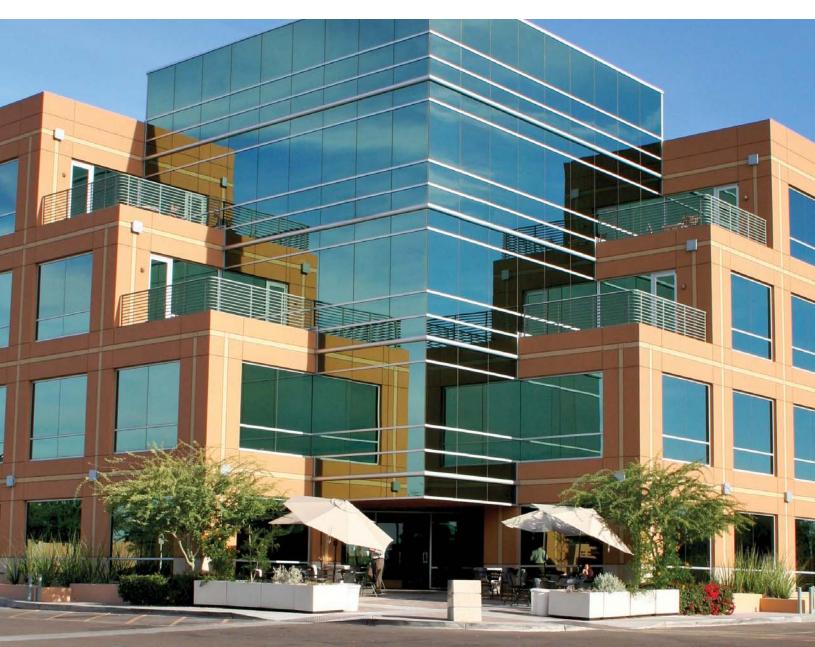


# 4700LN Series

ANSI/BHMA Grade 1 Certified Cylindrical Lever Locks





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# 4700LN Series Cylindrical Lever Locks

Yale\* 4700LN cylindrical locks are the ideal choice for a wide variety of commercial applications where consistent quality, ease of use and installation are required at an economical price. The 4700LN Series is certified to ANSI/BHMA Grade 1 standards and is UL fire-listed for all functions ensuring reliability and peace of mind.

# **Features**



### **Features**

- Available in 19 functions, 3 lever designs, and 9 finishes
- Knurled lever designs available
- Freewheeling trim
- Available with Microshield® antimicrobial coating



## Specifications

Door Thickness	1-3/4" (44mm) to 2" (51mm); 1-3/8" (35mm) or 2-1/4" (57mm), please specify on order
Strike	ANSI 4-7/8" $\times$ 1-1/4" $\times$ 1-1/4" (124mm $\times$ 32mm $\times$ 32mm) lip to center. See page 14 for optional strikes.
Backset	2-3/4" (70mm)
Handing	Non-handed Non-handed
Installation	ANSI/BHMA A156.115(-W)
ANSI/BHMA	Certified ANSI/BHMA A156.2, Series 4000 Grade 1
Warranty	5 year

# Applications And Listings

- UL cUL listed for use on fire doors having a rating up to and including 3 hours
- Windstorm certified refer to local codes 6 Hurricane
- Meets accessibility guidelines for the Americans with Disabilities Act and the requirements of the Uniform Federal Accessibility Standards and ANSI 117.1

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



# **Finishes**



ANSI/BHMA Code Finish Description						
605 Bright Brass, Clear Coated	606 <sup>1</sup> Satin Brass, Clear Coated	612 Satin Bronze, Clear Coated	613E Dark Oxidized Satin Bronze - equivalent			
625 Bright Chrome Plated	626* <sup>1</sup> Satin Chrome Plated	BSP Black Suede Powder Coat	WSP White Suede Powder Coat			

1. Cylinders provided in these finishes only.

Note: Dark Oxidized Satin Bronze, Oil Rubbed (613) and Black Oxidized Bronze, Oil Rubbed (722) finishes are available by Special Product Application Request only. Contact customer service for more information.

