2150 x M200	Panic	8' x 10'	Two independent active doors with removable mullion.	
2150F x 2150F x M200F	3 Hr.	8' x 8'		
Rim x Rim				
2100 x 2100 x M200	Panic	8' x 10'	Two independent active doors with removable mullion.	
2100F x 2100F x M200F	3 Hr.	8' x 8'		

Pair of Doors with Keyed Removable Mullion	UL Listing	Maximum Opening	Application	
SquareBolt® x SquareBolt®				
2150 x 2150 x KRM200	Panic	8' x 10'	Two independent active doors with removable mullion.	
2150F x 2150F x KRM200F	3 Hr.	8' x 8'		
Rim x Rim				
2100 x 2100 x KRM200	Panic	8' x 10'	Two independent active doors with removable mullion.	
2100F x 2100F x KRM200F	3 Hr.	8' x 8'		

Applications

Pair of Doors	UL Listing	Maximum Opening	Application	
SquareBolt® x Surface Vertical Rod				
2150 x 2110	Panic	8' x 10'	Two independent doors with two-point latching, swinging in the same direction.	
2150 x 2170	Panic	8' x 10'	Two independent doors with one- or two-point latching, swinging in the same direction.	
Rim x Surface Vertical Rod				
2100 x 2110	Panic	8' x 10'	Two independent doors with two-point latching, swinging in the same direction.	
2100 x 2170	Panic	8' x 10'	Two independent doors with one- or two-point latching, swinging in the same direction.	
Surface Vertical Rod				
2110 x 2110	Panic	8' x 10'	Two independent doors with two-point latching, swinging in the same direction.	
2110F x 2110F	3 Hr.	8' x 8'		
2170 x 2170	Panic	8' x 10'	Two independent doors with one- or two-point latching, swinging in the same direction.	
2170F90 x 2170F90	1-1/2 Hr.	8' x 10'		
2170F x 2170F	3 Hr.	8' x 8'		
Surface Vertical Rod (Double Egress)				
2110 x 2110	Panic	8' x 10'	Two independent doors with two-point latching, swinging in opposite directions. Overlapping astragal required for 3-hour openings.	
2110F x 2110F	3 Hr.	8' x 8'		
2170 x 2170	Panic	8' x 10'	Two independent doors with one- or two-point latching, swinging in opposite directions. Overlapping astragal not required.	
2170F90 x 2170F90	1-1/2 Hr.	8' x 10'		
2170F x 2170F	3 Hr.	8' x 8'		
Concealed Vertical Rod				
2120 x 2120	Panic	8' x 10'	Two independent metal doors with two-point latching, swinging in the same direction.	
2120F x 2120F	3 Hr.	8' x 8'		
2160 x 2160	Panic	8' x 10'	Two independent metal or wood doors with one- or two-point latching, swinging in the same direction.	
2160F90 x 2160F90	1-1/2 Hr.	8' x 10'		
2160F x 2160F	3 Hr.	8' x 8'		
Concealed Vertical Rod (Double Egress)				
2120 x 2120	Panic	8' x 10'	Two independent metal doors with two-point latching, swinging in opposite directions. Overlapping astragal required for 3-hour openings.	
2120F x 2120F	3 Hr.	8' x 8'		
2160 x 2160	Panic	8' x 10'	Two independent metal or wood doors with one- or two-point latching, swinging in opposite directions. Overlapping astragal not required.	
2160F90 x 2160F90	1-1/2 Hr.	8' x 10'		
2160F x 2160F	3 Hr.	8' x 8'		

Electrified Options

Standalone 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.

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".

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 25-27 for cylinder information.

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)
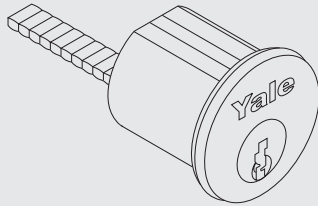- Accepts standard mortise cylinders (not included, must be specified)
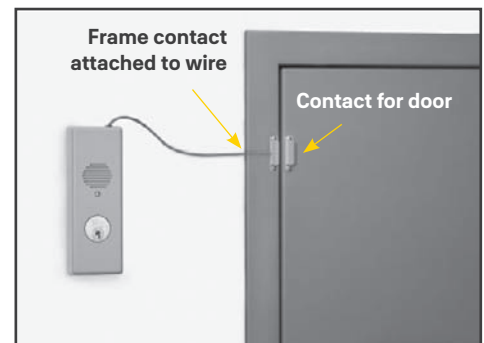
Note: Actual wire length is 6 feet.

