# Exit Devices



Every Hager exit device is designed and engineered to assure you and your customers years and years of superior performance in a variety of commercial applications. Hager exit devices use fewer moving parts, are constructed with high quality materials and are backed by industry leading warranties.

All Hager exit devices meet or exceed accepted U.S. domestic and international standards. All are UL listed for panic or fire-rated hardware and comply with ANSI A117.1 for accessible buildings and facilities. Many models are also certified for Hurricane Resistant applications.

Hager exit devices were designed with ease of installation in mind. All are non-handed and packaged for convenience and versatility with thru-bolts, slotted strikes, and both wood and machine screws in every box. Minimal door prep is needed with Hager exit device escutcheon trim with the locking mechanism built inside.

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# 4500 Series



**HEAVY DUTY COMMERCIAL APPLICATION** 

Hager 4500 Series Exit Devices are ideal for use in heavy duty commercial applications including office buildings, medical facilities, schools, and hospitality structures. The Hager 4500 Series is designed and engineered to provide a lifetime of superior performance on doors in heavy duty commercial applications. Properly applied and maintained Hager 4500 Series Exit Devices and Trim are backed by a lifetime warranty, providing peace of mind from distributor to building owner. Go to www.hagerco.com for specific warranty conditions.

Hager 4500 Series Exit Devices are BHMA certified Grade 1 and meet Life Safety codes and Fire Safety requirements. The 4500 Series Rim and Surface Vertical Rod devices meet ANSI requirements to be listed as Severe Windstorm Components and are approved for High Velocity Hurricane Zone areas.

Extruded aluminum construction, stainless steel push bar cover, die cast caps and covers, and dead locking stainless steel Pullman type latchbolts provide premium security and performance at value pricing.





### **4500 SERIES - COMPLIANCE & CERTIFICATIONS**

### **4500 SERIES DEVICES**

BHMA Certified ANSI A156.3 Grade 1

BHMA

UL305 Listed for Panic Hardware



UL10C Positive Pressure Rated



UL10B Neutral Pressure Rated



Complies with ANSI A117.1 for Accessible Buildings and Facilities



ANSI A 250.13 Severe Windstorm Resistant Component

Miami Dade NOA #11-1219.14

RIM	SVR	LBR	CVR	CLB	MOR
YES	YES	YES	YES	YES	YES
YES	YES	YES	YES	YES	YES
YES	YES	YES	YES	YES	YES
YES	YES	YES	YES	YES	YES
YES	YES	YES	YES	YES	YES
YES	YES				
YES	YES				

### **4500 SERIES FIRE-RATED DEVICES**

UL/cUL Listed for "A" Label Door Up to and Including...

Rim with Fire-rated Removable Mullion 4900UF UL/cUL Listed and Warnock Hersey Listed for "A" Label Door Up to and Including...



VR X VR SAME DIRECTION\*
UL/cUL Listed for "A" Label Door Up to and Including...

VR X VR Double Egress UL/cUL Listed for "A" Label Door Up to and Including...

RIM F	SVR F	LBR F	CVR F	CLB F	MOR F
3 HR 4'X8'	3 HR 4'X10'		3 HR 4'X10'		3 HR 4'X8'
3 HR 8'X8'					
	90 MIN 8'X10'	90 MIN 8'X8'	90 MIN 8'X10'	90 MIN 8'X8'	
	3 HR 8'X10'	3 HR 8'X8'	3 HR 8'X10'	3 HR 8'X8'	

<sup>\*</sup>Currently, no door manufacturer offers a listing over 90 minutes with doors swinging same direction. Consult wood door manufacturers for current UL listings.





### **4500 SERIES - GENERAL INFORMATION**

#### **Installation Made Easy**

For the convenience of our customers, Hager Companies introduced several key features to the exit device market:

- Thru-bolts are included with every model. Wood and machine screws are also provided standard in every package.
- Slotted strikes speed up installation, allowing the installer to make easy adjustments to align the latch to the strike.
- Non-handed device offers added versatility and means less inventory.
- Escutcheon trim is surface mounted with the locking mechanism built inside, reducing door preparation and installation time by requiring fewer holes in the door.

#### Shim Kits

Shim kits are available for devices on doors with glass bead kits or other interfacing moldings. Each kit contains two 1/8" (3.2 mm) shims and the appropriate longer fasteners.

### **Dogging**

Cylinder dogging or less dogging are available to replace the standard hex key dogging on panic exit devices. For cylinder dogging, specify CD on order or purchase 4926 for retrofit applications. Unit requires 1-1/8" mortise cylinder (part number 3902) with standard cam. For less dogging, specify LD on order.

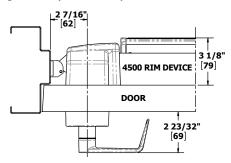
#### Sizina

The exit device is cut for 36" (914 mm) and 48" (1219 mm) wide doors. For other door widths, cut exit device to appropriate length. Recommended overall length of exit device is equal to the door width minus four inches. The surface vertical rod devices are supplied for an 84" (2134 mm) opening standard, but can be ordered for a 96" (2438 mm) opening. Extension rods are available to accommodate openings taller than 96" (2438 mm) and up to 120" (3048 mm).

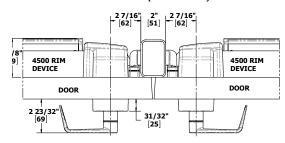
Trim Functions	Part Number	Function Description	ANSI Number
Blank Escutcheon	45BE, 45MB	Always operable (Passage)	14
Cylinder Escutcheon	45CE, 45MC	Key locks or unlocks lever	08
Dummy	45DT, 45MD 45PD	Pull when device is dogged down	02
Night Latch	45NL, 45MN 45PN	Key retracts latchbolt	03
Cylinder Thumbpiece	45PT	Key locks or unlocks thumbpiece	05
Electrified Trim	45ET EL 45ET EU	Fail safe Fail secure	E05 E06

### **Applications**

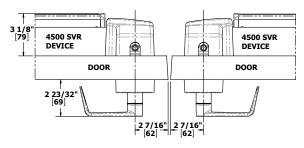
Single Door (Rim Device)



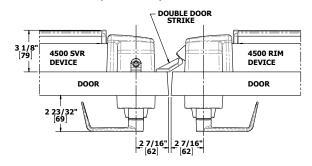
Double Door with Mullion (Rim x Rim)



### Double Door (SVR x SVR)



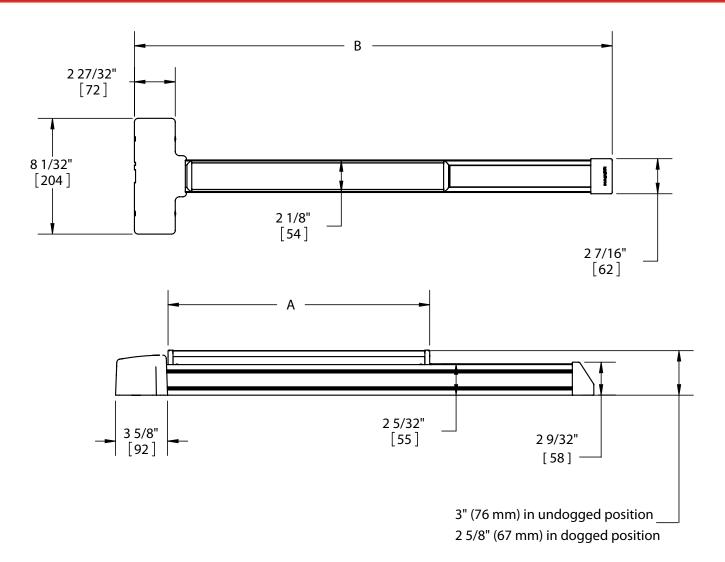
#### Double Door (SVR x Rim)







### **4500 SERIES - DEVICE PROFILES**

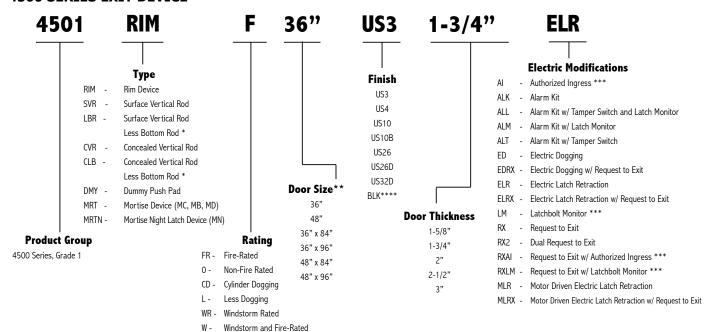


4500 SERIES	А	В
4500 PANIC - 36"	10 F/27"(461mm)	22 E/22"(042mm)
4500 FIRE -36"	18 5/32"(461mm)	33 5/32"(842mm)
4500 PANIC - 48"	24"/611 maya)	44"/1121
4500 FIRE - 48"	24"(611mm)	44"(1121mm)



### **4500 SERIES - HOW TO ORDER**

### **4500 SERIES EXIT DEVICE**



<sup>\*</sup>Fire-rated LBR and CLB devices must be ordered in pairs of vertical rod devices or can be used in conjunction with an approved automatic or constant latching flush bolt. When ordering pairs, specify one device LBR and second device LBR with fire bolt, for example: 4501 LBR Fire 36" x 84" plus 4501 LBR Fire 36" x 84" EO with bolt -OR- 4501 LBR Fire 36" x 84" plus an approved automatic or constant latching flush bolt. 24" door size available (Extended lead-time). \*\*\* Not available on Mortise Exit Devices

45	CE	A	RC	US3	1-3/4"		EL24
roduct Group	T		ever Style	Finish	Door Thickness		Ontions
5 - 4500 Series, Grade	ted Trim/Function	ARC -	Archer	US3	1-5/8"	EL12-	Options Fail Safe, 12 Volt ***
BE -	Blank Escutcheon	AUG -	August	US4	1-3/4"	EL24 -	Fail Safe, 24 Volt ***
	Function 14, always operable	WLM-	William	US10	2"	EU12-	Fail Secure, 12 Volt ***
CE -	Cylinder Escutcheon	WTN -	Withnell	US10B	2-1/2"	EU24 -	Fail Secure, 24 Volt ***
	Function 08, key locks/unlocks	CHA -	Charles	US26	3"	TW -	Tactile Warning
DT -	Dummy Trim	JHN -	Johnston**	US26D		A-	Antimicrobial Coating
	Function 02, pull when dogged down	JOS-	Joshua	US32D (pull plate trim only)			(US26D and US32D only
ET -	Electric Escutcheon Trim	LOU -	Louis	BLK****			,
NL -	Night Latch (1-3/4" to 2-1/2" doors)	WRN -	Warren**	* Mortise trim does not match o	enterline of other 4500 ser	ies trim. Ca	nnot be used with
	Function 03, key retracts latchbolt			4500 Series Rim or Vertical R	od devices.		
PD -	Pull Plate Dummy Trim (Not available for 0	CVR device	e)	** Johnston and Warren lever de	signs are handed - specify L	HR/RH or R	RHR/LH when ordering.
	Function 02, pull when dogged down			••• Not available on Mortise Exi	t trim		•
PN -	Pull Plate Night Latch (Not available for C	VR device)		**** Extended lead time for flat I	olack finish.		
	Function 03, key retracts latchbolt						
PT -	Thumbpiece Entrance (Not available for C	VR device	)	Notes:			
	Function 05, key locks or unlocks thumbp	iece		1. Mortise cylinder 3902 is red	quired for use with cylinder e	scutcheon	trim and pull plate
VR -	Vandal Resistant			with thumbpiece trim and is	sold separately.		
MB -	Mortise Blank Escutcheon (14)*			2. Rim cylinder with long tailpie	ce 3901 is required for use	with night	latch trim and is
MC -	Mortise Cylinder Escutcheon (08) *			sold separately.			
MD -	Mortise Dummy Trim (02) *			3. For more cylinder information	n, please refer to Cylinder, (	Core & Keyii	ng in the Locks section
MN -	Mortise Night Latch (03) *			of the catalog.			



### **4500 SERIES - GRADE 1 RIM DEVICE**

**WARRANTY** 

Lifetime warranty

**FEATURES** 

Certification:

BHMA Certified Grade 1 and meets life safety codes

and fire-safety requirements.

See charts on page 4 for details and options.

Covers:

Stainless steel, zinc

Cover Tube:

Aluminum

Dogging:

· Hex key dogging standard on panic-rated devices

• Less dogging available on panic-rated devices, specify LD

• Cylinder dogging available on panic-rated devices, specify CD (3902 1-1/8" (29 mm) mortise cylinder sold separately)

End Caps:

Zinc

• Flush end cap option available

Fasteners:

• Wood and machine screws

Thru-bolts supplied standard

Latchbolt:

3/4" (19 mm) throw, pullman type with automatic dead-latching, stainless steel

Strikes:

- Stainless steel with stainless steel pin and roller included standard with panic device
- Solid stainless steel included standard with fire-rated device
- Surface applied to frame with slotted holes for easy adjustment
- Double door strike for use with surface vertical rod and rim device available

### **SPECIFICATIONS**

Door Thickness:

1-3/4" (44 mm) - Standard up to 3", except with night latch (NL) which is 2-1/2"

Door Width:

- 36" (914 mm) field sizeable to 30" (762 mm) panic-rated door and 28" (711 mm) fire-rated door
- 48" (1219 mm) field sizeable to 36" (914 mm) panic- or fire-rated door

Projection:

- 3" (76 mm) in undogged position
- 2-5/8" (67 mm) in dogged position

Stile Width:

- 5-3/8" (137 mm) minimum stile width required for single door and 5/8" (16 mm) stop
- 4-7/8" (124 mm) minimum stile width required for double door x surface vertical rod with double door strike
- 5-3/4" (146 mm) minimum stile width required for double doors with 2" (51 mm) mullion
- All stile widths are measured from door edge.