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

### How To Order

Trim Design	Function	Hand	Latch	Strike	Cylinder	Door Thickness	Finish
See page 8	See pages 5-7	See page 3	See page 13	See page 14	See pages 11-12	See page 3	See page 4

# Ordering Example

Trim Design	Function	Hand	Latch	Strike	Cylinder	Door Thickness	Finish
AU	4707LN	RH	694	497	1803-47L	1-3/4"	626

<sup>\*</sup>Finish available with MicroShield" antimicrobial coating, additional finishes by special application. Consult factory for availability.

# Lever Trim



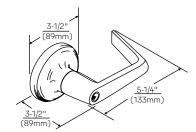
# Augusta AU

**Lever:** Cast Zinc **Rose:** Wrought Brass









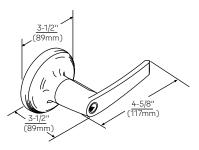
### Monroe MO

**Lever:** Cast Zinc **Rose:** Wrought Brass









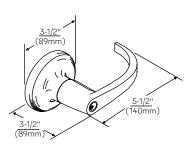
### Pacific Beach PB

**Lever:** Cast Zinc **Rose:** Wrought Brass









Available with large and small format interchangeable core. See page 11-12 for details.

Dimensions shown are in inches (mm).

## **Functions**



#### 4701LN (F75) 4702LN (F76A) 4703LN (F77A) 4704LN (F82A) Passage or Closet Latch Privacy, Bedroom or Bath Lock **Patio or Privacy Lock Entry Lock** For exit doors with limited entry. • For doors that do not require • For lavatory or other privacy • For entrance or office doors. locking. doors. Deadlocking latchbolt. • Deadlocking latchbolt. • Either lever operates latchbolt • Either lever operates latchbolt Either lever operates latchbolt • Either lever operates latchbolt at all times. unless outside lever is locked by unless outside lever is locked (except when outside lever is pushbutton inside.\* by pushbutton inside.\* locked from inside).\* • Button automatically releases Button automatically releases Pushing button in inside when inside lever is turned or when inside lever is turned or lever locks outside lever. door is closed. door is closed. (Automatically releases when • Emergency key inserted and Inside lever always active. inside lever is turned or key is turned in hole in outside lever rotated in locked outside lever.) will unlock door from outside. Latchbolt is operated by key (Emergency key furnished with in outside lever or by rotating lockset. P/N 14-5302-1053inside lever. Inside lever always active. • Inside lever always active. Outside Inside Outside Inside Outside Inside Outside Inside 4706LN (F92) 4705LN (F86) 4707LN (F109) 4708LN (F84) Storeroom or Closet Lock **Service Station Lock Entry Lock** Classroom Lock For use on storeroom, utility, Deadlocking latchbolt. • For entrance, general home or For classroom or utility room exit doors. Either lever operates latchbolt. office doors doors Deadlocking latchbolt. Pushbutton in inside lever locks • Deadlocking latchbolt. • Deadlocking latchbolt. Latchbolt operated by lever outside lever. (Automatically • Either lever operates latchbolt • Either lever operates latchbolt releases when inside lever is inside, key in outside lever. (except when outside lever is (except when outside lever is locked from inside).7 Outside lever always locked.\* turned, door is closed or key is locked by key).7 • Pushing turn button in inside Inside lever always active. rotated in outside lever, except • Inside lever always active. when slotted pushbutton lever locks outside lever. Key releases outside lever. is rotated 90° clockwise to (Automatically releases when retain outside lever in locked inside lever is turned or key is position.)\* rotated in locked outside lever.) Latchbolt operated by key • Outside lever may be retained in outside lever, inside lever in locked position by pushing always active. and rotating turn button 90° clockwise to a horizontal position; not released until turn button is manually returned to the vertical position. • Latchbolt is operated by key in outside lever or by rotating inside lever. Inside lever always active. Outside Inside Outside Inside Outside Inside Outside Inside

<sup>\*</sup> Lever handles are Free-Wheeling in locked position. Shaded area denotes FreeWheeling lever.