Cylinders

Rim

Model #	Description	Pins	Length	Collar Requirements*				
				620F	630F	210F	121NL	SDA16 Outside
1109	Standard Fixed Core	6	1-1/4"	No Collar	No Collar	1765.250	1765.250	1765.250
1109	Standard Fixed Core	7	1-7/16"	KP4	KP4			
1709	CMK	6	1-15/16"	1765.250	1765.250	1765.500		
1709	CMK	7	1-5/8"		1765.406			
1193	LFIC Complete	6	1-7/16"		1765.250	1765.469		
1193	LFIC Complete	7	1-5/8"	1765.344	1765.406	1765.656		
5109	Security Fixed Core	6	1-9/16"	No Collar	1765.250	1765.250		
5109	Security Fixed Core	7	1-7/16"					
U5109	High Security Fixed Core	6	1"		No Collar	No Collar	No Collar	No Collar
U5109	High Security Fixed Core	7	1"					
5193	Security LFIC Complete	6	1-7/16"	1765.250	1765.250	1765.469	1765.250	1765.250
5193	Security LFIC Complete	7	1-5/8"	1765.344	1765.406	1765.656		
K300	Yale® KeyMark® Standard Fixed Core	6	1-1/8"	KP4	1765.250	1765.406		
K300	Yale KeyMark Standard Fixed Core	7						
K840/ K880	Yale KeyMark LFIC Complete / Housing Only	6	1-7/16"	1765.406	1765.500	1765.719		
K840/ K880	Yale KeyMark LFIC Complete / Housing Only	7	1-5/8"	1765.563	1765.719	1765.937		
K640/ K680	Yale KeyMark SFIC Complete / Housing Only	6	1-1/4"	KP4	1765.250	1765.406		
K640/ K680	Yale KeyMark SFIC Complete / Housing Only	6 or 7	1-3/8"	1765.187	1765.406	1765.563		
A640/ K680	Best® Keyway SFIC Complete / Housing Only	6	1-1/4"	KP4	1765.250	1765.406		
A640/ K680	Best® Keyway SFIC Complete / Housing Only	6 or 7	1-3/8"	1765.187	1765.406	1765.563		
2109	Schlage® "C" Keyway Fixed Core Available 0-bitted or keyed random.	6	1-1/8"	No Collar	No Collar	1765.250		

*Based on 1-3/4" door thickness. Collar length required must be specified for cylinders and/or housings ordered separately.
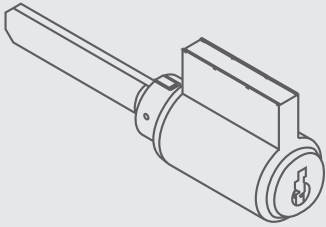LFIC = Large Format Interchangeable Core
SFIC = Small Format Interchangeable Core

Cylinders

Component

The following chart details component cylinders for use with 440F and 540F series trim.

Model #	Description	Pins
1802	Standard Lever Fixed Core	6
1802A*	Standard Lever Fixed Core	7
5802	Security Lever Fixed Core	6
5802A*	Security Lever Fixed Core	7
1210	LFIC Only	6
1220*	LFIC Only	7
5210	Security LFIC Only	6
5220*	Security LFIC Only	7
K402*	Yale® KeyMark® Lever Fixed Core	6 or 7
K800*	Yale KeyMark LFIC Only	6 or 7
K600	Yale KeyMark SFIC Only	6 or 7
A600	Best® Keyway SFIC Only	6 or 7
2802	Schlage® "C" Keyway Fixed Core. Available 0-bitted or keyed random.	6
3804[1]	Corbin Russwin "L4", Corbin "60", Russwin "D1", Sargent® "LA" or Schlage® "E" Keyway Fixed Core. Specify keyway. Available keyed random	6

*7-pin not available for 440F series trim. If 7-pin required, refer to 540F series located in 7000 series exit device catalog.
[1]440 series trim requires the 108S kit. These cylinders are not ANSI/BHMA certified.

