

# 80 Series

## 80 Series Exit Devices Features

**SARGENT**  
**ASSA ABLOY**

SARGENT manufactures a full line of exit devices including vertical rod, rim and mortise devices for both standard and narrow stile doors. These devices provide the best combination of simplicity, strength, durability, aesthetics and innovation and are perfect for applications in commercial office buildings, medical and educational institutions.

### Simplicity

- Easy installation!
- Maintenance-free design
- Few moving parts – less wear
- Modular construction
- Rekeying is accomplished without removing device from door

### Aesthetics

- Clean, simple, aesthetically pleasing design
- “True” architectural hardware finishes consistent with BHMA/ANSI standards
- Coastal Series and Studio Collection Levers adds a touch of elegance

### Security

- Double cylinder functions available
- Torx® and spanner screws
- Anti-vandal trim options
- Master keying with SARGENT Security Key systems available (V-10, Signature, Keso F1, Keso and XC)

### Strength & Durability

- Made of finest component materials
- Heavy duty mounting construction
- Built to withstand abusive conditions
- Available options to meet Dade County Protocols and other local hurricane code requirements for high wind load and missile impact\*
- 5 Year warranty
- \* Consult factory

### Innovation

- SARGENT introduces Beacon™, a next generation exit device that creates a clearer pathway to safety during an emergency. The combination of audible and visible alerts built into the exit device makes Beacon unique – and effective.
- Broad offering of electro-mechanical solutions for the most demanding access/egress control applications
- **MicroShield™** anti-microbial finish coating offers a new level of protection
- **SARGuide™** exit device contains an electroluminescent touchpad to enhance the visibility of exit locations in dark or smoke-filled passages and effectively improve the safety of any public building
- CTL (Center and Top Latching) Vertical Rod Devices offer less bottom rod convenience with true center latching for added security



### MicroShield™

### Microshield™ Coating



- This revolutionary finish coating available on all SARGENT product lines, utilizes a silver-based antimicrobial compound from Agion® Technologies
- The MicroShield protection is now available integrated within the 80 Series touch pad as well as the finish coating. MicroShield lasts for the life of the finish
- MicroShield coating permanently suppresses the growth of bacteria, algae, fungus, mold and mildew. It is effective against a broad spectrum of bacteria
- Non-toxic and completely safe. The Agion antimicrobial compound is EPA and NSF approved and FDA listed for use in medical and food preparation equipment
- Applications: Anywhere there is need for a clean environment (hospitals, laboratories, schools, medical centers, daycare, food processing etc.)

### MicroShield™

As part of their promise to provide innovative solutions to their customers, ASSA ABLOY Group companies offer the MicroShield™ technology, a silver-based antimicrobial coating designed to stem the spread of germs and bacteria.

MicroShield™ is a trademark of Yale Security Inc., an ASSA ABLOY Group company.



The Agion antimicrobial is not intended as a substitute for good hygiene. Coated products must still be cleaned to insure 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

### SARGuide™

- The SARGuide illuminated exit device increases visibility of exit locations in dark or smoke-filled passages, supplementing existing codes for egress lighting
- SARGuide utilizes state-of-the-art FLATLITE electroluminescent lighting from E-Lite Technologies Inc.
- Green-blue electroluminescent light provides 3 to 5 times the visibility of other lights

- Can be wired for continuous operation or activation by fire alarm system
- Exit devices are placed low enough on a door to provide an extended window of opportunity for safe emergency egress
- Supplements building exit signs required by code
- Intuitive operation. Integral “EXIT” signage guides users directly to the means of egress
- UL Listed for use on panic (UL 305) and fire-rated (UL10C) exit devices
- Available with mechanical, and many electro-mechanical, exit devices
- See pages 56 & 57 for information on the TL- & PL- offerings