# **Functions**



4709LN (F89)	4718LN (F110)	4721LN (F80)	4722LN (F90)
Exit Latch For exit doors with no-entry desired. Deadlocking latchbolt. Outside lever always locked.* Inside lever always active.	Intruder Classroom Lock  For classroom doors.  Deadlocking latchbolt.  Either lever operates latchbolt (except when outside lever is locked by key from either side).  Outside lever remains locked upon egress  Inside lever always active.  (NOTE: Not available with I.C. core cylinders.)	Communicating Lock For communicating or store entrance doors. Deadlocking latchbolt. Either lever operates latchbolt (except when key in either lever locks or unlocks the lever independently of the other).* Should be used only in offices or rooms with multiple entries. (NOTE: Not available with I.C. core cylinders.)	Corridor Lock Deadlocking latchbolt. Either lever operates latchbolt (except when outside lever is locked by inside push-button or key in outside lever). Inside lever always active. When locked by button, the button automatically releases when inside lever is turned or door is closed. When locked by key, the automatic release is made inoperative and must be manually unlocked by key.
Outside Inside	Outside Inside	Outside Inside	Outside Inside
4725LN	4728LN (F111)	4729LN (F113)	4730LN
<ul> <li>Privacy Lock</li> <li>For lavatory or other privacy doors.</li> <li>Either lever operates latchbolt (except when outside lever is locked by inside pushbutton).*</li> <li>Button automatically releases by turning inside lever or closing door.</li> <li>Door can be unlocked, when necessary, by operating outside turnbutton.</li> <li>No emergency key required.</li> <li>Optional flush turnbutton available for outside. Specify option "FTB".</li> </ul>	<ul> <li>Communicating Passage Lock</li> <li>For twin communicating or exit doors where one side operation is required.</li> <li>Also when space is limited between door and switch panel.</li> <li>Deadlocking latchbolt.</li> <li>One lever operation.</li> <li>Blank rose.</li> <li>Should be used only where rooms have more than one entrance.</li> </ul>	Communicating Classroom Lock For twin communicating or closet doors where one side operation is required or space between doors is limited. Deadlocking latchbolt. Inside lever operates latchbolt except when lever is locked by key.* Blank rose. Should be used only where rooms have more than one entrance. (NOTE: Not available with I.C. core cylinders)	Utility, Asylum or Institutional Lock  Deadlocking latchbolt.  Latchbolt operated by key in lever from either side.  Both levers always locked.*  Note: Not available with IC core cylinders.

 $<sup>\</sup>hbox{$^*$ Lever handles are Free-Wheeling in locked position. Shaded area denotes FreeWheeling lever.}$ 

# **Functions**



4739LN (F112)	4755LN	4755LN-D
Communicating Storeroom Lock For twin communicating or closet doors where one side operation is required or space between doors is limited. Deadlocking latchbolt. Latchbolt operated by key only in inside lever. Inside lever always locked.* Blank rose. Should be used only where rooms have more than one entrance.  (Note: Not available with I.C. core cylinders)	Single Dummy Trim For non-operational levers used for decorative trim. Rigid lever.	Pouble Dummy Trim     For non-operational lever used for decorative trim.     Through-bolted.
Outside Inside	Outside Inside	Outside Inside

 $<sup>\</sup>hbox{$^*$ Lever handles are Free-Wheeling in locked position. Shaded area denotes FreeWheeling lever.}$ 

# **Electrified Options**



### Operation

Electric locks provide the ability to electrically lock or unlock the outside trim from a remote location. Fail Safe locks are commonly used in stair towers to release upon fire alarm activation. Fail Secure locks are used on perimeter doors or security doors to allow ingress using access control technologies (proximity cards, keypads, etc.)



### **Features**

- Free Wheeling lever mechanism.
- Self-contained, continuous-duty integral solenoid (allows installation in standard cylindrical prep).
- Available Fail Safe or Fail Secure.
- Available in 12 or 24 volts DC.
- External rectifier available upon request for AC operation.
- Mechanical cylinder override.
- All 4700LN cylinder options.
- Certified ANSI/BHMA Grade 1.
- UL listed.
- 1-year limited warranty.

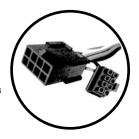
# **Electrical Specifications**

 Continuous duty solenoid 150 mA @ 24VDC 300 mA @ 12VDC

# Electrolynx®

Yale® electrified 4700LN locks are equipped with ElectroLynx connectors. As a standard feature, these connectors link power from the incoming source to electrified locking products, including hinges, locks, exit devices, magnetic holders and strikes.