121NL Cylinder Only
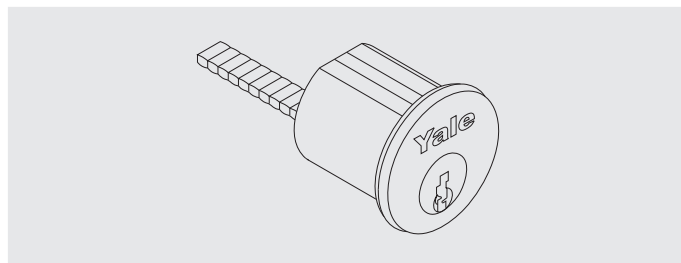
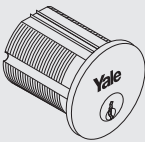| Function Description	Nightlatch Access by Key
Model No.	121NL
ANSI	03

- 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 pages 25-27 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

Mortise

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

Model #	Description	Pins	Length	Cylinder Dogging** Cam	Cylinder Dogging** Collar	2116 Alarm* Cam	2116 Alarm* Collar	SDA16 Inside Cam	SDA16 Inside Collar	KRM200 Cam	KRM200 Collar
2153	Standard Fixed Core	6	1-1/8"	1161E	NA	2160	No Collar	2160	No Collar	2160	1765.312
2153	Standard Fixed Core	7	1-1/4"	1161E	NA	2160	No Collar	2160	No Collar	2160	1765.500
2196	LFIC Complete	6	1-1/2"	1161E	599.925	2160	1765.250	2160	KP4	2160	1765.750
2197	LFIC Complete	7	1-11/16"	1161E	599.1.04	2160	1765.500	2160	1765.250	2160	1765.844
5153	Security Fixed Core	6	1-1/8"	1161E	NA	2160	No Collar	2160	No Collar	2160	1765.312
5153	Security Fixed Core	7	1-1/4"	1161E	NA	2160	No Collar	2160	No Collar	2160	1765.500
U5153	High Security Fixed Core	6	1-1/8"	1161E	NA	2160	NA	2160	NA	2160	NA
U5153	High Security Fixed Core	7	1-1/4"	1161E	NA	2160	NA	2160	NA	2160	NA
5196	Security LFIC Complete	6	1-1/2"	1161E	599.925	2160	1765.250	2160	KP4	2160	1765.750
5197	Security LFIC Complete	7	1-11/16"	1161E	599.1.04	2160	1765.500	2160	1765.250	2160	1765.844
K100	Yale® KeyMark® Standard Fixed Core	6 or 7	1-1/8"	Special	NA	KC1	No Collar	KC1	No Collar	KC1	1765.312
K820/K860	Yale KeyMark LFIC Complete / Housing Only	6	1-1/2"	Special	599.925	KC1	1765.250	KC1	KP4	KC1	1765.750
K820/K860	Yale KeyMark LFIC Complete / Housing Only	7	1-11/16"	Special	599.1.04	KC1	1765.500	KC1	1765.250	KC1	1765.000
K620/K660	Yale KeyMark SFIC Complete / Housing Only	6	1-1/4"	Special	599.700	KC1	No Collar	KC1	No Collar	KC1	1765.500
K620/K660	Yale KeyMark SFIC Complete / Housing Only	6 or 7	1-3/8"	Special	599.850	KC1	1765.250	KC1	No Collar	KC1	1765.563
A620/K660	Best® Keyway SFIC Complete / Housing Only	6	1-1/4"	Special	599.700	KC1	No Collar	KC1	No Collar	KC1	1765.500
A620/K660	Best® Keyway SFIC Complete / Housing Only	6 or 7	1-3/8"	Special	599.850	KC1	No Collar	KC1	No Collar	KC1	1765.563
2553	Schlage® "C" Keyway Fixed Core. Available 0-bitted or keyed random.	6	1-1/8"	1161E	NA	2160	No Collar	2160	No Collar	2160	1765.312