# 80 Series

80 Series Exit Devices  
UL Fire Door Ratings and  
Openings Sizes

**SARGENT®**  
**ASSA ABLOY**

## Maximum Door Opening-Fire Doors

Type	Exit Device	Door Material	Single Door	Double Door Applications						
				with 12-HC980 or 12-980 or 12-L980 or 12-HCL980 Mullion	with 12-HD980 Mullion	VR/VR Doors Swing Same Direction	SVR/Mortise Doors Swing Same Direction	CVR/Mortise MD Doors Swing Same Direction	CVR/Mortise WD Doors Swing Same Direction	VR/VR Double Egress
Rim	12-8800	Metal	3 Hour 4' x 10'	3 Hour 8' x 8'	3 Hour 8' x 10'	—	—	—	—	—
	12-8800	Wood	3 Hour 4' x 10'	3 Hour 8' x 8'	3 Hour 8' x 10'	—	—	—	—	—
Mortise Lock	12-8900	Metal	3 Hour 4' x 10'	—	—	—	3 Hour 8' x 8'	3 Hour 8' x 10'	—	—
	12-8900	Wood	3 Hour 4' x 10'	—	—	—	3 Hour 8' x 8'	—	3 Hour 8' x 9'	—
	12-8300	Metal	3 Hour 4' x 10'	—	—	—	—	3 Hour 8' x 10'	—	—
	12-8300	Wood	3 Hour 4' x 10'	—	—	—	—	—	3 Hour 8' x 9'	—
SVR	12-FM8700	Metal	3 Hour 4' x 7'	—	—	3 Hour 6' x 7'	—	—	—	—
	12-8700	Metal	—	—	—	3 Hour 8' x 8'	3 Hour 8' x 8'	—	—	3 Hour 8' x 8'
	12-8700	Wood	—	—	—	3 Hour 8' x 8'	3 Hour 8' x 8'	—	—	3 Hour 8' x 8'
	12-NB8700	Metal	—	—	—	3 Hour 8' x 8'	—	—	—	3 Hour 8' x 8'
	12-NB8700	Wood	—	—	—	3 Hour 8' x 8'	—	—	—	3 Hour 8' x 8'
SVR/Mortise	12-SP8700	Metal	90 Min 4' x 10'	—	—	—	—	—	—	—
	12-SP8700	Wood	90 Min 4' x 9'	—	—	—	—	—	—	—
	12-PP8700 & 12-PR8700	Metal	—	—	—	3 Hour 8' x 10'	—	—	—	3 Hour 8' x 10'
	12-PP8700 & 12-PR8700	Wood	—	—	—	3 Hour 8' x 8'	—	—	—	3 Hour 8' x 8'
CVR	12-MD8600	Metal	—	—	—	3 Hour 8' x 10'	—	3 Hour 8' x 10'	—	3 Hour 8' x 10'
	12-NB-MD8600	Metal	—	—	—	3 Hour 8' x 10'	—	—	—	3 Hour 8' x 10'
	12-WD8600	Wood	—	—	—	90 Min 8' x 9'	—	—	3 Hour 8' x 9'	3 Hour 8' x 9'
	12-NB-WD8600	Wood	—	—	—	90 Min 8' x 9'	—	—	—	3 Hour 8' x 9'
	12-MD8400	Metal	—	—	—	3 Hour 8' x 10'	—	3 Hour 8' x 10'	—	3 Hour 8' x 10'
	12-NB-MD8400	Metal	—	—	—	3 Hour 8' x 10'	—	—	—	3 Hour 8' x 10'
CVR/Mortise	12-SP8600	Metal	3 Hour 4' x 10'	—	—	—	—	—	—	—
	12-SP8600	Wood	45 Min 4' x 9'	—	—	—	—	—	—	—
	12-PP8600 & 12-PR8600	Metal	—	—	—	3 Hour 8' x 10'	—	—	—	3 Hour 8' x 10'
	12-PP8600 & 12-PR8600	Wood	—	—	—	90 Min 8' x 8'	—	—	—	45 Min 8' x 8'
	12-LS8600	Metal	3 Hour 4' x 10'	—	—	—	—	—	—	—
	12-LP8600 & 12-LR8600	Metal	—	—	—	3 Hour 8' x 10'	—	—	—	3 Hour 8' x 10'