Notes:

Recommended for use on appropriately reinforced doors

**TRIM** 

- 4500 Series excutcheon trim for rim device is surface mounted with a variety of lever options (pp. 22-23)
- Pull plate trim
- Vandal resistant
- Rim cylinder x optional pull

**FINISHES** 

- US3, US4, US10, US10B, US26, US26D, US32D, BLK
- Trim not available in US32D
- Anti-Microbial available with US26D, US32D





### **4500 SERIES - GRADE 1 RIM DEVICE - ELECTRIFIED**

**WARRANTY** 

- One-year on electrified components
- Lifetime on hardware components

**FEATURES** 

Same as 4500 Series Rim Device



#### **SPECIFICATIONS**

Door Width:

- 36" (914 mm) field sizeable to 30" (762 mm) panic-rated door and 28" (711 mm) fire-rated door for devices with any monitoring switches
- 48" (1219 mm) field sizeable to 36" (914 mm) panic- or fire-rated door for devices with any monitoring switches
- 36" field sizeable to 34" door minimum for devices with motorized electric latch retraction or delayed egress
- 36" door minimum for devices with solenoid electric latch retraction, electric dogging or alarm kit
- 48" field sizeable to 42" door minimum for devices with solenoid, electric dogging or alarm kit
- 48" field sizeable to 40" door minimum with motorized electric latch retraction or delayed egress

#### **FUNCTIONS**

- ELR Electric Latch Retraction
- ED Electric Dogging
- RX Request to Exit (field installation kit 2-649-5001)
- RX2 Dual Request to Exit
- ELRX Electric Latch Retraction with Request to Exit
- EDRX Electric Dogging with Request to Exit
- ALK Alarm Kit (kit 4940, tamper switch 2-649-1090)
- AI Authorized Ingress
- RXAI Request to Exit with Authorized Ingress
- LM Latchbolt Monitor (2-649-0168)
- RXLM Request to Exit with Latchbolt Monitor
- MLR Motor Driven Electric Latch Retraction (field installation kit 2-649-5007)
- MLRX Motor Driven Electric Latch Retraction with Request to Exit
- DE Delayed Egress (must order wall mount controller 2-679-0630 separately)

Electrical Specifications and Wire Requirements - See 4500 Series Electric Modifications page 20.



### 4500 SERIES - GRADE 1 SURFACE VERTICAL ROD DEVICE

WARRANTY

Lifetime warranty

**FEATURES** 

Certification:

BHMA Certified Grade 1 and meets life safety

codes and fire-safety requirements.

See charts on page 4 for details and options.

Covers:

Stainless steel, zinc

Cover Tube:

Aluminum

Dogging:

Hex key dogging standard on panic-rated devices

Less dogging available on panic-rated devices, specify LD

Cylinder dogging is available on panic-rated devices, specify CD

(3902 1-1/8" (29 mm) mortise cylinder sold separately)

End Caps:

Zinc

• Flush end cap option available

Fasteners:

· Wood and machine screws Thru-bolts supplied standard

Latchbolt:

Top - 1/2" (13 mm) throw, pullman type with automatic dead-latching, stainless steel

Bottom - 1/2" (13 mm) throw, pullman type, held retracted during door swing, stainless steel

Strikes:

Stainless steel with stainless steel pin and roller - included standard with panic device

• Solid stainless steel - included standard with fire-rated device

• Surface applied to frame with slotted holes for easy adjustment

• 10' (3048 mm) fire-rated device requires strike and hook kit, 4912 for top strike

• Double door strike for use with surface vertical rod and rim device available

### **SPECIFICATIONS**

Door Thickness:

1-3/4" (44 mm) - Standard up to 3", except with night latch (NL) function which is 2-1/2"

Door Width:

• 36" (914 mm) field sizeable to 30" (762 mm) panic-rated door and 28" (711 mm) fire-rated door

• 48" (1219 mm) field sizeable to 36" (914 mm) panic- or fire-rated door

Projection:

• 3" (76 mm) in undogged position

2-5/8" (67 mm) in dogged position

Vertical Rods:

Stile Width:

• Rods for 7' (2134 mm) doors - 33-1/4" (845 mm) top rod length

• Rods for 8' (2438 mm) doors - 45-1/4" (1149 mm) top rod length

• Extension rods kits available, 2' (610 mm) or 3' (914 mm) for doors over 7'

5-3/8" (137 mm) - Minimum stile width required for single door and 5/8" (16 mm) stop
4-7/8" (124 mm) - Minimum stile width required for double doors
4-7/8" (124 mm) - Minimum stile width required for double door x Rim Device with double door strike

All stile widths are measured from door edge

Notes:

Center line prep is 40". If door prep elevation is lower, a longer top rod will need to be ordered.

Recommended for use on appropriately reinforced doors

**TRIM** 

4500 Series escutcheon trim for vertical rod device is surface mounted with variety of lever options (pp. 22-23)

• Pull plate trim (excluding 45PT)

Vandal resistant

Rim cylinder x optional pull

**FINISHES** 

US3, US4, US10, US10B, US26, US26D, US32D, BLK

Trim is not available in US32D

Anti-microbial available with US26D, US32D





### 4500 SERIES - GRADE 1 SURFACE VERTICAL ROD DEVICE - LESS BOTTOM ROD (LBR)

WARRANTY

Lifetime warranty

**FEATURES** 

Certification:

BHMA Certified Grade 1 and meets life safety

codes and fire-safety requirements.

See charts on page 4 for details and options.

Covers:

Stainless steel, zinc

Cover Tube:

Aluminum

Dogging:

• Hex key dogging standard on panic-rated devices

Less dogging available on panic-rated devices, specify LD

 Cylinder dogging is available on panic-rated devices, specify CD (3902 1-1/8" (29 mm) mortise cylinder sold separately)

End Caps:

Zinc

• Flush end cap option available

Fasteners:

Wood and machine screwsThru-bolts supplied standard

Latchbolt:

Top - 1/2" (13 mm) throw, pullman type with automatic dead-latching, stainless steel

Strikes:

• Stainless steel with stainless steel pin and roller - included standard with panic device

• Solid stainless steel - included standard with fire-rated device

• Surface applied to frame with slotted holes for easy adjustment

• Double door strike for use with surface vertical rod and rim device available

### **SPECIFICATIONS**

Door Thickness:

1-3/4" (44 mm) - Standard up to 3", except with night latch (NL) function escutcheon trim which is 2-1/2"

Door Width:

• 36" (914 mm) field sizeable to 30" (762 mm) panic-rated door and 28" (711 mm) fire-rated door

• 48" (1219 mm) field sizeable to 36" (914 mm) panic- or fire-rated door

Projection:

• 3" (76 mm) in undogged position

• 2-5/8" (67 mm) in dogged position

Vertical Rods:

• Rods for 7' (2134 mm) doors - 33-1/4" (845 mm) top rod length

• Rods for 8' (2438 mm) doors - 45-1/4" (1149 mm) top rod length

• Extension rod kits available, 2' (610 mm) or 3' (914 mm) for doors over 7'

Stile Width:

• 5-3/8" (137 mm) - Minimum stile width required for single door and 5/8" (16 mm) stop

• 4-7/8" (124 mm) - Minimum stile width required for double doors

• 4-7/8" (124 mm) - Minimum stile width required for double doors x rim device with double door strike

All stile widths are measured from door edge

Notes:

• Hole plug for head cover included standard

Recommended for use on appropriately reinforced doors

• A spring loaded fire bolt 2-649-0166 must be used on fire-rated LBR devices used on a pair of doors to ensure the device's fire rating

**TRIM** 

4500 Series escutcheon trim for vertical rod device is surface mounted with a variety of lever options (pp. 22-23)

• Pull plate trim (excluding 45PT)

Vandal resistant

• Rim cylinder x optional pull

**FINISHES** 

US3, US4, US10, US10B, US26, US26D, US32D, BLK

• Trim is not available in US32D

· Anti-Microbial available with US26D, US32D



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### 4500 SERIES - GRADE 1 SURFACE VERTICAL ROD/LBR DEVICES - ELECTRIFIED

#### **WARRANTY**

- One-year on electrified components
- Lifetime on hardware components

### **FEATURES**

Same as 4500 Series SVR Device

#### **SPECIFICATIONS**

Door Width:

- 36" (914 mm) field sizeable to 30" (762 mm) panic-rated door and 28" (711 mm) fire-rated door for devices with any monitoring switches
- 48" (1219 mm) field sizeable to 36" (914 mm) panic- or fire-rated door for devices with any monitoring switches
- 36" field sizeable to 34" door minimum for devices with motorized electric latch retraction or delayed egress
- 36" door minimum for devices with solenoid electric latch retraction, electric dogging or alarm kit
- 48" field sizeable to 42" door minimum for devices with solenoid, electric dogging or alarm kit
- 48" field sizeable to 40" door minimum with motorized electric latch retraction or delayed egress

### **FUNCTIONS**

- ELR Electric Latch Retraction
- ED Electric Dogging
- RX Request to Exit (field installation kit 2-649-5001)
- RX2 Dual Request to Exit
- ELRX Electric Latch Retraction with Request to Exit
- EDRX Electric Dogging with Request to Exit
- ALK Alarm Kit (kit 4940, tamper switch 2-649-1090)
- AI Authorized Ingress
- RXAI Request to Exit with Authorized Ingress
- LM Latchbolt Monitor (2-649-0168)
- RXLM Request to Exit with Latchbolt Monitor
- MLR Motor Driven Electric Latch Retraction (field installation kit 2-649-5007)
- MLRX Motor Driven Electric Latch Retraction with Request to Exit
- DE Delayed Egress (must order wall mount controller 2-679-0630 separately)

Electrical Specifications and Wire Requirements - See 4500 Series Electric Modifications page 20.





### **4500 SERIES - GRADE 1 CONCEALED VERTICAL ROD**

**WARRANTY** 

Lifetime warranty

**FEATURES** 

Certification:

BHMA Certified Grade 1 and meets life safety

codes and fire-safety requirements.

See charts on page 4 for details and options.

Covers:

Stainless steel, zinc

Cover Tube:

Aluminum

Dogging:

Hex key dogging standard on panic-rated devices

Less dogging available on panic-rated devices, specify LD

Cylinder dogging is available on panic-rated devices, specify CD

(3902 1-1/8" (29 mm) mortise cylinder with standard cam sold separately)

End Caps:

• Flush end cap option available

Fasteners:

· Wood and machine screws Thru-bolts supplied standard

Latchbolt:

• Top - 1/2" (13 mm) throw, pullman type with automatic dead-latching, stainless steel

• Bottom - 1/2" (13 mm) throw, pullman type, held retracted during door swing, stainless steel

Strikes:

Stainless steel with stainless steel pin and rollers - included standard with panic device

• Solid stainless steel - included standard with fire-rated device

• Top strike mortised into frame

• Double door strike for use with CVR and RIM device available

### **SPECIFICATIONS**

Door Thickness:

1-3/4" (44 mm) - Standard

Door Width:

36" (914 mm) field sizeable to 30" (762 mm) panic-rated door and 28" (711 mm) fire-rated door
48" (1219 mm) field sizeable to 36" (914 mm) panic- or fire-rated door

Projection:

• 3" (76 mm) in undogged position

• 2-5/8" (67 mm) in dogged position

Vertical Rods:

Rods for 7' (2134 mm) doors - 34-5/8" (879 mm) top rod length
Rods for 8' (2438 mm) and 10' (3048 mm) doors - 46-5/8" (1184 mm) top rod length

• Extension rod kits available, 2' (610 mm) or 3' (914 mm) for doors over 7'

Stile Width:

• 4" (102 mm) minimum stile width required

All stile widths are measured from door edge

Notes:

NOT recommended for doors with inset greater than 1/8", for example: double egress frames, or jamb depths over 5-3/4" or greater - for additional information, contact Hager Companies
Center line prep is 40" (1016 mm) - if door prep elevation is lower, a longer top rod will need to be ordered
Recommended for use on appropriately reinforced doors

**TRIM** 

• 4500 Series escutcheon trim for vertical rod device is surface mounted with a variety of lever options (pp. 22-23)

• Pull plate trim (excluding 45PT)

Vandal resistant

• Rim cylinder x optional pull

**FINISHES** 

• US3, US4, US10, US10B, US26, US26D, US32D, BLK

• Trim is not available in US32D

Anti-Microbial available with US26D, US32D



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### 4500 SERIES - GRADE 1 CONCEALED VERTICAL ROD - LESS BOTTOM ROD (CLB)

WARRANTY

Lifetime warranty

**FEATURES** 

Certification:

BHMA Certified Grade 1 and meets life safety

codes and fire-safety requirements.

See charts on page 4 for details and options.