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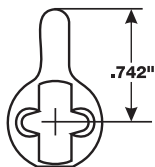LFIC = Large Format Interchangeable Core. SFIC = Small Format Interchangeable Core
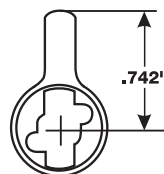NA = Application Not Available
*2116 door alarm kit discontinued September 1, 2012.
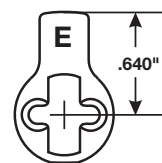**Cylinder dogging discontinued August, 2013

Cams

2160 — .742"

KC1 — .742"

1161E — E — .640"

Collars & Tailpieces

![Yale logo]

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

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"	620F and 630F Series Trim	81-9500-1665-000
2-1/2" - 3-1/2"	620F and 630F Series Trim	81-9500-1635-000
3-1/2" - 4-1/2"	620F and 630F Series Trim	81-9500-1636-000

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.
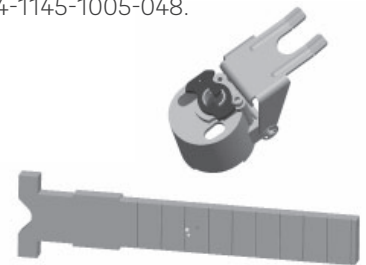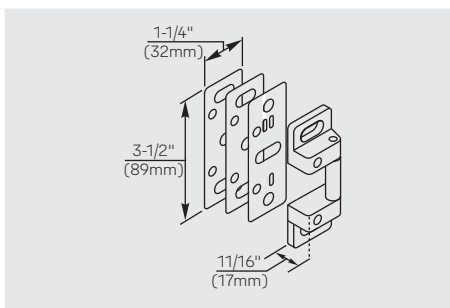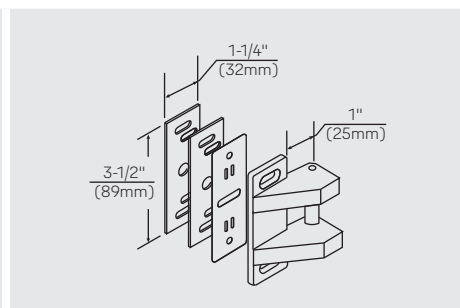
Strikes

Rim Devices
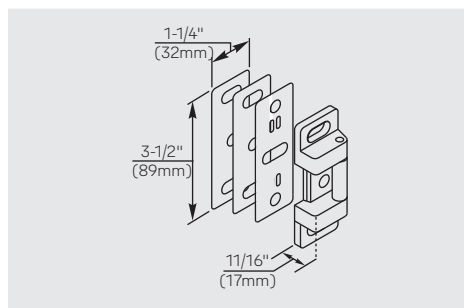
757F
Standard strike for 2100(F) and 2150(F) devices. Supplied with #10-24 x 3/4" machine screws, two shims (each 1/16" thick), and one locking plate.