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# 80 Series

8800 Rim Exit Device

**SARGENT®**  
**ASSA ABLOY**

## 8800 Series Rim Exit Device



### 8800 Features

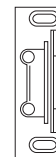
- Designed for standard width stile applications on wood and metal doors
- Most functions are non-handed
- Single point rim latching device
- Single door & double door applications with mullions
- Quiet operation and solid security
- Devices are ANSI A156.3 – 2001 Grade 1
- UL Fire and Panic listed

### Specifications

### 8800 Series Rim Exit Device

Door Types	Wood or metal 1 3/4" (44 mm) minimum thickness. For doors over 1-3/4" to 2-1/4" thick, specify thickness and order as 31- prefix
Door Widths	E Rail - 24" to 32" (61cm to 81cm) No cutting required for 32" door F Rail - 33" to 36" (84cm to 91cm) No cutting required for 36" door J Rail - 37" to 42" (94cm to 107cm) No cutting required for 42" door G Rail - 43" to 48" (110cm to 122cm) No cutting required for 48" door
Strike	649 Standard Black Nylon Coated
Optional Strikes	642, 644 and 613
Dogging Feature	Hex key dogging standard; Cylinder dogging available (16-)
Electric Options	AL- Alarmed Exit Device - Page 56 BT- Beacon™ Exit Device - Page 55 PL- SARGuide Photoluminescent Coated Push Rail - Page 56 TL- SARGuide Illuminated Touchpad - Page 57 53- LX Latchbolt Monitor Switch - Page 57 54- Outside Lever Monitoring - Page 62 55- Request-to-Exit Signal - Rail Monitoring - Page 57 56- ELR Remote Latch Retraction - Page 58 57- Delay Egress Exit to be used in conjunction with Electromagnet - Page 60 58- Electric Dogging - Page 61 59- Electroguard – Self Contained Delayed Egress Device - Page 61
Mounting Fasteners	Supplied standard with wood and machine screws Available with through-bolts and mortise (sex) nuts
Latch Bolt	Stainless steel, 3/4" (19mm) throw
Device Centerline from Finished Floor	41" (1041 mm) for Standard Applications
Center Case Dimensions	8-3/8" (213mm) x 2-5/8" (67mm)
Projection	Pushbar Neutral – 3" (76 mm) Pushbar Depressed – 2-1/8" (54 mm)
Fire Exit Hardware	See Chart – Page 3

### 649 Strike



- Surface applied
- Panic & Fire Rated
- Black nylon coated

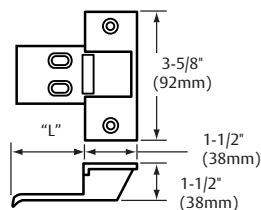
### 688 Trim Retrofit Kit



- A SARGENT 8800/8888 Rim Exit x ET with a 688 Trim Retrofit Kit will easily replace Von Duprin's 98/99 Series Exit with no additional door prep. **Note:** 688 Trim Kit only required when replacing Von Duprin trim.

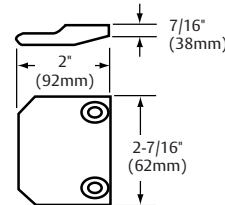
### Alternate Strikes For 8800 Rim Devices

#### 642 Strike



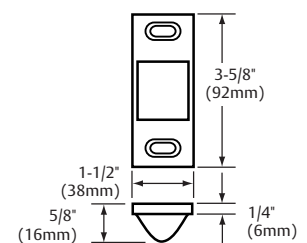
- Mortised. Dimension "L" equals door thickness plus 1/2" (13mm). Black nylon coated on lip only.

#### 644 Strike



- Surface applied. For use on pairs of doors without mullion. Ductile Iron. Black nylon coated.