Covers: Stainless steel, zinc

Cover Tube: Aluminum

• Hex key dogging standard on panic-rated devices Dogging:

Less dogging available on panic-rated devices, specify LD

Cylinder dogging is available on panic-rated devices, specify CD

(3902 1-1/8" (29 mm) mortise cylinder with standard cam sold separately)

End Caps:

Flush end cap option available

 Wood and machine screws Fasteners:

Thru-bolts supplied standard

Latchbolt: Top - 1/2" (13 mm) throw, pullman type with automatic dead-latching, stainless steel

Strikes: Stainless steel with stainless steel pin and roller - included standard with panic device

Solid stainless steel - included standard with fire-rated device

• Top strike mortised into frame

Double door strike for use with CVR and RIM device available

#### **SPECIFICATIONS**

Door Thickness:

1-3/4" (44 mm) - Standard

Door Width:

- 36'' (914 mm) field sizeable to 30'' (762 mm) panic-rated door and 28'' (711 mm) fire-rated door 48'' (1219 mm) field sizeable to 36'' (914 mm) panic- or fire-rated door

Projection:

• 3" (76 mm) in undogged position • 2-5/8" (67 mm) in dogged position

Vertical Rods:

- Rods for 7' (2134 mm) doors 34-5/8" (879 mm) top rod length
  Rods for 8' (2438 mm) and 10' (3048 mm) doors 46-5/8" (1184 mm) top rod length
  Extension rod kits available, 2' (610 mm) or 3' (914 mm) for doors over 7'

Stile Width:

- 4" (102 mm) minimum stile width required
- · All stile widths are measured from door edge

Notes:

- NOT recommended for doors with inset greater than 1/8", for example: double egress frames, or jamb depths over 5-3/4" or greater
- A spring loaded fire bolt 2-649-0166 must be used on fire-rated LBR devices used on a pair of doors to ensure the device's fire rating
- Center line prep is 40" (1016 mm) if door prep elevation is lower, a longer top rod will need to be ordered
- Recommended for use on appropriately reinforced doors

**TRIM** 

- 4500 Series escutcheon trim for vertical rod device is surface mounted with a variety of lever options (pp. 22-23)
- Pull plate trim (excluding 45PT)
- Vandal resistant
- Rim cylinder x optional pull

**FINISHES** 

- US3, US4, US10, US10B, US26, US26D, US32D, BLK
- Trim is not available in US32D
- Anti-Microbial available with US26D, US32D





### 4500 SERIES - GRADE 1 CONCEALED VERTICAL ROD/CLB DEVICES - ELECTRIFIED

#### **WARRANTY**

- One-year on electrified components
- Lifetime on hardware components

### **FEATURES**

Same as 4500 Series CVR Device

#### **SPECIFICATIONS**

#### Door Width:

- 36" (914 mm) field sizeable to 30" (762 mm) panicrated door and 28" (711 mm) fire-rated door for devices with any monitoring switches
- 48" (1219 mm) field sizeable to 36" (914 mm) panic- or fire-rated door for devices with any monitoring switches
- 36" field sizeable to 34" door minimum for devices with motorized electric latch retraction or delayed egress
- 36" door minimum for devices with solenoid electric latch retraction, electric dogging or alarm kit
- 48" field sizeable to 42" door minimum for devices with solenoid electric latch retraction, electric dogging or alarm kit
- 48" field sizeable to 40" door minimum with motorized electric latch retraction or delayed egress

#### Notes:

- NOT recommended for doors with inset greater than 1/8", for example: double egress frames, or jamb depths over 5-3/4" or greater
- A spring loaded fire bolt 2-649-0166 must be used on fire-rated LBR devices used on a pair of doors to ensure the device's fire rating

### **FUNCTIONS**

- ELR Electric Latch Retraction
- ED Electric Dogging
- RX Request to Exit (field installation kit 2-649-5001)
- RX2 Dual Request to Exit
- ELRX Electric Latch Retraction with Request to Exit
- EDRX Electric Dogging with Request to Exit
- ALK Alarm Kit (kit 4940, tamper switch 2-649-1090)
- AI Authorized Ingress
- RXAI Request to Exit with Authorized Ingress
- LM Latchbolt Monitor (2-649-0168)
- RXLM Request to Exit with Latchbolt Monitor
- MLR Motor Driven Electric Latch Retraction (field installation kit 2-649-5007)
- MLRX Motor Driven Electric Latch Retraction with Request to Exit
- DE Delayed Egress (must order wall mount controller 2-679-0630 separately)

Electrical Specifications and Wire Requirements - See 4500 Series Electric Modifications page 20.





### 4500 SERIES - GRADE 1 MORTISE DEVICE

WARRANTY

Lifetime warranty

**FEATURES** 

Certification: | BHMA Certified Grade 1 and meets life safety

codes and fire-safety requirements.

See charts on page 4 for details and options.

Covers: Stainless steel, zinc

Cover Tube: Aluminum

Dogging: • Hex key dogging standard on panic-rated devices

Less dogging available on panic-rated devices, specify LD

Cylinder dogging is available on panic-rated devices, specify CD

(3902 1-1/8" (29 mm) mortise cylinder with standard cam sold separately)

End Caps: • Zin

• Flush end cap option available

Fasteners: • Wood and machine screws

• Thru-bolts supplied standard

Latchbolt: 3/4" (19 mm) throw with anti-friction tongue, all stainless steel with auxiliary deadlocking latch

Strikes: 4-7/8" (124 mm) ASA strike-standard

#### **SPECIFICATIONS**

Door Thickness: 1-3/4" (44 mm) - Standard

Door Width: • 36" (914 mm) field sizeable to 30" (762 mm) panic-rated door and 28" (711 mm) fire-rated door

• 48" (1219 mm) field sizeable to 36" (914 mm) panic- or fire-rated door

Projection: • 3" (76 mm) in undogged position

• 2-5/8" (67 mm) in dogged position

Stile Width: • 4-1/2" (114 mm)

• All stile widths are measured from door edge.

Notes: Recommended for use on appropriately reinforced doors

• 4500 Series escutcheon trim for mortise device is available with a variety of lever options (p. 25) (3902, 1-5/8" cylinder with standard cam sold separately)

• Mortise cylinder (1-3/8") with cylinder collar (11/16") x optional pull

Mortise trim (45MB, 45MC, 45MD, 45MN) does not match center line of other 4500 Series trim

(45BE, 45CE, 45DT, 45NL)

**FINISHES** • US3, US4, US10, US10B, US26, US26D, US32D, BLK

• Trim is not available in US32D

• Anti-Microbial available with US26D, US32D





### **4500 SERIES - GRADE 1 MORTISE DEVICE - ELECTRIFIED**

#### **WARRANTY**

- One-year on electrified components
- Lifetime on hardware components

#### **FEATURES**

Same as 4500 Series Mortise Device

### **SPECIFICATIONS**

Door Width:

- 36" (914 mm) field sizeable to 30" (762 mm) panic-rated door and 28" (711 mm) fire-rated door for devices with any monitoring switches
- 48" (1219 mm) field sizeable to 36" (914 mm) panic- or fire-rated door for devices with any monitoring switches
- 36" field sizeable to 34" door minimum for devices with motorized electric latch retraction or delayed egress
- 36" door minimum for devices with electric dogging or alarm kit
- 48" field sizeable to 42" door minimum for devices with electric dogging or alarm kit
- 48" field sizeable to 40" door minimum with motorized electric latch retraction or delayed egress

#### **FUNCTIONS**

- ED -Electric Doggina
- EU/EL Electrifed Mortise Exit Device provides means of locking/unlocking outside lever trim control remotely
- Request to Exit • RX -
- Dual Request to Exit • RX2 -
- $\bullet$  EDRX Electric Dogging with Request to Exit
- ALK Alarm Kit (kit 4940, Latchbolt Monitor 2-649-0168, Tamper Switch 2-649-1090)
   MLR Motor Driven Electric Latch Retraction (field installation kit 2-649-5007)
- MLRX Motor Driven Electric Latch Retraction with Request to Exit
- DE -Delayed Egress (must order wall mount controller 2-679-0630 separately)

Electrical Specifications and Wire Requirements - See 4500 Series Electric Modifications page 20.



### **4500 SERIES - DUMMY PUSH PAD**

**WARRANTY** 

Lifetime warranty

**FEATURES** 

Application:

For use with 4500 and 4600 Series Exit Devices

Cover Tube:

Aluminum

End Caps:

• Zinc

• Flush end cap option available

Fasteners:

• Wood and machine screws • Thru-bolts supplied standard

Available Electric

Functions:

• RX - Request to Exit

• RX2 - Dual Request to Exit

**SPECIFICATIONS** 

Door Thickness:

1-3/4" (44 mm) - Standard

Door Width:

• 36" (914 mm) field sizeable to 27" (686 mm) door

• 48" (1219 mm) field sizeable to 36" (914 mm) door

Projection:

2-5/8" (67 mm)

Stile Width:

• 2-1/8" (54 mm) - minimum stile width

• All stile widths are measured from door edge

**FINISHES** 

• US3, US10B, US26D, US32D, BLK

• Anti-Microbial available with US26D, US32D





### **4500 SERIES - 4940 ALARM KIT**

**WARRANTY** 

- One-year on electrified components
- Lifetime on hardware components

## EMERGENCY EXIT ONLY ALARM WILL SOUND

#### **SPECIFICATIONS**

Battery:

• Standard 9-Volt battery required

• Audible chirp and alternating LED color flash when battery is low

Alarm:

100 decibel horn sounds immediately upon pressing push pad

Cylinder:

• 1-1/8" or 1-1/4" Mortise cylinders acceptable

• Hager standard cam required

Cylinder sold separately

Activation:

Alarm is armed by turning key clockwise

• Alarm is disarmed by turning the key counter-clockwise

• Alarm is turned to service mode by turning the key counter-clockwise twice

Alarm Timing:

• Alarm will sound for either 1, 3, 5 minutes or continuously

Times are selectable by on board switches

Warning Decal:

"Emergency Exit Only - Alarm Will Sound" on push pad of exit device

Indicator:

• LED Indicator

• Red LED will illuminate intermittently when armed

• Green LED will illuminate when unarmed

• Blue LED will illuminate in service mode

• Alternate colors flash when battery is low

Options:

• Tamper switch available that sounds alarm when end cap is removed

• Latch monitor switch is available that sounds alarm when latch is retracted without actuating the push pad

• Latch monitor switch typically used with Surface Vertical Rod devices

• When utilizing the latch monitor, the outside trim unit will also sound alarm

Output:

Alarm is equipped with output port





### **4500 SERIES - ELECTRIC MODIFICATIONS**

FUNCTION	#	DESCRIPTION
Electric Latch Retraction - Solenoid	ELR	Provides the means of locking or unlocking exit devices remotely. Requires the use of Hager 2901 or 2902 power supply or warranty voided. <i>Note: Mortise Exits require Motor Driven Latch Retraction (MLR)</i> .
Electric Dogging	ED	Provides continuous latch retraction and dogging simultaneously.
Request to Exit	RX	Used to shunt an alarm, activate an alarm, provide release of magnetic locks, or signal a console.
Electric Latch Retraction with Request to Exit	ELRX	Provides the means of locking or unlocking exit devices remotely, along with an SPDT switch. Requires the use of Hager 2901 or 2902 power supply or warranty voided. <i>Note: Mortise Exits will require Motor Driven Latch Retraction.</i>
Electric Dogging with Request to Exit	EDRX	Provides continuous latch retraction and dogging simultaneously along with an SPDT switch.
Dual Request to Exit	RX2	Features two SPDT switches
Latchbolt Monitoring	LM	An internal SPDT switch that monitors the latchbolt to signal both egress and access of an opening.
Latchbolt Monitoring/ Request to Exit	RXLM	Two internal SPDT switches that monitor the latchbolt and the pushbar simultaneously.
Electric Trim	ET	Provides the means of locking or unlocking outside lever trim controls remotely. Specify Fail Safe (EL) or Fail Secure (EU) and voltage (12V or 24V).
Authorized Ingress/Key Monitoring	AI	An internal SPDT switch that monitors the operation of the outside trim, available for use with either the 45BE, 45CE or 45NL trim or Night Latch by optional pull. Must be ordered with the device.
Request to Exit/ Authorized Ingress	RXAI	Two internal SPDT switches that monitor the pushbar and the outside trim simultaneously, available for use with either the 45CE or 45NL trim. Must be ordered with the device.
OnBoard Delayed Egress	OBDE	Delays egress for 15 seconds (30 seconds optional) when unauthorized egress is initiated. Modification can be made to 4501 or 4601 exit devices.
Delayed Egress	DE	Delays egress for 15 or 30 seconds when unauthorized egress is initiated. Wall mount controller (2-679-0630) provides digital countdown display with verbal instructions or alarm tone only and must be ordered separately.
Motor Driven Electric Latch Retraction	MLR	Provides the means of locking or unlocking exit devices remotely using an electric motor. Recommend Hager 2903 or 2904 Power Supply.
Motor Driven Electric Latch Retraction with Request to Exit	MLRX	Provides the means of locking or unlocking exit devices remotely using an electric motor, along with an SPDT switch. Recommend Hager 2903 or 2904 Power Supply.
Electrified Mortise Exit Device	EU/EL	Provides the means of locking or unlocking outside lever trim controls remotely. Specify Fail Safe (EL) or Fail Secure (EU) and voltage (12V or 24V).

### **ELECTRICAL SPECIFICATION/RATINGS AND WIRE REQUIREMENTS**

Electrical Specification/ Ratings:

- ED; .225 AMP @ 24 Volt +/- 2V RX or LM; 125 VAC (3 AMP current); 30 VDC (2 AMP current)
- ELR; Requires 2901/2902 power supply MLR; 1 AMP in rush @ 24 VDC +/- 2V, 400 mA holding
- DE; Single, 430 mA, Tandem 680 mA @ 24 VDC
- OBDE; Single, 540 mA; Tandem 790 mA @ 24 VDC

Wire Requirements:

- Status switches (i.e. RX, LM, etc.) require 2 wires per switch to monitor a normally open (NO) or normally closed (NC) position
- All devices provide 3 wires per switch so both NO and NC positions can be monitored
- Monitoring both positions will require 3 wires per switch

### **QUICK CONNECT**

Available on AI, ED, ELR, LM, MLR, and RX

### **POWER SUPPLIES**

For power supply options see electrified section, pages 41-49.