757FWS
Standard strike for 2150(F)WS and 2250M(F)WS devices. Supplied with 2 each #10-24 x 1-1/4" and 2 each #10-24 x 3/4" machine screws, two shims (each 1/16" thick), one locking plate and one interlocking bracket (not shown) with 4 each #10-24 x 3/4" machine screws.
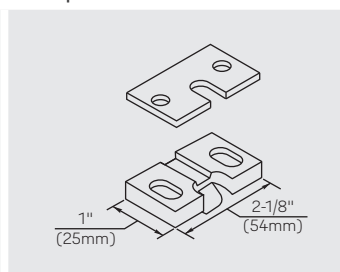
793
Optional strike for double door applications without a mullion. Supplied with #10-24 x 3/4" machine screws, two shims (each 1/16" thick), and one locking plate. Panic only.
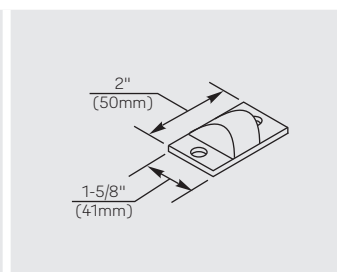
Vertical Rod Devices - Top Strikes
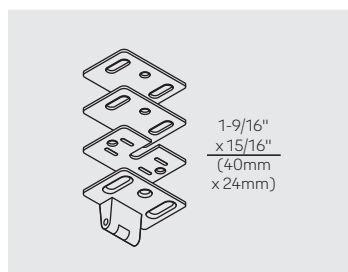
791
Standard top strike for 7110(F), 7120(F), 7210, 7220, 7210M(F), 7220M(F) series devices. Supplied with #10-24 x 3/4" machine screws, two shims (each 1/16" thick), and one locking plate.
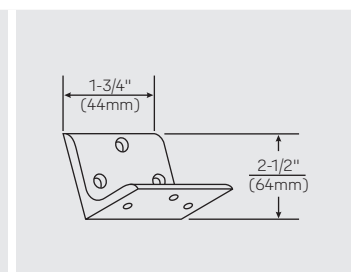
726
Standard top strike for 7170(F) series devices. Supplied with #12-24 x 11/16" machine screws and #12 x 1-1/4" sheet metal screws, and one shim (1/16" thick).
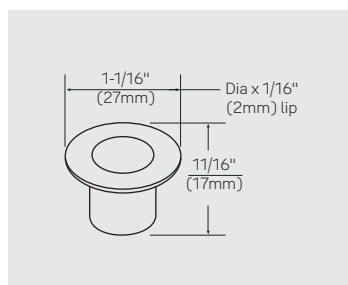
761
Standard top strike for 7160(F) series devices. Supplied with #10-32 x 3/8" machine screws and #10 x 1" sheet metal screws.
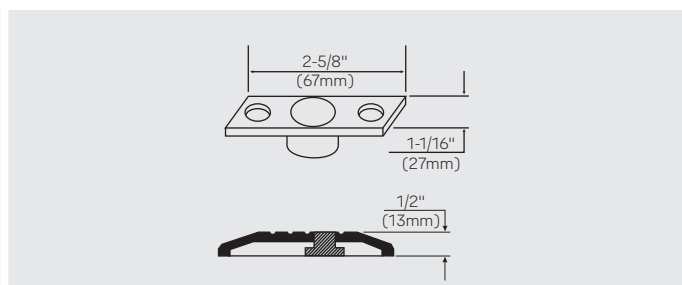
797
Optional bracket for mounting 791 top strike in flush transom opening. Supplied with 1/4-20 machine screws; SN-134 sex nuts, optional.
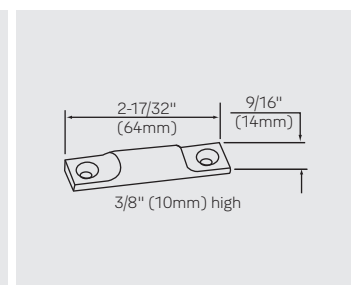
Vertical Rod Devices - Bottom Strikes

790
Standard bottom strike for 7110(F), 7120(F), 7160(F), 7170(F), 7210, 7220, 7210M(F), 7220M(F) series 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 & Options

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:

Model Number	Length
2010-2	2" (51mm)
2010-6	6" (153mm)
2010-12	12" (305mm)
2010-24*	24" (610mm)

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

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.

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 29.
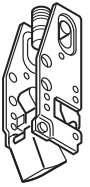
Wide Stile Cover

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

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

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.
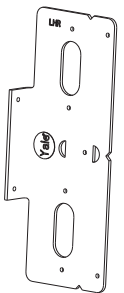
Schlage® Cam Assembly