#### 613 Strike



- Half mortised. Black nylon coated.

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# 80 Series

Prefixes, Descriptions and Rail Sizes

## Cylinder Notes:

- 16- Cylinder Dogging uses a 41 inside cylinder with 97 ring
- Removable core and 70 prefix cylinders require a 97-0351 cylinder rings for 700 Series ET Controls and 94-0153 ring for 100 & 300 Series Aux controls
- Less cylinder - SARGENT supplies standard blocking rings. Specify if using competitor cylinders
- When ordering BEST cylinders for use in SARGENT Exit Devices, use the following BEST product numbers:  
Mortise cylinder: 1-E74XC208  
Rim cylinder: 1ESPL-7-AO5994

## Notes For Prefixes

- 31- Specify door thickness and specify panel thickness and location, if used
- 31- prefix not available, HC8700, FM8700, PP, PR & SP8700, PP, PR & SP8600, LP, LR & LP8700,
- 31- Prefix requires extended lip strike for 8300 & 8900 Series (supplied).
- SC- Prefix not available in 57- Prefix, (SC- Cylinders are only available in 41 length cylinders and Rim cylinders)
- SC-, SE- & VC- Prefixes not available with the following: 8904, 8916, 8944, 8975, 8976, 8866, 8304, 8344, 8375 & 8376 (SC- & SE- #41 cylinders only & VC- #42 cylinders only)
- + 11- Prefix not available with 10-, 10-UL-, 22-, 60-, 63-, 64- SE, SC, 82-, F1-82-, 82-, F1-83- & 84- prefixes.
- + +16- Prefix not available with 12-, 57, 59- or AL- prefix
- \* 53- Not available on PP/PR/SP8600 & LP/LR/LS8600 Exit Devices
- \*\* 59- & BC59- are not available with 16-, 55-, 56-, 57-, 58- prefixes and on NB8700, PP/PR/SP8600 & LP/LR/LS8600 Exit Devices
- \*\*\* BT- Not available FM8700 Devices & theses prefixes 16-, 56-, 57-, 59-, BC59- and AL

## Suffix

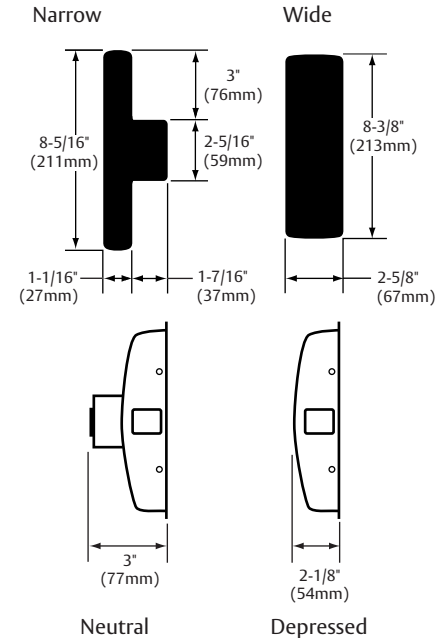
CPC Clear Powder Coat – Recommended for exit devices used in full exterior application and highly corrosive areas with 32 and 32D finishes.