### ALARMED DEVICES - SPECIFY WHEN ORDERING (Note: Alarm kit components may be purchased separately)

**ALK - Alarm Kit** 

ALM - ALK with latch monitor switch (recommended for use with SVR devices)

ALT - ALK with tamper switch

ALL - ALK with latch monitor and tamper switch





### 4500 SERIES ESCUTCHEON TRIM - FOR 4500 RIM & VERTICAL ROD DEVICES

**WARRANTY** 

- One-year on electrified components
- Lifetime on hardware components

#### **SPECIFICATIONS**

Escutcheon:

2-7/8" x 10-3/4" (73 mm x 273 mm)

Notes:

- Cannot be used with 4500 Series Mortise exit device
- 45BE, 45CE, 45DT, 45NL trim does not match centerline of 4500 Series Mortise trim

(45MB, 45MC, 45MD and 45MN)

**LEVERS** 

Archer, August, Charles, Johnston, Joshua, Louis, Warren, William or Withnell Levers

**FINISHES** 

US3, US4, US10, US10B, US26, US26D (Not Available in US32D), BLK

Anti-Microbial available on US26D



### **45BE**

**Blank Escutcheon** 

ANSI Function: 14 - Always operable (passage)



### **45CE**

### Cylinder Escutcheon (Free-wheeling when locked)

ANSI Function: 08 - Key locks or unlocks lever

Cylinder: Requires 3902 mortise cylinder with standard cam (sold separately)



### **45DT**

**Dummy Trim** 

ANSI Function: 02 - Pull when device is dogged down



### **45NL**

**Night Latch** 

ANSI Function: 03 - Key retracts latchbolt

Cylinder: Requires 3901 rim cylinder with long tailpiece (sold separately)



### **45ET**

### **Electrified Trim (Free-wheeling when locked)**

ANSI Function: • 45ET EL- Electric Trim (Fail Safe)

• 45ET EU- Electric Trim (Fail Secure)

Cylinder: Requires 3902 mortise cylinder, 1-1/4" with standard cam (sold separately)

Voltage: 12V or 24V

Electrical Specifications and Wire Requirements - See 4500 Series Electric Modifications page 20.





## 4500 SERIES - ESCUTCHEON TRIM - LEVER OPTIONS FOR 4500 RIM & VERTICAL ROD DEVICES



### **AUGUST LEVER**



### **CHARLES LEVER**

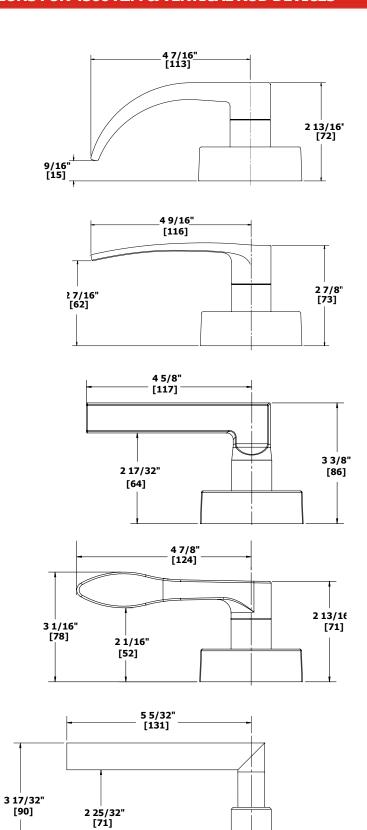


### **JOHNSTON LEVER - HANDED**



### **JOSHUA LEVER**



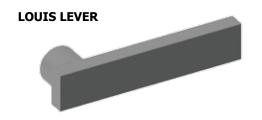


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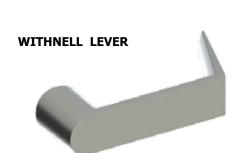
### 4500 SERIES - ESCUTCHEON TRIM - LEVER OPTIONS FOR 4500 RIM & VERTICAL ROD DEVICES



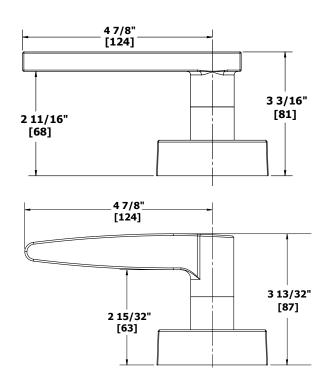
### **WARREN LEVER - HANDED**

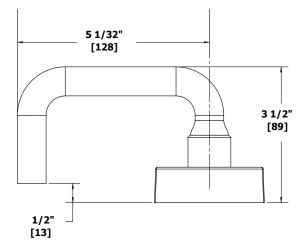


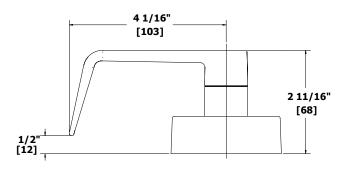














### 4500 SERIES - ESCUTCHEON TRIM - FOR 4500 MORTISE DEVICE

#### **WARRANTY**

- One-year on electrified components
- Lifetime on hardware components

#### **SPECIFICATIONS**

Escutcheon:

2-15/16" x 10" (75 mm x 254 mm)

Notes:

- Cannot be used with 4500 Series Rim or Vertical Rod devices
- Mortise trim (45MB, 45MC, 45MD, 45MN) does **not** match center line of other

4500 Series trim (45BE, 45CE, 45DT, 45NL)

**LEVERS** 

Archer, August, William or Withnell Levers

**FINISHES** 

- US3, US4, US10, US10B, US26, US26D, (Not Available in US32D), BLK
- Anti-Microbial available with US26D



#### **45MB**

Blank Escutcheon - For Use with 4501M Mortise Exit Device

ANSI Function: 14 - Always operable (passage)



### **45MC**

Cylinder Escutcheon - For Use with 4501M Mortise Exit Device

ANSI Function: 08 - Key locks or unlocks lever (free-wheeling when locked)

Cylinder: Requires 3902, 1-5/8" mortise cylinder with standard cam (sold separately)



### **45MD**

**Dummy Trim - For Use with 4501M Mortise Exit Device** 

ANSI Function: 02 - Pull when device is dogged down

Cylinder: Requires 3902, 1-5/8" mortise cylinder with standard cam (sold separately)



### **45MN**

Night Latch - For Use with 4501N Mortise Exit Device

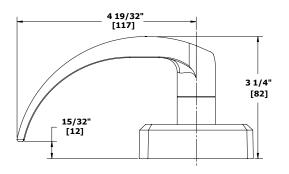
ANSI Function: 03 - Key retracts latchbolt

Cylinder: Requires 3902, 1-5/8" mortise cylinder with standard cam (sold separately)



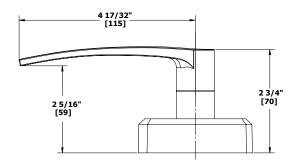
### 4500 SERIES - ESCUTCHEON TRIM - LEVER OPTIONS FOR 4500 MORTISE DEVICE



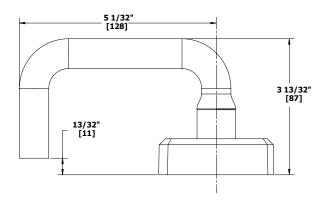


### **AUGUST LEVER**

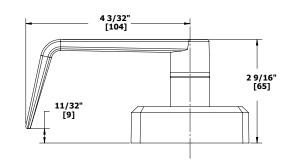
















### **4500 SERIES - PULL PLATE TRIM**

#### SPECIFICATIONS (45PD, 45PN, 45PT)

Plate: | 3" x 14" (76 mm x 356 mm)

Projection: 1-3/4" (44 mm)

Pull CTC: 5-1/2" (140 mm)



### **45PD**

**Dummy Trim** 

ANSI Function: 02 - Pull when device is dogged down

Finishes: US3, US4, US10, US10B, US26, US26D, US32D

Notes: • For use with 4500 RIM, SVR, LBR, CLB devices, not for use with CVR

Anti-Microbial available with US26D, US32D



### **45PN**

**Night Latch** 

ANSI Function: 03 - Key retracts latchbolt

Finishes: US3, US4, US10, US10B, US26, US26D, US32D Cylinder: Requires 3901 rim cylinder (sold separately)
Notes:

• Includes retaining cup for 161 door prep

• For use with 4500 RIM, SVR, LBR, CLB devices, not for use with CVR

Anti-Microbial available with US26D, US32D



### **Thumb Piece Pull Plate Trim**

ANSI Function: 05 - Key locks or unlocks thumbpiece

Finishes: US32D

Cylinder: Requires 3902 mortise cylinder with standard cam (sold separately)
Notes: For use with 4500 Rim exit only, not for use with vertical rod devices



### **313S**

### **Anti Vandal Pull**

Certification: Meets ANSI A156.6 for J401 Pull and J407 Pull Plate

Size: 6-11/32" x 11" (161 mm x 280 mm)

Projection: 1-7/8" (48 mm) Clearance: 1-5/8" (41 mm)

Door Thickness: 1-3/4"-2" (45 mm - 51 mm) Materials: 11 gauge stainless steel

Finishes: US32D

Fasteners: Thru bolts directly to device

Options: • Cylinder cutout available 1-1/4" (32 mm) dia. standard for exit device, specify handing

Plastisol grip available

Cylinder: Cylinder and cylinder collar must be ordered separately

• Requires 2-649-0137 7/16" cylinder collar with 3901 rim cylinder 1-1/4"- 1-3/8" long

(see instructions for more detail)

Notes: Available with latchguard (specify 313L)



### **RIM Cylinder by Optional Pull**

ANSI Function: 03 - Key retracts latchbolt

Finishes: US3, US4, US10, US10B, US26, US26D, US32D, BLK

Cylinder: Requires 3901 rim cylinder (sold separately). Standard (attached) and long

tailpieces in every box.

Notes: • For use with 4500 RIM, SVR, LBR, CLB devices, not for use with CVR

For pull options see Trim & Auxiliary section





### **4500 SERIES - STRIKES**



4915 **Threshold Strike** 

Optional strike for use with surface vertical rod exit device and saddle threshold; not for fire-rated doors

Finishes: US32D



4924

**Bottom Strike** 

Included standard with 4500 Series Vertical Rod exit devices; not for fire-rated doors

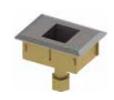
Finishes: US32D



4920 **Strike** 

Included standard with 4500 Series Rim exit devices; not for fire-rated doors

US32D Finishes:



4924F

**Fire-rated Bottom Strike** 

Included standard with fire-rated 4500 Series Vertical Rod exit devices

Finishes: US32D



4920F

Fire-rated Strike

Included standard with fire-rated 4500 Series rim exit devices

US32D Finishes:



4945

4945F

exit devices

Finishes: US32D

**Top Strike** 

Included standard with 4500 Series Concealed Vertical Rod exit devices: not for fire-rated doors

Included standard with fire-rated

4500 Series Concealed Vertical Rod

Finishes: US32D

**Fire-rated Top Strike** 



4921

4923 **Top Strike** 

**Double Door Strike** 

Optional strike to be used with 4500 Series Surface Vertical Rod and Rim exit devices; not for fire-rated doors

US3, US4, US10, US10B, Finishes:

Included standard with 4500 Series

Surface Vertical Rod exit devices;

US32D

US26, US32D, BLK



### **MORTISE EXIT STRIKE**

Included standard with 4500 Series Mortise exit device: not for

fire-rated doors.

Finishes: US10B (2-649-0205),

US26D (2-649-0204),

US32D (2-649-0203)



4923F

Finishes:

**Fire-rated Top Strike** 

not for fire-rated doors

Included standard with fire-rated 4500 Series Surface Vertical Rod exit devices

US32D Finishes:



#### FIRE-RATED MORTISE EXIT STRIKE

Included standard with fire-rated 4500 Series Mortise exit device; not for fire-rated doors.

Finishes: US10B (2-649-0208),

> US26D (2-649-0207), US32D (2-649-0206)





### **4500 SERIES - ACCESSORIES**



### 4926

#### Cylinder Dogging Conversion Kit

For use with panic-rated 4500 Series devices

US3, US4, US10, Finishes:

> US10B, US26, US26D, US32D, BLK. Anti-microbial available with US26D, US32D.

One (1) each dogging Packaging:

plate, cylinder collar,

cash box nut

• Mortise cylinder 3902 Notes:

with standard cam, sold separately

• Specify 36" (914 mm) or 48" (1219 mm)



### **Bottom Latch Assembly**

For use with 4500 Series Surface Vertical Rod exit device

1/2" (13 mm) throw, Description:

> pullman type, held retracted during door swing, stainless steel

US3, US4, US10, Finishes:

US10B, US26, US26D,

US32D, BLK

Packaging: One (1) bottom latch with

cover and appropriate

fasteners

### 4928

### **Top Latch Assembly**

For use with 4500 Series Surface Vertical Rod exit device

Description: 1/2" (13 mm) throw,

> pullman type, held retracted during door swing, stainless steel

US3, US4, US10, Finishes:

US10B, US26, US26D,

US32D, BLK

One (1) top latch with Packaging:

cover and appropriate

fasteners

### 2-649-0250/2-649-0257

### **Photoluminescent**

Push bar cover option for 4500 & 4600 Series exit devices

2-649-0250 - 4500/4600 36" Description:

2-649-0275 - 4500/4600 48"

Features: • Requires no wiring or maintenance

• Recharges with exposure to ambient light

### 4929

#### Top/Bottom Rod Replacement Kit

For use with 4500 Series Surface Vertical Rod exit device

Finishes: US3, US4, US10,

US10B, US26, US26D,

US32D, BLK.

One (1) each 45-1/4" Packaging:

> (1149 mm) rod, rod guide, rod connector, and appropriate fasteners

#### 4929C

### **Concealed Rod Replacement Kit**

For use with 4500 Series Concealed Vertical Rod exit device

Material: Hardened aluminum

Finishes: US26D Packaging: One (1) each

46-5/8" (1184 mm) rod, rod connector and appropriate fasteners

### 4930R

#### Shim Kit

For use with 4500 Series Rim exit devices where a glass bead kit would interfere with exit device

US3, US4, US10, Finishes:

US10B, US26, US26D,

US32D, BLK

Two (2) each 1/8" Packaging:

> (3 mm) shims and appropriate fasteners

### 4930S Shim Kit

For use with 4500 Series Surface Vertical Rod exit devices where a glass bead kit would interfere with exit device

Finishes: US3, US4, US10,

US10B, US26, US26D,

US32D, BLK

Packaging: Two (2) each 1/8"

> (3 mm) shims and appropriate fasteners







### **4500 SERIES - ACCESSORIES**



### 4932C **Head Cover**

For use with 4500 Series Concealed Vertical Rod or Mortise exit devices

Finishes: US3, US4, US10,

US10B, US26, US26D,

US32D, BLK, Anti-microbial available with US26D, US32D.