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.
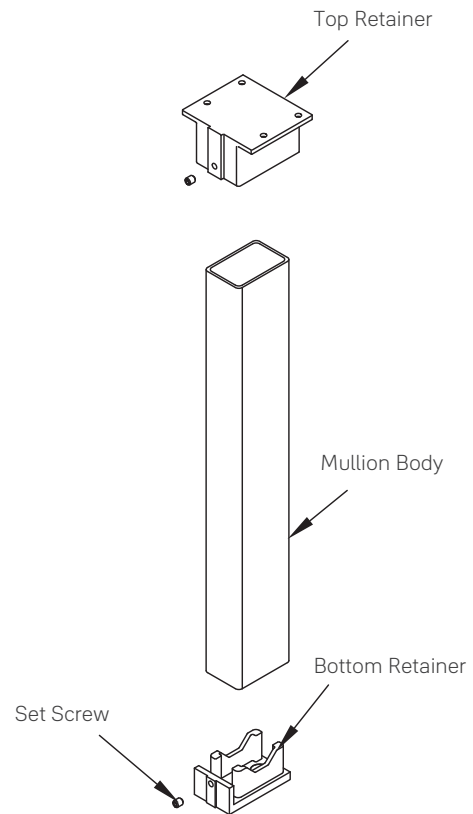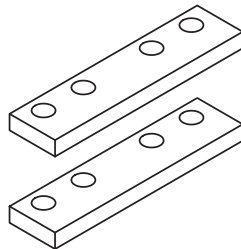
Mullions

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'.

Top Retainer
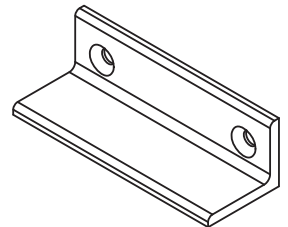
Mullion Body

Bottom Retainer

Set Screw

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.
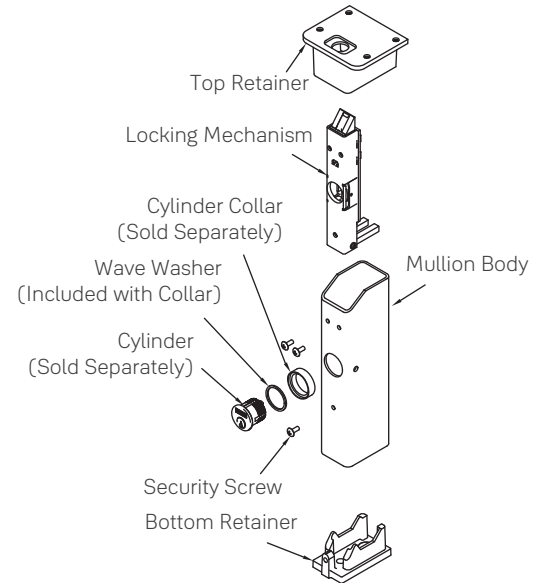
Mullions

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'.
- 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.

Top Retainer
Locking Mechanism
Cylinder Collar (Sold Separately)
Wave Washer (Included with Collar)
Mullion Body
Cylinder (Sold Separately)
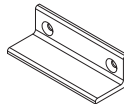Security Screw
Bottom Retainer

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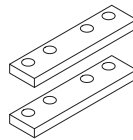
- **M204 Angle Bracket**
  Recommended for any header configuration with less than 3" (76mm) of mounting surface.
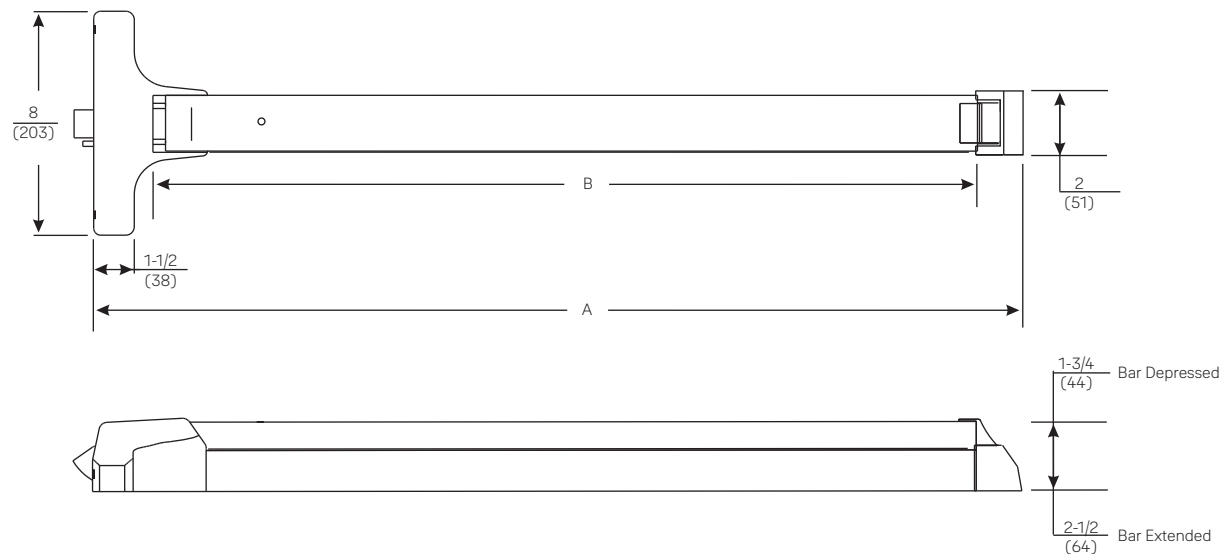