Note: Electrified door hardware with ElectroLynx connectors requires a compatible number of lead wires attached to the door hinge.



### **Functions**

Outside Inside	Function	Function Description
	4790LN	Fail Safe     Power on locks outside lever.     Inside lever always active.     Latchbolt retracted by key when locked electrically.     Free Wheeling lever when locked electrically.
	4791LN	Pail Secure     Power on unlocks outside lever.     Inside lever always active.     Latchbolt retracted by key when power is off.     Free Wheeling lever when power is off (locked).

Outside Inside	Function	Function Description
	4780LN	Fail Safe  Power on locks outside lever.  Inside lever always active.  Latchbolt retracted either side except when outside lever is locked electrically.  Free Wheeling lever when locked electrically.
	4781LN	Fail Secure  Power on unlocks outside lever.  Inside lever always active.  Latchbolt retracted either side when power is off.  Free Wheeling lever when power is off (locked).

# **Electrified Options**



# BPS Power Supplies By Securitron®

#### Operation

Power supplies are designed to provide reliable filtered and regulated power for long life to a variety of electrified hardware components.

#### **Product Features**

- Individual output circuit breakers
- Regulated and filtered fuse protected outputs
- LEDs monitor zone status (voltage or no voltage)
- Slide switches connect or disconnect load from power (Not available on 1 Amp supplies)
- Internal Back-Up battery charging circuit
- Rugged steel enclosure
- Fire alarm interface

### Listings

• UL CLASS 2

### Applications (use with):

- Fail Safe cylindrical locks
- Fail Secure cylindrical locks

### **Ordering**

Ex: BPS-24-4, BPS-12-3

Model	Input	Output	Application
BPS-24-1	120 VAC	1 Amp @ 24 VDC	2-4700LN
BPS-24-2	120 VAC	2 Amp @ 24 VDC	5-4700LN
BPS-24-4	120 VAC	4 Amp @ 24 VDC	11-4700LN
BPS-12-1	120 VAC	1 Amp @ 12 VDC	1-4700LN
BPS-12-3	120 VAC	2 Amp @ 12 VDC	3-4700LN

Consult factory for additional power supply applications.

Yale recommends McKinney\*, Pemko and Securitron\* for power transfer devices and other electronic accessories.

# Cylinders



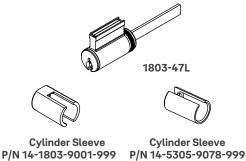
### Cylinder Options

The following selection guide indicates the correct cylinder for each locking segment.

Lo	ckset Series:	Types of Cylinder Mechanisms						
	4700LN	LN Conventional Protected Keyway			Secu	rity		
S	Fixed Core	6-pin	7-pin	6-pin	7-pin	6-pin	7-pin	
Types	Key-In-Lever	1803-47L <sup>1</sup>	N/A	K402 <sup>2</sup>	N/A	5803-47L <sup>1</sup>	N/A	
Cylinder	LFIC	1210	N/A	K800	N/A	5210	N/A	
S	SFIC	A600	A600	K600	K600	N/A	N/A	

Refer to Yale® KeyMark® and/or Cylinders and Keys Catalog sections for all details and how-to-order examples.

- 1. Cylinders require cylinder sleeve P/N 14-1803-9001-999
- 2. Cylinder requires cylinder sleeve P/N 14-5305-9078-999







# 1210

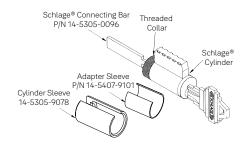
# Yale® KeyMark®

For those applications requiring protected key control, Yale® KeyMark® cylinders guard against unauthorized key duplication. The Yale KeyMark Security Leg® keyway feature increases resistance against picking and impressioning and can easily retrofit into existing systems. For further details and availability, refer to the separate Yale KeyMark catalog.

# 108S Schlage® Cylinder Adapter Kit

Kit used to modify Schlage® cylinder for fit in the 4700LN. P/N 14-5305-0090-048 - 108S

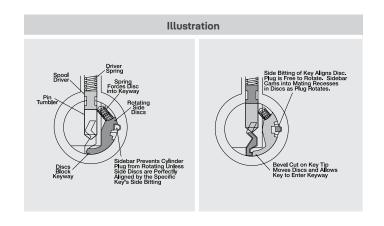
Kit includes tailpiece and sleeve. To order the 108S adapter kit, use an "S" prefix (i.e., S-AU4707LN).