Packaging: One (1) head cover and

> four (4) each M4 x 6mm MS



### 4932R **Head Cover**

For use with 4500 Series Rim exit device

Finishes: US3, US4, US10,

US10B, US26, US26D, US32D, BLK, Antimicrobial available with US26D, US32D.

Packaging: One (1) head cover and

> four (4) each M4 x 6mm MS



### **4932S**

**Head Cover** 

For use with 4500 Series Surface Vertical Rod exit devices

Finishes: US3, US4, US10,

> US10B, US26, US26D, US32D, BLK. Anti-microbial available with US26D, US32D.

One (1) head cover and Packaging:

> four (4) each M4 x 6mm MS



### 4936

#### 24" Extension Rod Kit

For use with 4500 Series Vertical Rod exit devices

Finishes: US3, US4, US10,

US10B, US26, US26D,

US32D, BLK

Packaging: One (1) each 24"

> (610 mm) extension rod, rod connector, rod guide, plus wood and machine screws

Extension rods threaded Notes:

> on both ends: if cuts are required, cut the standard rod on non-threaded end

### 4937

#### 36" Extension Rod Kit

For use with 4500 Series Vertical Rod exit devices

Finishes: US3, US4, US10,

US10B, US26, US26D,

US32D, BLK

Packaging: One (1) each 36"

> (914 mm) extension rod, rod connector, rod guide, plus wood and

machine screws

Extension rod threaded Notes:

on both ends; if cuts are required, cut the standard rod on non-threaded end



**Standard** 

HAGER

**Flush** 

### **END CAPS**

For use with all 4500 and 4600 Series exit devices

Finishes: Anti-microbial available with

US26D, US32D.

	Standard	Flush
US3	(2-649-0038)	(2-649-0218)
US4	(2-649-0039)	(2-649-0220)
US10	(2-649-0040)	(2-649-0214)
US10B	(2-649-0041)	(2-649-0215)
US26	(2-649-0042)	(2-649-0216)
US26D	(2-649-0043)	(2-649-0217)
US32D	(2-649-0044)	(2-649-0219)
BLK	(2-649-5013)	(2-649-5012)

One (1) each cap and Packaging:

bracket plus fasteners



### 2-649-0166 **Fire Bolt Kit**

For use with fire-rated 4500 Series Vertical Rod less bottom rod device

1-25/32" x 1" Faceplate:

(45 mm x 25 mm) **Bolt Diameter:** 7/16" (11 mm)

1-1/2" (38 mm) Bolt Length: Materials: Stainless steel Packaging: One (1) each fire bolt,

> plastic plug, head cover plug, and appropriate

fasteners

Required with a fire-Notes:

rated pair of LBR or LLB devices to ensure rating

# 4600 Series



### NARROW STILE HEAVY DUTY COMMERCIAL APPLICATION

The Hager 4600 Series is designed and engineered to provide a lifetime of superior performance on narrow stile doors (2-inch minimum) in heavy duty commercial applications. The 4600 Series design complements aluminum and glass construction and provides excellent durability for a range of applications. Properly applied and maintained Hager 4600 Series Exit Devices and Trim are backed by a lifetime warranty, providing peace of mind from distributor to building owner. Go to www.hagerco.com for specific warranty conditions.

Hager 4600 Series Exit Devices are BHMA certified Grade 1 and meet Life Safety codes and Fire Safety requirements.

Extruded aluminum construction, stainless steel push bar covers, die cast caps and covers, and dead locking stainless steel Pullman type latchbolts provide premium security and performance at value pricing.





### **4600 SERIES - COMPLIANCE AND CERTIFICATIONS**

### **4600 SERIES DEVICES**

BHMA Certified ANSI A156.3 Grade 1

UL305 Listed for Panic Hardware

UL10C Positive Pressure Rated

UL10B Neutral Pressure Rated

Complies with ANSI A117.1 for Accessible Buildings and Facilities



### **4600 SERIES FIRE-RATED DEVICES**

UL/cUL Listed for "A" Label Door Up to and Including 3 hours on 4' x 8' doors

Rim with Fire-rated Removable Mullion 4900UF UL/cUL Listed and Warnock Hersey Listed for "A" Label Door Up to and Including 3 hours on 8' x 8' doors





### **4600 SERIES - GENERAL INFORMATION**

### **Installation Made Easy**

For the convenience of our customers, Hager Companies introduced several key features to the exit device market.

- Thru-bolts are included with every model. Wood and machine screws are also provided standard in every package.
- Slotted strikes speed up installation, allowing the installer to make easy adjustments to align the latch to the strike.
- Non-handed device offers added versatility and means less inventory.
- Escutcheon trim is surface mounted with the locking mechanism built inside, reducing door preparation and installation time by requiring fewer holes in the door.

### Shim Kits

Shim kits are available for devices on doors with glass bead kits or other interfacing moldings. Each kit contains two 1/8" (3.2 mm) shims and the appropriate longer fasteners.

### **Dogging**

Cylinder dogging or less dogging are available to replace the standard hex key dogging on panic exit devices. For less dogging, specify LD on order. For cylinder dogging, specify CD on order or purchase 4926 for retrofit applications. Unit requires 1-1/8" (29 mm) mortise cylinder (part number 3902) with standard cam.

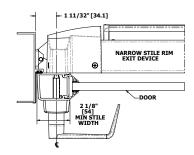
#### Sizing

The exit device is cut for 36" (914 mm) and 48" (1219 mm) wide doors. For other door widths, cut exit device to appropriate length. Recommended overall length of exit device is equal to the door width minus four inches.

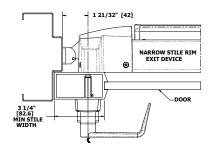
Trim Functions	Part Number	Function Description	ANSI Number
Blank Escutcheon	46BE	Always operable (Passage)	14
Cylinder Escutcheon	46CE	Key locks or unlocks lever	08
Dummy	46DT	Pull when device is dogged down	02
Night Latch	46NL	Key retracts latchbolt	03
Night Lever	46NK	Key releases lever; trim locked when key removed	09

### **Applications**

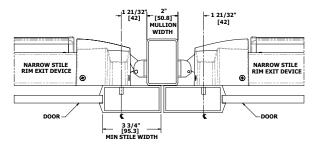
Single Door Panic Exit Hardware - Blade Stop Strike (4950) and Frame



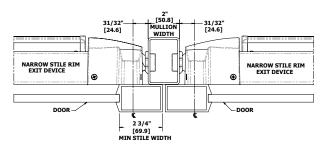
Single or Double Door with Panic Exit Hardware - Standard Strike (4920) and Frame



Single or Double Door with Panic Exit Hardware - Standard Strike (4920) and Mullion

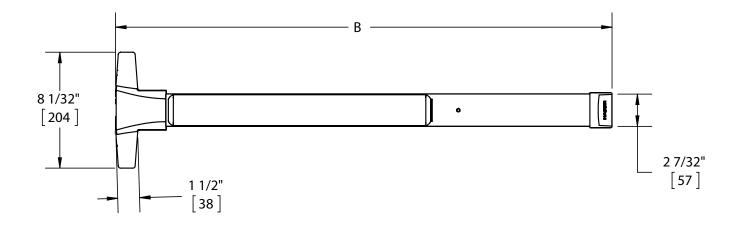


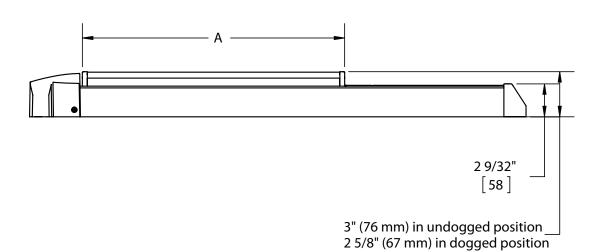
Single or Double Door with Panic Exit Hardware - Semi-Flush Mount Strike (4952) and Mullion





## **4600 SERIES - DEVICE PROFILE**



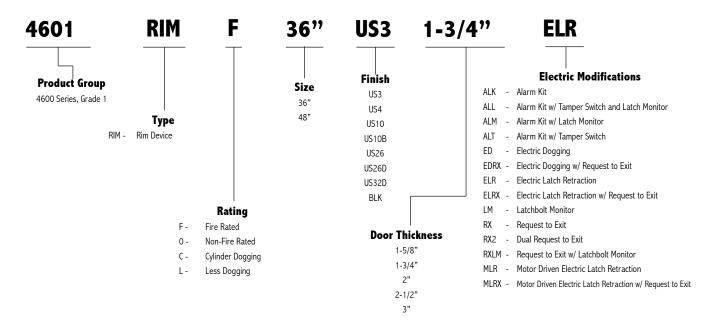


4600 SERIES	A	В
4600 PANIC -36"	18 5/32" (461mm)	34 3/8"(873mm)
4600 FIRE -36"		
4600 PANIC -48"	24"(609mm)	45 13/64"(1148mm)
4600 FIRE -48"		

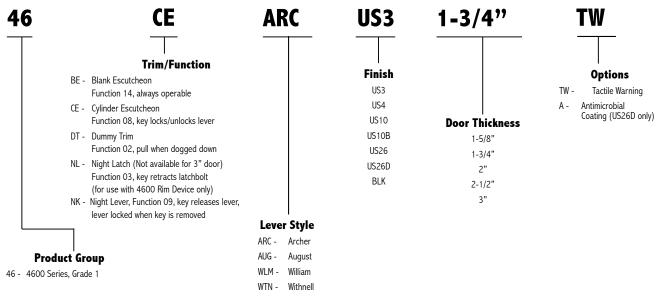


### **4600 SERIES - HOW TO ORDER**

### **4600 SERIES EXIT DEVICE**



### **4600 SERIES TRIM**



#### Notes:

- 1. Mortise cylinder 3902 with 3976 L cam is required for use with cylinder escutcheon trim and is sold separately.
- 2. Rim cylinder 3901 with long tailpiece is required for use with night latch trim and is sold separately.
- 3. For more cylinder information, please refer to Cylinder, Core & Keying in the Locks section of the catalog.
- 4. If using shim kit, specify total door thickness including shims.
- \* Extended lead time on flat black finish.





### **4600 SERIES - GRADE 1 NARROW STILE RIM DEVICE**

**WARRANTY** 

Lifetime warranty

**FEATURES** 

Certification:

BHMA Certified Grade 1 and meets life safety codes

and fire-safety requirements.

See page 32 for details and options.

Covers:

Stainless steel, zinc

Cover Tube:

Aluminum

Dogging:

• Hex key dogging standard on panic-rated devices

• Less dogging available on panic-rated devices, specify LD

• Cylinder dogging available on panic-rated devices, specify CD

3902 1-1/8" (29 mm) mortise cylinder with standard cam sold separately

End Caps:

Zinc

• Flush end cap option available

Fasteners:

• Wood and machine screws

• Thru-bolts supplied standard

Latchbolt:

3/4" (19 mm) throw, pullman type with automatic dead-latching, stainless steel

Strikes:

• Blade stop (4950) - Standard with panic device

• Fire-rated strike (4920F) - Standard with fire-rated device

• Standard strike (4920) - Optional

• Single rabbit strike (4951) - Optional

• Semi-flush mount strike (4952) - Optional

#### **SPECIFICATIONS**

Door Thickness:

1-3/4" (44 mm) - Standard up to 3", except with night latch (NL) which is 2-1/2"

Door Width:

• 36" (914 mm) field sizeable to 30" (762 mm) panic-rated door and 28" (711 mm) fire-rated door

• 48" (1219 mm) field sizeable to 36" (914 mm) panic- or fire-rated door

Projection:

• 3" (76 mm) in undogged position

• 2-5/8" (67 mm) in dogged position

Stile Width:

• 2-1/8" (54 mm) - Minimum stile width required for 1/2" (13 mm) blade stop frame and 4950 blade stop strike

• 3-1/4" (83 mm) - Minimum stile width required for single door, 5/8" (16 mm) stop and 4920 standard strike

• 3-3/4" (95 mm) - Minimum stile width required for double door x mullion x 4920 strike

• 2-3/4" (70 mm) - Minimum stile width required for double doors with 2" (51 mm) mullion and 4952

semi-flush mount strike
• All stile widths are measured from door edge

Notes:

Recommended for use on appropriately reinforced doors

**TRIM** 

• 4600 Series escutcheon trim for rim device is surface mounted with a variety of lever options (p. 41)

• Rim cylinder x optional pull

**FINISHES** 

• US3, US4, US10, US10B, US26, US26D, US32D, BLK

• Trim not available in US32D

· Anti-Microbial available with US26D, US32D







# **4600 SERIES - GRADE 1 NARROW STILE RIM DEVICE - ELECTRIFIED**

#### **WARRANTY**

- One-year on electrified components
- Lifetime on hardware components

#### **FEATURES**

Same as 4600 Series Narrow Stile Rim Device

#### **SPECIFICATIONS**

#### Door Width:

- 36" (914 mm) field sizeable to 30" (762 mm) panic-rated door and 28" (711 mm) fire-rated door for devices with any monitoring switches
- 48" (1219 mm) field sizeable to 36" (914 mm) panic- or fire-rated door for devices with any monitoring switches
- 36" field sizeable to 34" door minimum for devices with motorized electric latch retraction or delayed egress
- 36" door minimum for devices with solenoid electric latch retraction, electric dogging, or alarm kit
- 48" field sizeable to 42" door minimum for devices with solenoid electric latch retraction, electric dogging or alarm kit
- 48" field sizeable to 40" door minimum with motorized electric latch retraction or delayed egress

#### **FUNCTIONS**

- ELR Electric Latch Retraction
- ED Electric Dogging
- RX Request to Exit (field installation kit 2-649-5001)
- RX2 Dual Request to Exit
- ELRX Electric Latch Retraction with Request to Exit
- EDRX Electric Dogging with Request to Exit
- ALK Alarm Kit (kit 4941, tamper switch 2-649-1090)
- LM Latchbolt Monitor (2-649-0168)
- RXLM Request to Exit with Latchbolt Monitor
- MLR Motor Driven Electric Latch Retraction (field installation kit 2-649-5007)
- MLRX Motor Driven Electric Latch Retraction with Request to Exit
- DE Delayed Egress (must order with wall mount controller 2-679-0630 separately)

Electrical Specifications and Wire Requirements - See 4600 Series Electric Modifications page 39.