How to order: 8313F x ETL x 32D x CPC

## Prefixes Available

10	Signature System
10-UL	Signature, meets UL437 cylinder
+11	SARGENT XC Key System
12	UL Fire Label Exit Devices
14	Sliding bolt bottom case for 8700
+ +16	Cylinder lockdown feature
19	Pushbar without Lexan touchpad
21	Construction Keying Conventional, XC and Signature Series
22	Construction Keying Conventional Cylinders (Existing Systems Only)
23	ANSI flat lip strike (8300, 8900, including 12- Prefix)
*31	Doors over 1-3/4" and/or Panels
36	6 Lobe security head screws
37	Spanner head screws
43	Flush End Cap
*53	Latchbolt monitoring switch
54	Internal micro switch in ET Control
55	Signal Switch in Rail (Request to Exit)
56	Remote Dogging/Latch Retraction
56-HK	Remote Latch Retraction with manual Hex Key dogging
57	Delayed Egress (Magnet ordered separately)
58	Electric Dogging
**59	Electroguard® Self Contained Delayed Egress Device
**BC59	Electroguard Boca Code (Door Status Switch required)
60	Disposable Construction Core
63	SARGENT Removable Core cyl. Includes masterkeying, grand masterkeying
64	SARGENT Removable Construction Core cylinder
65-73	6 Pin Uncombined Small Format Interchangeable Cores
65-73-7P	7 Pin Uncombined Small Format Interchangeable Type Cores
70	Exit device to accept Small Format Interchangeable Cores - no core provided
72	Exit device to accept Small Format Interchangeable Cores with Construction Core provided
73	Small Format 6-Pin interchangeable core (refer to CK-8 for available keyways)
73-7P	Small Format 7-pin interchangeable core, (refer to CK-8 for available keyways)
75	Warning inside, Abrasive strip on rail
76	Knurled Outside Lever
77	Warning inside and outside, abrasive strip on rail, abrasive coating on Lever
81	Cylinder to accept Keso (83) and Keso F1 (F183) removable core – no core provided
F1-82	Keso Security Cylinder with Front Profile (Patent Pending)
82	Keso Security Cylinder
F1-83	Keso Security Removable Core Cylinder with Front Profile (Patent Pending)
83	Keso Security Removable Core Cylinder
84	Keso Security Removable Construction Core Cylinder
AL	Alarmed Exit
BR	Bump Resistant Cylinder (Available with Conventional & XC Cylinders Only)
***BT	Beacon- Emergency Audio & Visual egress system with a self contained Laser, Flashing LEDs & Audio alert
GL	Guarded Latchbolt for 8800
NB	No Bottom Rod (Not available with 59- & BC59- )
PL	SARGuide™ PL – Photoluminescent Coated Push Rail – (Touchpad eliminated)
SC, SE	Exit Device furnished in Schlage C or E Keyway (specify)
SG	MicroShield - Antimicrobial clear powder coat
TL	SARGuide Illuminated touchpad
VA, VC, VS, VC, VS	SARGENT V-10 Cylinders See V-10 Cylinder Section

## Cover Dimensions and Touchbar Projections



## Rail Sizes

SARGENT offers four sizes of rails to accommodate 32", 36", 42" and 48" doors. These rails can be cut for smaller doors as specified in the chart below.

SARGENT will cut all rails to size if door width is specified when the hardware is ordered.

Stock Size	Door Widths	Remarks
E	24" to 32" (61cm to 81cm)	No cutting required for 32"(81cm) door
F	33" to 36" (84cm to 91cm)	No cutting required for 36"(91cm) door
J	37" to 42" (94cm to 107cm)	No cutting required for 42"(107cm) door
G	43" to 48" (110cm to 122cm)	No cutting required for 48"(122cm) door

## LP, LR & LS8600 Rail Sizes

L Rail	36" (91cm)	No cutting required
M Rail	42" to 44" (107cm to 112cm)	No cutting required
N Rail	46" to 48" (117cm to 122cm)	No cutting required

**Note:** For additional information on Electrified Exit Devices, see the Electrified Exit Device catalog at [www.sargentlock.com](http://www.sargentlock.com)