## Security Cylinders

Security cylinders contain two independent locking mechanisms. The first is a traditional 6-pin tumbler mechanism with spool drivers for greatly increased picking resistance.

The second is an innovative 5-tumbler rotating disc mechanism with sidebar engagement. The rotating discs are spring loaded and block the bottom of the keyway.



# Cylinders/Keying



# Other Manufacturer Keyway Cylinder/Cores

Illustration	Туре	Lever	Number of Pins
	Best <sup>®</sup> Keyway Core. Available keyed random, master keyed or uncombinated. Specify keyway A, B, C, D, E, F, G, H, J, K, L or M.	A600	6 or 7 (Specify)
	Schlage <sup>®</sup> C Keyway Cylinder. Available 0-bitted or keyed random.	2803-47L x C	6
	Corbin Russwin L4 Keyway Cylinder. Available keyed random.	3803-47L x L4	6
	Corbin 60 Keyway Cylinder. Available keyed random.	3803-47L x 60	6
	Russwin D1 Keyway Cylinder. Available keyed random.	3803-47L x D1	6
Lever Cylinder	Sargent® LA Keyway Cylinder. Available keyed random.	3803-47L x LA	6
	Schlage® E Keyway Cylinder. Available keyed random.	3803-47L x E	6

Notes: The 2803 and 3803 cylinders require a cylinder sleeve (P/N 14-1803-9001-999) to fit the 4700LN lockset.

# Levers Accepting SFIC And Other Manufacturers' Large Format Interchangeable Cores

Illustration	Cylinder Type	Prefix	Number of Pins
	SFIC (Accepts all Small Format Interchangeable Cores)	B (i.e. B-AU, B-MO, B-PB)	6 or 7
	Medeco°, ASSA° (LFIC)	M* (i.e. M-AU)	6
(0)	Schlage® (LFIC)	SI (i.e. SI-AU, SI-PB)	6

<sup>\*</sup>Medeco\*, ASSA\* option available only with AU lever. (Note: For Medeco 32 series cores.)

LFIC = Large Format Interchangeable Core

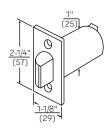
SFIC = Small Format Interchangeable Core

## Latchbolts



### Plain Latchbolts

Model No. 693 supplied standard with all 4700LN series locksets without locking function. Standard plain latchbolt has a 2-1/4" (57mm) x 1-1/8" (29mm) beveled front with a 2-3/4" (70mm) backset and a 1/2" (13mm) bolt throw. Optional latchbolts with a greater backset/throw available to special order.

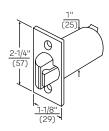


Model No.	Front	Backset	Throw	Front Width	Latch Diameter
693	Beveled	2-3/4" (70mm)	1/2" (13mm)	1 -	1" (25mm)
F693	Flat	2-3/4" (70mm)	1/2" (13mm)	1 -	1" (25mm)
3693	Beveled	3-3/4" (95mm)	1/2" (13mm)	1-1/8" (29mm)	1" (25mm)

Note: for 3/4" throw applications, only deadlocking latchbolts available.

### Deadlocking Latchbolts

Deadlocking latchbolt Model No. 694 supplied standard with all 4700(LN) series locksets with locking function. Standard deadlocking latchbolt has a 2-1/4" (57mm) x 1-1/8" (29mm) beveled front with a 2-3/4" (70mm) backset and a 1/2" (13mm) bolt throw. Optional latchbolts with a greater backset/throw available to special order.



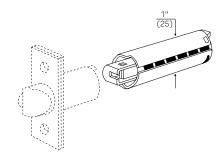
Model No.	Front	Backset	Throw	Front Width	Latch Diameter
694	Beveled	2-3/4" (70mm)	1/2" (13mm)	1-1/8" (29mm)	1" (25mm)
F694	Flat	,	1/2" (13mm)	,	1" (25mm)
3694	Beveled	,	1/2" (13mm)	,	1" (25mm)
480B	Beveled	- /	3/4" (19mm)	, -	1" (25mm)
F480B	Flat	- /	3/4" (19mm)	, -	1" (25mm)
3480B	Beveled	,	3/4" (19mm)	,	1" (25mm)

Note: for 2-3/8" backset, contact Customer Support.