# 4600 SERIES - 4941 ALARM KIT

#### WARRANTY

- One-year on electrified components
- Lifetime on hardware components



## **SPECIFICATIONS**

Battery:

· Standard 9-Volt battery required

• Audible chirp and alternating LED color flash when battery is low

Alarm:

100 decibel horn sounds immediately upon pressing push pad

Cylinder:

• 1-1/8" or 1-1/4" Mortise cylinders acceptable

• Hager standard cam required

Cylinder sold separately

Activation:

· Alarm is armed by turning key clockwise

• Alarm is disarmed by turning the key counter-clockwise

• Alarm is turned to service mode by turning the key counter-clockwise twice

Alarm Timing:

• Alarm will sound for either 1, 3, 5 minutes or continuously

· Times are selectable by on board switches

Warning Decal:

"Emergency Exit Only - Alarm Will Sound" on push pad of exit device

Indicator:

• LED Indicator

· Red LED will illuminate intermittently when armed

Green LED will illuminate when unarmed
Blue LED will illuminate in service mode
Alternate colors flash when battery is low

Options:

• Tamper Switch available that sounds alarm when end cap is removed

• Latch monitor switch is available that sounds alarm when latch is retracted without actuating the push pad

• Latch Monitor Switch typically used with Surface Vertical Rod devices

• When utilizing the latch monitor, the outside trim unit will also sound alarm

Output:

Alarm is equipped with output port





# **4600 SERIES - ELECTRIC MODIFICATIONS**

FUNCTION	#	DESCRIPTION		
Electric Latch Retraction - Solenoid	ELR	Provides the means of locking or unlocking exit devices remotely. Requires the use of Hager 2901 or 2902 power supply or warranty voided. <i>Note: Mortise Exits require Motor Driven Latch Retraction (MLR)</i> .		
Electric Dogging	ED	Provides continuous latch retraction and dogging simultaneously.		
Request to Exit	RX	Used to shunt an alarm, activate an alarm, provide release of magnetic locks, or signal a console.		
Electric Latch Retraction with Request to Exit	ELRX	Provides the means of locking or unlocking exit devices remotely, along with an SPDT switch. Requires the use of Hager 2901 or 2902 power supply or warranty voided.  Note: Mortise Exits will require Motor Driven Latch Retraction.		
Electric Dogging with Request to Exit	EDRX	Provides continuous latch retraction and dogging simultaneously along with an SPDT switch.		
Dual Request to Exit	RX2	Features two SPDT switches		
Latchbolt Monitoring	LM	An internal SPDT switch that monitors the latchbolt to signal both egress and access of an opening.		
Latchbolt Monitoring/ Request to Exit	RXLM	Two internal SPDT switches that monitor the latchbolt and the pushbar simultaneously.		
Delayed Egress	DE	Delays egress for 15 or 30 seconds when unauthorized egress is initiated. Wall mount controller (2-679-063 provides digital countdown display with verbal instructions or alarm tone only and must be ordered separate		
Motor Driven Electric Latch Retraction	MLR	Provides the means of locking or unlocking exit devices remotely using an electric motor. Recommend Had 2903 or 2904 Power Supply.		
Motor Driven Electric Latch Retraction with Request to Exit	MLRX	Provides the means of locking or unlocking exit devices remotely using an electric motor, along with an SPDT switch. Recommend Hager 2903 or 2904 Power Supply.		

# **ELECTRICAL SPECIFICATION/RATINGS AND WIRE REQUIREMENTS**

Electrical Specifications/ Ratings:

- ED; .225 AMP @ 24 Volt +/- 2V
- RX or LM; 125 VAC (3 AMP current); 30 VDC (2 AMP current)
- ELR; Requires 2901/2902 power supply
- MLR; 1 AMP in rush @ 24 VDC +/- 2V, 400 mA holding

Wire Requirements:

- Status switches (i.e. RX, LM, etc.) require 2 wires per switch to monitor a normally open (NO) or normally closed (NC) position
  • All devices provide 3 wires per switch so both NO and NC positions can be monitored
- Monitoring both positions will require 3 wires per switch

# **QUICK CONNECT**

Available on ED, ELR, LM, MLR, and RX

## **POWER SUPPLIES**

PRODUCT #	DESCRIPTION
2901	For use with 4500/4600 Series electric latch retraction (ELR)
2902	For use with 4500/4600 Series electric latch retraction in a day/night mode of operation (ELR)
2903	Provides 24 Volt DC power for Fail Safe or Fail Secure locking devices and interface with building alarm controls, card
2903	readers, keypads, and other door controls
2904	Provides 24 Volt DC power and control for openings with an electrified locking device and automatic door operator
2908	Provides up to 1 amp of 12 or 24 Volt DC power - modular
2909	Provdes up to 2 amps of 12 or 24 Volt DC power - modular

ALARMED DEVICES - SPECIFY WHEN ORDERING: (Note: Alarm kit components may be purchased separately)

- **ALK Alarm Kit**
- **ALM ALK with Latch Monitor Switch**
- **ALT ALK with Tamper Switch**
- **ALL ALK with Latch Monitor and Tamper Switch**





# 4600 SERIES - ESCUTCHEON TRIM

**WARRANTY** Lifetime on hardware components

**SPECIFICATIONS** 

Escutcheon: 1-11/16" x 7-7/8" (43 mm x 200 mm)

**LEVERS** Archer, August, William or Withnell Levers

FINISHES • US3, US4, US10, US10B, US26, US26D (Not Available in US32D), BLK

• Anti-Microbial available with US26D

46BE

**Blank Escutcheon** 

ANSI Function: 14 - Always operable (passage)

**46CE** 

**Cylinder Escutcheon**ANSI Function: 08 - Key locks or unlocks lever

Cylinder: Requires 3902 mortise cylinder with 3976 L cam (sold separately)

46DT

**Dummy Trim**ANSI Function: 02 - Pull when device is dogged down

46NK Night Lever

ANSI Function: 09 - Key locks or unlocks lever. Lever is locked when key is removed.

Cylinder: Requires 3902 mortise cylinder, with 3976 L cam (sold separately)

46NL Night Latch

ANSI Function: 03 - Key retracts latchbolt

Cylinder: Requires 3901 rim cylinder with long tailpiece (sold separately)
Notes: Maximum door thickness compatibility is 2-1/2" (38 mm)

**RIM Cylinder by Optional Pull** 

ANSI Function: 03 - Key retracts latchbolt

Finishes: US3, US4, US10, US10B, US26, US26D, US32D, BLK

Cylinder: Requires 3901 rim cylinder (sold separately). Standard (attached) and long

tailpieces in every box.

Notes: • For use with 4600 RIM

For pull options see Trim & Auxiliary section





# **4600 SERIES - ESCUTCHEON TRIM - LEVER OPTIONS**



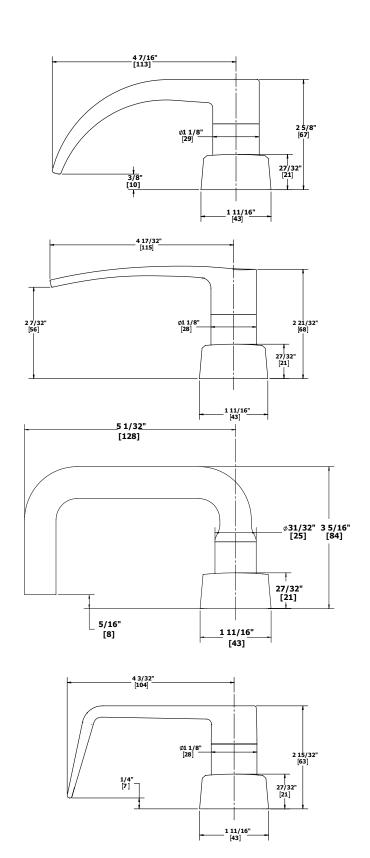
## **AUGUST LEVER**













# **4600 SERIES - STRIKES**

# **4600 SERIES - ACCESSORIES**



# 4920 Strike

Optional strike to be used with 4600 Series Rim exit device; not for fire-rated doors

Finishes: US32D

Notes: For standard surface

mounted applications



# 4920F

## **Fire-rated Strike**

Included standard with 4600 Series Fire-rated Rim exit device

Finishes: US32D

Notes: For standard surface

mounted applications



# 4950

# **Blade Stop Strike**

Included standard with 4600 Series Rim exit device; not for fire-rated doors

Finishes: US32D



## 4951

# Single Rabbit Strike

Optional strike to be used with 4600 Series Rim exit device; not for fire-rated doors

US32D



# 4952

Finishes:

# **Semi-Flush Mount Strike**

Optional strike to be used with 4600 Series Rim exit device; not for fire-rated doors

.....

Finishes: US32D



# 2-649-0250/2-649-0257

# **Photoluminescent**

Push bar cover option for 4500 & 4600 Series exit devices

Description: 2-649-0250 - 4500/4600 36"

2-649-0275 - 4500/4600 48"

Features: • Requires no wiring or maintenance

• Recharges with exposure to ambient light



## 4925R

### **Cylinder Dogging Conversion Kit**

Finishes: US3, US4, US10, US10B, US26,

US26D, US32D, BLK, Anti-Microbial available with US26D

and US32D

Packaging: One (1) each dogging plate,

cylinder collar, cash box nut

Notes: • Mortise cylinder 3902 with

standard cam, sold separately

 Specify 36" (914 mm) or 48" (1219 mm)



# 4960R Shim Kit

To be used with 4600 Series Rim exit device where a glass bead kit would interfere with exit device

Finishes: US3, US4, US10,

US10B, US26, US26D,

US32D, BLK

Packaging: Two (2) each 1/8"

(3 mm) shims and

appropriate fasteners



# 4965 Head Cover

For use with 4600 Series Rim exit device

Finishes: US3, US4, US10, US10B, US26,

US26D, US32D, BLK, Anti-

Microbial

Packaging: One (1) head cover and

four (4) each M4 x

6mm MS



# END CAPS

For use with all 4500 and 4600 Series exit devices

Packaging: One (1) each cap and

bracket plus fasteners

Finishes: Anti-Microbial available with US26D

and US32D



Standard

Flush

	Standard	Flush
US3	(2-649-0038)	(2-649-0218)
US4	(2-649-0039)	(2-649-0220)
US10	(2-649-0040)	(2-649-0214)
US10B	(2-649-0041)	(2-649-0215)
US26	(2-649-0042)	(2-649-0216)
US26D	(2-649-0043)	(2-649-0217)
US32D	(2-649-0044)	(2-649-0219)
BLK	(2-649-5013)	(2-659-5012)



# 4700 Series



STANDARD DUTY APPLICATION

The Hager 4700 Series is designed and engineered to provide superior performance on standard stile doors in a range of light commercial and standard duty applications. Properly applied and maintained Hager 4700 Series Exit Devices and Trim are backed by a five-year warranty. Go to www.hagerco.com for specific warranty conditions.

Hager 4700 Series Exit Devices meet Life Safety codes and Fire Safety requirements. The 4700 Series Rim device meets the requirements for a Severe Windstorm Resistant Component.

Made with superior materials and with dead locking stainless steel Pullman type latchbolts, the 4700 Series Exit Devices provide necessary security and performance at economy pricing.





# **4700 SERIES - COMPLIANCE AND CERTIFICATIONS**

# **4700 SERIES**

UL305 Listed for Panic Hardware

CULUS

**UL10C Positive Pressure Rated** 

CUL US

**UL10B Neutral Pressure Rated** 

C UL US

Complies with ANSI A117.1 for Accessible Buildings and Facilities



ANSI A 250.13 Severe Windstorm Resistant Componet

RIM	SVR
YES	YES
YES	

# **4700 SERIES FIRE-RATED DEVICES**

UL/cUL Listed for "A" Label Door Up to and Including...

UL/cUL Listed for "B" Label Door Up to and Including...

Rim with Fire-rated Removable Mullion 4900UF UL/cUL Listed and Warnock Hersey Listed for "A" Label Door Up to and Including...



VR X VR SAME DIRECTION\*
UL/cUL Listed for "A" Label Door Up to and Including...

VR X VR Double Egress
UL/cUL Listed for "A" Label Door Up to and Including...

RIM F	SVR F
3 HR 4'X8'	
	90 MIN 4'X8'
3 HR 8'X8'	
	90 MIN 8'X8'
	90 MIN 8'x8'

<sup>\*</sup>Currently, no door manufacter offers a listing over 90 minutes with doors swinging same direction. Consult wood door manufactuers for current UL listings.





# **4700 SERIES - GENERAL INFORMATION**

## **Installation Made Easy**

For the convenience of our customers, Hager Companies introduced several key features to the exit device market.