KRM Cylinders

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 27 for details.
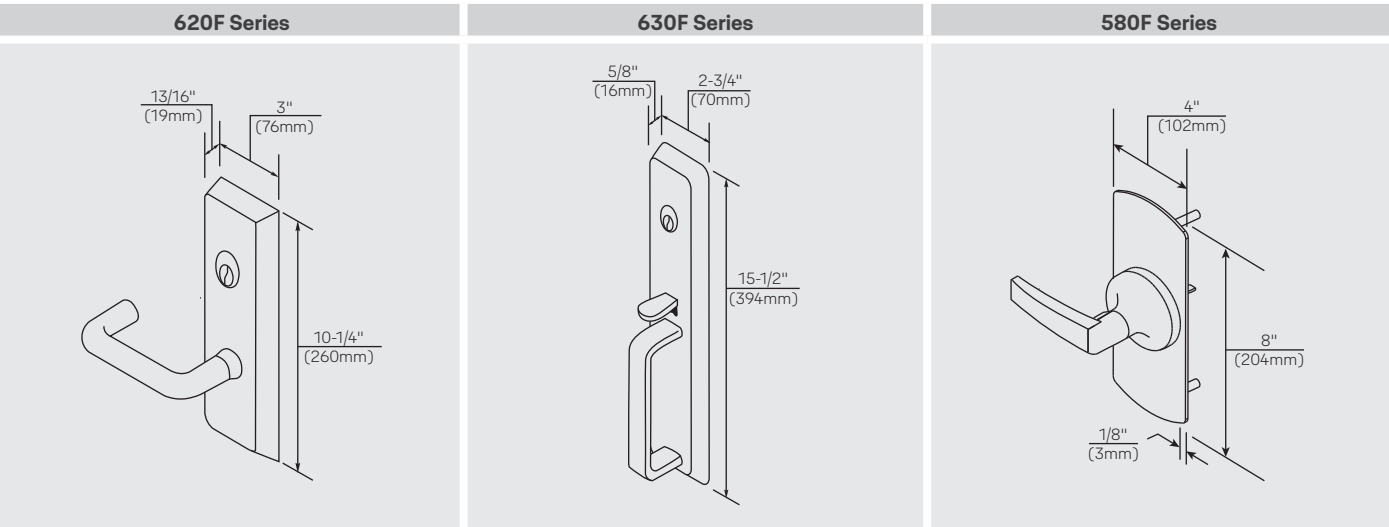
Dimensions

Device

Dimensions are in: inches (mm)

Device Size	"A"	"B"
36"	32-3/8" (82cm)	27" (69cm)
42"	38-3/8" (98cm)	33" (84cm)
48"	44-3/8" (113cm)	39" (99cm)

Trim Dimensions

620F Series	630F Series	580F Series

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 for ideal protection. 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.

Technical Specifications & Listings

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 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

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

Hurricane

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.

Yale

Trusted every day

Contact Us

MicroShield®

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

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

agion
Nature's antimicrobial

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

THE YALE BRAND, with its unparalleled global reach and range of products, reassures more people in more countries than any other consumer locking solution.

THE ASSA ABLOY GROUP is the world´s leading manufacturer and supplier of locking solutions, dedicated to satisfying end-user needs for security, safety and convenience.