### Backset Extension Links

All 4700LN Series locksets are supplied with standard latchbolts of 2-3/4" (70mm) backset; optional latchbolts with a 3-3/4" (95mm) backset are available to special order for lever locksets only. Extension links are also available for attachment to 2-3/4" (70mm) or 3-3/4" (95mm) backset latchbolts to extend the backset to the desired length.

Desired Backset	Latchbolt Backset	Order Extension List No.
5" (127mm)	2-3/4" (70mm)	481DL
6" (152mm)	3-3/4" (95mm)	481
7" (178mm)	2-3/4" (70mm)	482
8" (203mm)	3-3/4" (95mm)	482
18" (46cm)	2-3/4" (70mm)	484
19" (48cm)	3-3/4" (95mm)	484



Other extension links up to 42" (1.06m) backset are available to special order.

# **Attaching Screws**

(Not regularly supplied when latchbolts ordered separately).

For all latchbolts

 $\#8\text{-}8\text{-}32\times3/4\text{"}$  (19mm) Phillips flat head combination wood and machine screws

Brass - P/N 81-2022-0416\*

Bronze - P/N 81-2032-0416\*

#### Hollow Metal Doors

#8 - 32 x 1" (25mm) Phillips flat head machine screw Brass - P/N 81-0022-0420\* Bronze - P/N 81-0032-0420\*

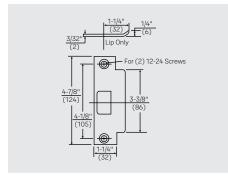
13

<sup>\*</sup>Specify finish required.

# Strikes

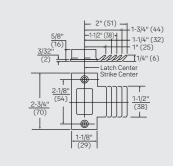


Yale\* 4700LN locks are available with a variety of strike options. All strikes are located on the same vertical and horizontal center lines as the latchbolt. Some strikes are available in a variety of lip lengths to accommodate varying thickness of doors and frames. To determine the proper length of the lip, measure from the center line of the strike to the edge of the jamb, accounting for any interfering trim (i.e. wood molding) and then add 1/4" (6mm) for curved lip. All strikes are reversible. Strikes are fabricated of either brass, bronze or stainless steel, depending on the lockset trim finish. When ordering strikes separately, specify the finish required.



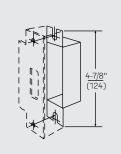
#### Model No. 497 ANSI Strike (Standard)

For door and frames with ANSI/BHMA A156.115 preparations. 4-7/8" x 1-1/4" x 1-1/4" (124mm x 32mm x 32mm) lip to center supplied standard. 1-1/8", 1-1/2", and 1-3/4" lip lengths available by special order. Available with optional 202 Strike Box. Specify 497 x 202.



### Model No. 371 T-Strike (Optional)

2-3/4" x 1-1/8" x 1-1/4" (70mm x 29mm x 32mm) lip to center available as an option. 1", 1-1/2", 1-3/4" and 2" curved lip lengths available by special order. Wrought strike box supplied.



#### Model No. 202 Strike Box (Optional)

Available to special order. Specify 497 x 202.

# **Attaching Screws**

(Not regularly supplied when strikes ordered separately).

#### For Model No. 497

 $\#12-24 \times 1"$  Phillips flat head combination wood and machine screws.

P/N 81-2012-0620

14

#### For Model No. 371

 $\#8\text{-}32\times3/4"$  (19mm) Phillips flat head combination wood and machine screws. P/N 81-2012-0416

# Notes





# Trusted every day

#### Phone

1-855-557-5078

**Customer Service Email** 

customerservice.yale@assaabloy.com

**Technical Product Support Email** 

techsupport.yale@assaabloy.com

**Order Entry Email** 

orders.yaleus@assaabloy.com

Fax

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**ASSA ABLOY Americas International** 

Tel: 1-905-821-7775 Fax: 1-905-821-1429 assaabloyai.com

#### MicroShield®

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

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



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

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

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