- Thru-bolts are included with every model. Wood and machine screws are also provided standard in every package.
- Slotted strikes speed up installation, allowing the installer to make easy adjustments to align the latch to the strike.
- Escutcheon trim is surface mounted with the locking mechanism built inside, reducing door preparation and installation time by requiring fewer holes in the door.

#### Shim Kits

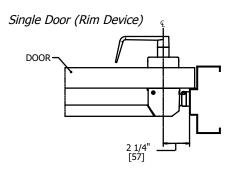
Shim kits are available for devices on doors with glass bead kits or other interfacing moldings. Each kit contains two 1/8" (3.2 mm) shims and the appropriate longer fasteners.

## Sizing

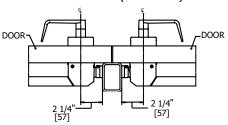
The exit device is cut for 36" (914 mm) and 48" (1219 mm) wide doors. For other door widths, cut exit device to appropriate length. Recommended overall length of exit device is equal to the door width minus four inches. The surface vertical rod devices are supplied for an 84" (2134 mm) opening standard, but can be ordered for a 96" (2438 mm) opening. Extension rods are available to accommodate openings taller than 96" (2438 mm) up to 120" (3048 mm).

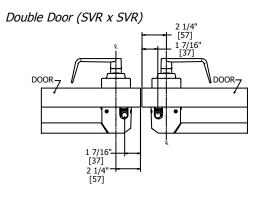
Trim Functions	Part Number	Function Description	ANSI Number
Passage	47BE* 47BT 47KP	Always operable (*specify handing when ordering)	14
Classroom	47CE* 47KE	Key locks or unlocks lever (*specify handing when ordering)	08
Dummy	47DT* 47KD 47PD 47RD	Pull when device is dogged down (*specify handing when ordering)	02
Night Latch	47NL* 47KN 47PN 47RN	Key retracts latchbolt (*specify handing when ordering)	03
Cylinder Thumbpiece	47PT	Key locks or unlocks thumbpiece	05

# **Applications**

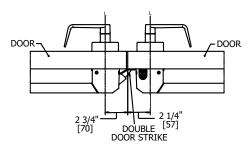


Double Door with Mullion (Rim x Rim)





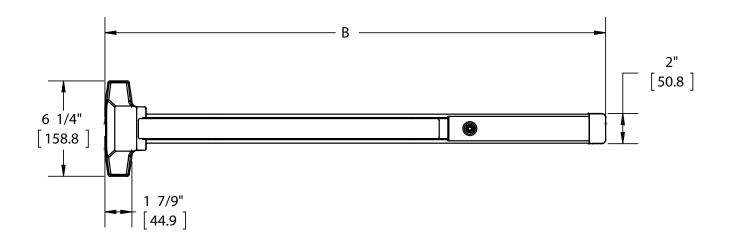
Double Door (SVR x Rim)

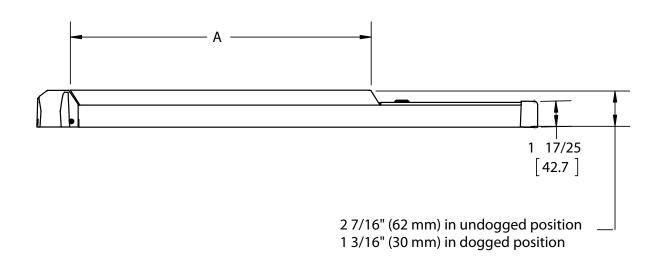






# **4700 SERIES - DEVICE PROFILE**





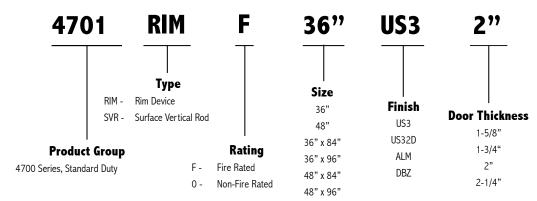
4700 SERIES	А	В	
4700 PANIC - 36"			
4700 FIRE - 36"	19 45/64 (500mm)	32 51/64 (833mm)	
4700 PANIC - 48"			
4700 FIRE - 48"	24 29/64 (621mm)	44 51/64 (1137mm)	



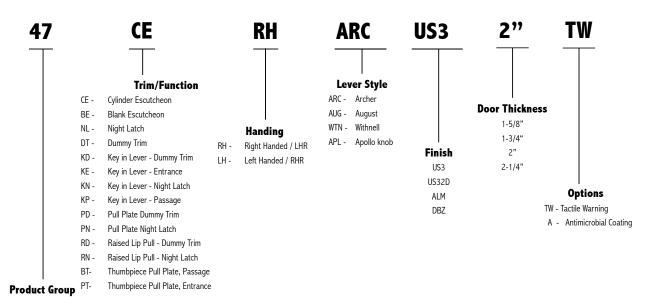


# **4700 SERIES - HOW TO ORDER**

# **4700 SERIES EXIT DEVICE**



## **4700 SERIES TRIM**



47 - 4700 Series, Standard Duty

#### Notes:

- 1. Handing is required for the 4700 Series trim.
- 2. Cylinders sold separately.
- 3. For more cylinder information, please refer to Cylinder, Core & Keying in the Locks section of the catalog.
- 4. Maximum door thickness compatibility for key-in-lever (Entrance, Night Latch, and Passage) trim is 1-3/4" (44 mm)





# 4700 SERIES - STANDARD DUTY RIM DEVICE

**WARRANTY** 

Five-year warranty

**FEATURES** 

Certification: Meets life safety codes and fire-safety requirements.

See charts on page 44 for details and options.

Covers: Cast brass, bronze, stainless steel, zinc

Cover Tube: Painted steel, plated steel, stainless steel

Dogging: Hex dogging feature standard on non-fire labeled doors

End Caps: Painted steel, plated steel, stainless steel

Fasteners: • Wood and machine screws

• Thru-bolts supplied standard

Latchbolt: 3/4" (19 mm) throw, pullman type with automatic dead-latching, stainless steel

Strikes:

• Stainless steel with stainless steel pin and roller - included standard with panic and fire-rated devices

• Surface applied to frame with slotted holes for easy adjustment

• Optional double door strike for use with surface vertical rod and rim devices

#### **SPECIFICATIONS**

Door Thickness: 1-3/4" (44 mm) - Standard

Door Width: • 36" (914 mm) field sizeable to 30" (762 mm) door

• 48" (1219 mm) field sizeable to 36" (914 mm) door

Projection: • 2-7/16" (62 mm) in undogged position

• 1-3/16" (30 mm) in dogged position

Stile Width: • 4-1/2" (114 mm) - minimum stile width required for single door and 5/8" (16 mm) stop

 $\bullet$  4-1/2" (114 mm) - minimum stile width required for double door x surface vertical rod device

with double door strike

• 3-3/4" (95 mm) - minimum stile width required for double door x mullion x 4920 strike

• 5" (127 mm) - minimum stile width required for double doors with 2" (5 1 mm) mullion

• All stile widths are measured from door edge

Notes: • Cylinders sold separately

• Escutcheon and thumbpiece pull plate trim is handed

• Apollo knob is not ADA compliant

• Recommended for use on appropriately reinforced doors

**TRIM** • 4700 Series escutcheon trim for rim device is available with a variety of lever options (p. 51)

• 4700 Series key-in-trim is available with a variety of lever options plus a knob option (p. 53)

Pull plate trimRaised lip pull

• Rim cylinder x optional pull

FINISHES US3, US32D, ALM, DBZ



# 4700 SERIES - STANDARD DUTY SURFACE VERTICAL ROD DEVICE

**WARRANTY** 

Five-year warranty

**FEATURES** 

Certification: Meets life safety codes and fire-safety

requirements. See charts on page 44 for details

and options.

Covers: Cast brass, bronze, stainless steel, zinc

Cover Tube: Painted steel, plated steel, stainless steel

Dogging: Hex dogging feature standard on non-fire labeled doors

End Caps: Painted steel, plated steel, stainless steel

Fasteners: Wood and machine screws

• Thru-bolts supplied standard

• Top - 3/8" (9 mm) throw with automatic dead-latching, stainless steel

• Bottom - 3/8" (9 mm) throw held retracted during door swing, stainless steel

• Stainless steel with stainless steel pin and roller - included standard with panic and fire-rated devices

• Surface applied to frame with slotted holes for easy adjustment

• Optional double door strike for use with surface vertical rod and rim devices

• Optional threshold strike for use with saddle threshold

### **SPECIFICATIONS**

Latchbolt:

Strikes:

1-3/4" (44 mm) - Standard Door Thickness:

Door Width: • 36" (914 mm) field sizeable to 30" (762 mm) door

• 48" (1219 mm) field sizeable to 36" (914 mm) door

Projection: • 2-7/16" (62 mm) in undogged position

• 1-3/16" (30 mm) in dogged position

Vertical Rods:

Rods for 7' (2134 mm) doors - 35-1/4" (895 mm) top rod length
Rods for 8' (2438 mm) doors - 47-1/4" (1200 mm) top rod length
Extension rod kits available, 2' (610 mm) or 3' (914 mm) for doors over 7'

Stile Width: • 4-1/2" (114 mm) - minimum stile width required for single door and 5/8" (16 mm) stop

• 4" (102 mm) - minimum stile width required for double doors

• 4-1/2" (114 mm) - minimum stile width required for double door x Rim device with double door strike

• All stile widths are measured from door edge

Notes: Escutcheon and thumbpiece pull plate trim is handed

Apollo knob is not ADA compliant

• Recommended for use on appropriately reinforced doors

**TRIM** • 4700 Series escutcheon trim for vertical rod device is available with a variety of lever options (p. 51)

• 4700 Series key-in-trim is available with a variety of lever options plus a knob option (p. 53)

• Pull plate trim • Raised lip pull

• Rim cylinder x optional pull

**FINISHES** US3, US32D, ALM, DBZ



# **4700 SERIES - ESCUTCHEON TRIM**

**WARRANTY** | Five-year warranty

**SPECIFICATIONS** 

Escutcheon: 1-11/16" x 7-7/8" (43 mm x 200 mm)

Handing: Specify when ordering

Door Thickness: For doors thicker than 1-3/4" or when used with a shim kit, must specify total door thickness

**LEVERS** Archer, August or Withnell Levers

FINISHES ALM, DBZ, US3, US32D



## **47BE**

**Blank Escutcheon** 

ANSI Function: 14 - Always operable (Passage)



## **47CE**

**Cylinder Escutcheon** 

ANSI Function: 08 - Key locks or unlocks lever

Cylinder: Requires 3902 mortise cylinder with standard cam (sold separately)



# **47DT**

**Dummy Trim** 

ANSI Function: 02 - Pull when device is dogged down



# **47NL**

**Night Latch** 

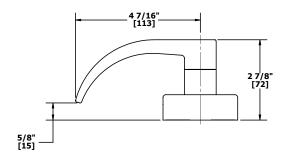
ANSI Function: 03 - Key retracts latchbolt

Cylinder: Requires 3902 mortise cylinder with standard cam (sold separately)



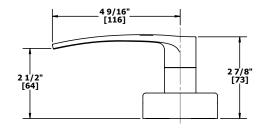
# **4700 SERIES - ESCUTCHEON TRIM - LEVER OPTIONS**



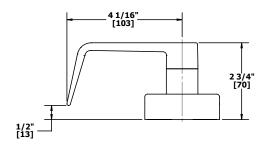


# **AUGUST LEVER**











# 4700 SERIES - KEY-IN-LEVER TRIM

**WARRANTY** Five-year warranty

**SPECIFICATIONS** 

Rose Diameter: | 3-3/8" (86 mm)

Notes: Apollo knob is not ADA compliant. Best used where accessibility is not an issue.

**LEVERS/KNOB** Archer, August or Withnell Levers; Apollo Knob (47KE, 47KN, US32D only)

FINISHES ALM, DBZ, US3, US32D



### **47KD**

**Key-in-Lever Dummy Trim** 

ANSI Function: 02 - Entrance by trim when actuating bar is locked down



## **47KE**

#### **Key-in-Lever Entrance**

ANSI Function: 08 - Entrance by lever; key locks or unlocks lever

Cylinder: • Standard core, C keyway - Standard

• Small Format Interchangeable Core available. 3981 core sold separately.

Keys: Two (2) brass keys per lock



## **47KN**

# **Key-in-Lever Night Latch**

ANSI Function: 03 - Entrance by trim when latchbolt is released by key; key is removable when locked

Cylinder: • Standard core, C keyway - Standard

• Small Format Interchangeable Core available. 3981 core sold separately.

Keys: Two (2) brass keys per lock



## **47KP**

## **Key-in-Lever Passage**

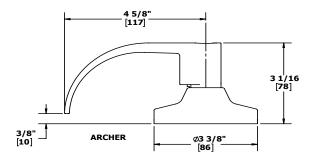
ANSI Function: 14 - Entrance by trim when latchbolt is released by lever; always active, no cylinder



# 4700 SERIES - KEY-IN-LEVER TRIM - LEVER AND KNOB OPTIONS

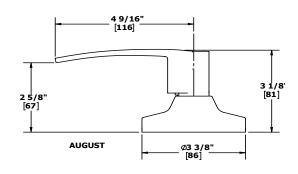
# **ARCHER LEVER**





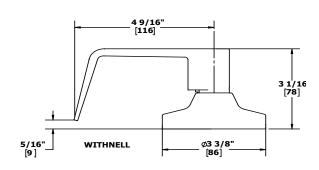
# **AUGUST LEVER**





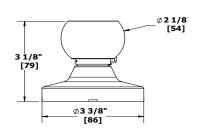
# WITHNELL LEVER





# **APOLLO KNOB**









# **4700 SERIES - PULL PLATE TRIM**

#### **SPECIFICATIONS**

• 47BT and 47PT - 3" x 14-5/8" (76 mm x 371 mm) Escutcheon:

• 47PD and 47PN - 3" x 11" (76 mm x 279 mm)

Projection: 1-3/4" (44 mm)

Pull CTC: 5-1/2" (140 mm)

**FINISHES** • 47PD and 47PN - ALM, DBZ, US3, US32D

• 47BT and 47PT - US32D



# **47PD**

**Dummy Trim** 

ANSI Function: 02 - Pull when device is dogged down



# **47PN**

**Night Latch** ANSI Function:

03 - Key retracts latchbolt

Cylinder: Requires 3901 rim cylinder (sold separately)

Notes: Supplied with retaining cup for use with 161 door prep



# **47BT**

**Passage** 

ANSI Function: 15 - Entrance by trim when latch is released by thumbpiece.

Thumbpiece is always active.

Handing: Specify when ordering



# **47PT**

**Entrance** 

ANSI Function: 05 - Entrance by thumbpiece. Key locks or unlocks thumbpiece.

Requires 3902 mortise cylinder 1-1/8" to 1-3/8" with standard cam (sold separately) Cylinder:

Handing: Specify when ordering



# **4700 SERIES - RAISED LIP TRIM**

# **4700 SERIES - STRIKES**

## **SPECIFICATIONS**

Size: | 3" x 7-3/4" (76 mm x 197 mm)

Projection: 1" (25 mm)

FINISHES ALM, DBZ, US3, US32D



# **47RD**

**Raised Lip Pull Dummy** 

Function: 02 - Pull when device is

dogged down



## **47RN**

**Raised Lip Pull Night Latch** 

Function: 03 - Key retracts latchbolt Cylinder: Requires the use of a Rim

cylinder, 3901, sold separately

Notes: Retaining cup, 2-649-0137,

included for 161 door prep



# 4910

Strike

Included standard with 4700 Series Rim

exit device

Finishes: US32D

Notes: For use with panic- or

fire-rated doors



4911

**Double Door Strike** 

Optional strike for use with 4700 Series Surface Vertical Rod and Rim exit device

Finishes: US32D

Notes: Not for fire-rated doors



4913

**Top Strike** 

Included standard with 4700 Series Surface

Vertical Rod exit device Finishes: US32D

Notes: For use with panic- or

fire-rated doors



4914

# **Bottom Strike**

Included standard with 4700 Series Surface Vertical Rod exit device

Finishes: US32D

Notes: For use with panic- or

fire-rated doors



4915

# **Threshold Strike**

Optional strike for use with surface vertical rod exit device and saddle threshold.

Finishes: US32D

Notes: Not for fire-rated doors





# **4700 SERIES - ACCESSORIES**



# **4917**Bottom Latch Assembly

For use with 4700 Surface Vertical Rod exit device; not for fire-rated doors Finishes: US3, ALM, DBZ, US32D Packaging: One (1) bottom latch with

cover and appropriate

fasteners



# 4931R

## **Shim Kit**

To be used with 4700 Rim exit devices where a glass bead kit or molding would

interfere with exit device

Finishes: US3, ALM, DBZ, US32D Packaging: Two (2) each 1/8" (3 mm)

shims and appropriate

fasteners



# 4917F

# **Bottom Latch Assembly**

For use with 4700 Surface Vertical Rod exit device; for fire-rated doors
Finishes: US3, ALM, DBZ, US32D
Packaging: One (1) bottom latch with

cover and appropriate

fasteners



# 4931S Shim Kits

To be used with 4700 Series Surface Vertical Rod exit devices where a glass bead kit or molding would interfere with

exit device

Finishes: US3, ALM, DBZ, US32D Packaging: Two (2) each 1/8" (3 mm)

shims and appropriate

fasteners



# 4918

# **Top Latch Assembly**

For use with 4700 Surface Vertical Rod

exit device

Finishes: US3, ALM, DBZ, US32D Packaging: One (1) top latch with cover

and appropriate fasteners



# 4933R

# Head Cover

For use with 4700 Series Rim exit device Finishes: US3, ALM, DBZ, US32D

Packaging: One (1) head cover with

four (4) each M4 x 6 mm MS



## 4919

### Top or Bottom Rod Replacement Kit

For use with 4700 Surface Vertical Rod

exit device

Finishes: US3, ALM, DBZ, US32D

Packaging: One (1) each

47-1/4" (1200 mm) rod, rod

guide, rod connector assembly, and appropriate

fasteners



# 4933S Head Cover

For use with 4700 Series Surface Vertical

Rod exit device

Finishes: US3, ALM, DBZ, US32D Packaging: One (1) head cover with

four (4) each M4 x 6 mm MS



# **4700 SERIES - ACCESSORIES**



# 4934

# **Panic-Rated Dogging Plate**

For use with 4700 Series exit devices
Finishes: US3, ALM, DBZ, US32D
Packaging: One (1) each dogging plate

and hex key

Notes: Not for use on fire-rated device



## **END CAP**

For use with all 4700 Series exit devices

Packaging: One (1) each cap and

bracket plus fasteners

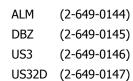
Finishes:



## 4934F

# **Fire-Rated Dogging Plate**

For use with 4700 Series exit devices
Finishes: US3, ALM, DBZ, US32D
Packaging: One (1) each dogging plate





# 24" Extension Rod Kit

For use with 4700 Series Surface Vertical Rod exit device

Finishes: US3, ALM, DBZ, US32D

Packaging: One (1) each

24" (610 mm) extension rod, rod connector, rod guide, plus wood and machine screws

Notes: Threaded on both ends; if cuts are required,

cut the standard top rod on non-threaded end.



# 4937

## 36" Extension Rod Kit

For use with 4700 Series Surface Vertical Rod exit device

Finishes: US3, ALM, DBZ, US32D Packaging: One (1) each 36" (914 mm)

> extension rod, rod connector, rod guide, plus wood and machine screws

Notes: Threaded on both ends; if cuts are required,

cut the standard top rod on non-threaded end.



# 4900 Series



**MULLIONS** 

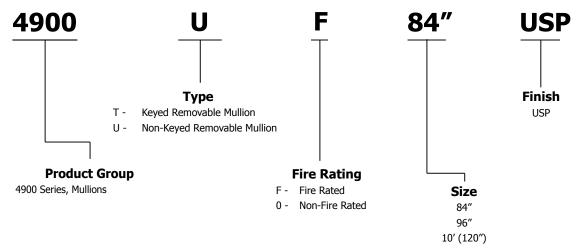
Hager 4900 Series offers both a keyed removable mullion and a non-keyed removable mullion. Both are designed for use on double door openings with 4500, 4600 and 4700 Series Rim devices providing increased security and tighter closure, while providing easy adaptation for full width access. Our 4900 Series Mullions sets include a mullion tube, top and bottom brackets, and fasteners. Fire-rated mullions are UL listed for 3 hours on fire-rated pairs of doors up to 8 feet by 8 feet.





# **4900 SERIES - HOW TO ORDER**

# **4900 SERIES MULLION SETS**



## Notes:

- Keyed removable mullion requires 3901 rim cylinder (sold separately). Fire rated strike and hook kits sold separately (4912 for use with 4500 Series fire-rated exit device and mullion or 4916 for 1. 2. use with 4700 Series fire-rated exit device and mullion).
- 3. Stabilizer kit 4953 (sold separately).



4900T/TF

# **4900 SERIES - KEYED REMOVABLE MULLION**

WARRANTY

One-year warranty

## **SPECIFICATIONS**

Certification:

UL/cUL/Warnock Hersey listed for fire-rated doors up to 8' (2438 mm) x 8' (2438 mm)

Cylinders:

• Solid brass 6-pin rim cylinders (3901, sold separately)

• Standard core, C keyway - Standard

• Small Format Interchangeable Core available (sold separately)

Mullion:

2" x 3" (51 mm x 76 mm) – 11 gauge steel tube

Fasteners:

• Four (4) 8 - 32 x 3/4" (19 mm) FPHMS

Four (4) 5/16" - 18 x 5/8" (16 mm) FPHMS
Two (2) 5/16" - 18 x 1-1/2" (38 mm) FPHMS

• Two (2) 3/8" wedge anchors

Shims:

• 1/2" (13 mm) and 5/8" (16 mm) shims included (top)

• 1/8" (4 mm) shims included (bottom)

Strikes:

• Panic-rated mullions use standard Rim strike supplied with exit device

• Fire-rated strike and hook kit 4912 (4500 or 4600 Series) or 4916 (4700 Series)

must be purchased separately

Top Fitting:

• Dead latch on fire-rated device

• Latching head allows the mullion to be removed in seconds

• Mullion can be locked in place without the use of a key

**FINISHES** 

USP - grey primer only

# 4900T

**Mullion Set** 

Certification: Panic-rated
Opening Height: 84" (2134 mm),

96" (2438 mm),

120" (3048 mm)

Material: 11 gauge steel tube

## 4900TF

**Fire-Rated Mullion Set** 

Certification: UL fire-rated Opening Height: 84" (2134 mm),

96" (2438 mm)

Material: 11 gauge steel tube



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# 4900 SERIES - NON-KEYED REMOVABLE MULLION

**WARRANTY** 

One-year warranty

#### **SPECIFICATIONS**

Certification:

UL/cUL Listed for fire-rated pairs of doors up to 8' (2438 mm) X 8' (2438 mm)

Mullion:

- 2" x 3" (51 mm x 76 mm) 11 gauge steel tube
- Mullion easily removed by loosening top and bottom screws

Fasteners:

- Four (4) each 5/16" 18 x 5/8" FHPMS (top bracket)
- Two (2) each 5/16" 18 x 1-1/2" FHPMS (top bracket)
- Four (4) each 5/16" 18 x 1-1/2" FHMS (bottom bracket)\*
- Four (4) each 5/16" 18 masonry anchors (5/8" diameter x 7/8" long) (bottom bracket)\*\*
- Two (2) each 1/4" 20 x 1-1/4" FHPMS (top fitting)
- Two (2) each 1/4" 20 thru bolts (top fitting)
- Two (2) #10 24 x 3/8" FHPMS (top fitting)
- One (1) 1/4 20 x 3/16" set screw (top fitting)
- Fire-rated device 5/16" 18 x 1-1/4" FHMS,

5/16" - 18 masonry anchors (1/2" diameter x 1-1/2" long)



Shims:

- Two (2) each 1/2" (13 mm) and 5/8" (16 mm) shims included (top)
- Two (2) 1/16" (1.6 mm) shims included (bottom)

Strikes:

- Panic-rated mullions use standard Rim strike supplied with exit device
- Fire-rated strike and hook kit 4912 (4500 or 4600 Series) or 4916 (4700 Series) must be purchased separately

**FINISHES** 

USP - grey primer only

## 4900U

# **Non-Keyed Removable**

**Mullion Set** 

Certification: Panic-rated Opening Height: 84" (2134 mm),

96" (2438 mm),

120" (3048 mm)

Material: 11 gauge steel tube

## 4900UF

# Fire-Rated Non-Keyed Removable

**Mullion Set** 

Certification: UL fire-rated\* Opening Height: 84" (2134 mm),

96" (2438 mm),

Material: 11 gauge stainless steel tube





# **4900 SERIES - STRIKES AND STABILIZER KIT**

# **4900T - ACCESSORIES**



# 4912

# Fire-Rated Strike and Hook Kit for 4500 and 4600 Series

Finishes: US32D

Must order for use with Notes:

fire-rated mullion and fire-rated Rim devices to ensure fire rating



# 4902

# **Top/Bottom Bracket Set**

Certification: Non-fire-rated Function: Keyed Removable

Materials: Steel

Fasteners: Two (2) each MS #5/16

> -18 x 1-1/2" FHP stainless; four (4) each MS #8-32 x 3/4" 100 degree FHP; four (4) each MS #5/16-18 x

5/8" FHP stainless zinc

plated

Cylinder: Rim cylinder, 3901, sold

separately



# 4916

## Fire-Rated Strike and Hook Kit for 4700 Series

US32D Finishes:

Notes: • Must order for use

> with fire-rated mullion and fire-rated Rim devices to ensure fire

rating

• For use with 4900NKR

mullion only



#### 4902F

# Fire-Rated Top/Bottom Bracket Set

Certification: Fire-rated

Keved removable Function:

Materials: Steel

Fasteners: Two (2) each MS

> #5/16 - 18 x 1-1/2" FHP stainless; four (4) each MS #10 x 1" Type

A FHP undercut

stainless; four (4) each MS 10 - 24 x 5/8" FHP undercut stainless; four (4) each MS #5/16 - 18 x 5/8" FHP stainless

zinc plated

Cylinder: Rim cylinder, 3901, sold

separately



# 4953

# **Mullion Stabilizer Kit**

Finishes: US32D

For use with mullion Notes:

and exit devices for added security





# 3901

# **Rim Cylinder**

Conventional cylinder and Small Format Interchangeable Core sold separately. For more cylinder information, please refer to Cylinder, Core & Keying in the Lock

section of this catalog.



# 4907

## **Mullion Tube**

Certification: Fire-rated up to 96"

(2438 mm)

Opening Height: 84" (2134 mm),

96" (2438 mm), 120" (3048 mm)

Finishes: USP grey primer

Materials: Steel



# **4900 SERIES - 4900U ACCESSORIES**





# 4904

# **Top/Bottom Bracket Set**

Certification: Non-fire-rated

Function: Non-keyed removable

Materials: Steel









# 4904F

# Fire-Rated Top/Bottom Bracket Set

Certification: Fire-rated

Function: Non-keyed removable

Materials: Steel



# 4905

# **Mullion Tube**

Certification: Fire-rated

Opening Height: • 84" (2134 mm)

• 96" (2438 mm)

• 120" (3048 mm) USP grey primer

Finishes:

Materials: Steel

Notes: 120" (3048 mm) not

fire-rated