### How to Order Exit Devices

12-	89	75	F	ETMR	12VDV	RHR	32D	36"	84"	41"
Prefixes	Device Type	Function	Rail Size	Trim	Voltage	Hand Finish	Finish	Door Width	Opening Height	AFF
Available Prefixes Listing Page 63	89 - Mortise	04 - Night Latch	E 24"-32"	For ET trim	12VDC	RHR	Available Finishes page 65	If door width is supplied rails will be cut to size	Required for Vertical Rod Exit Devices	Center Line of Rail Above Finish Floor 41" Standard
	WS89 - Mortise	06 - Night latch	F 33"-36"	specify ET followed by Lever design, See pages 46-48	24VDC	LHR				
	88 - Rim	10 - Dummy	J 37"-42"	Rail Sizes Listed Below are for LP, LR & LS Devices Only For Thumb Piece Trims and Pulls specify Trim Designation as specified by Device Type	Voltage required for Solenoid Controlled Functions - 70, 71, 73, 74, 75 & 76					
	HC88 - Rim	13 - Classroom	G 43"-48"							
	WS88 - Rim	15 - Passage								
	87 - SVR	16 - Entrance								
	NB87 - SVR	28 - TP Passage								
	HC87 - SVR	40 - FW Dummy								
	FM87 - SVR	43 - FW Classroom	L 36" Door							
	MD86 - CVR	44 - FW Night Latch	M 42"-44"							
	NB-MD86 - CVR	46 - FW Night Latch	N 46"-48"							
	WD86 - CVR	62 - TP Night Latch								
	NB-WD86 - CVR	63 - TP Classroom								
	85 - Rim Narrow	66 - TP Entrance								
	84 - CVR Narrow	70 - Solenoid Fail Safe w/Cyl								
NB-84 - CVR Narrow	71 - Solenoid Fail Secure w/Cyl									
83 - Mortise Narrow	73 - Solenoid Fail Safe									
PP87 - CTL SVR	74 - Solenoid Fail Secure									
PR87 - CTL SVR	75 - Solenoid Fail Safe w/Cyl									
SP87 - CTL SVR	76 - Solenoid Fail Secure w/Cyl									
PP86 - CTL CVR										
PR86 - CTL CVR										
SP86 - CTL CVR										
LP86 - CTL CVR										
LR86 - CTL CVR										
LS86 - CTL CVR										

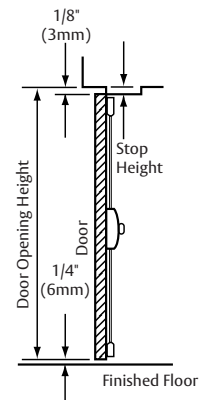
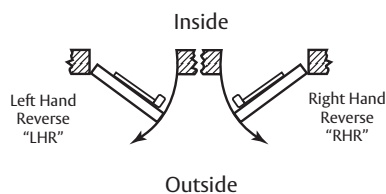
#### Legend

- AFF - Above Finish Floor
- CTL - Center & Top Latching Exit
- CVR - Concealed Vertical Rod
- ET - SARGENT External Lever Trim
- FM - FEMA
- FW - Freewheeling Trim
- HC - Hurricane Code
- MD - Metal Door
- NB - No Bottom Rod
- SVR - Surface Vertical Rod
- TP - Thumb Piece Trim
- WD - Wood Door
- WS - Windstorm

#### Mounting Heights

- 41" (1041mm) from finished floor for standard application
- 38" (965mm) from finished floor for elementary schools and to meet local accessibility standards when a 100 or 300 Series Auxiliary Control is used (38" AFF must be specified)

#### Hand



#### How to order 700 Series ET Trim

Specify Function, Suffix, Lever, Finish and Handing (e.g., 713-8 ETL x 26D x RHR)

**Note:** Suffix requirements are based on the type of exit device being used:

- 700-8 is for 8800, 8500, NB8700, PP, PR & SP8700 devices, except with these functions: 04, 10, 16, 40 & 44
- 700-6 is for all PP, PR, SP, LP, LR & LS8600 devices
- 700-4 is for all WD & MD 8600 and 8400 devices
- 700 with No Suffix for all 8900, 8300, 8700 with bottom rod and also for 8800, 8500, NB8700, PP, PR & SP8700 devices with 04, 10, 16, 40 & 44 functions

# 80 Series

Architectural Specifications,  
Finishes and Finish Care

**SARGENT®**  
**ASSA ABLOY**

## 2.01 EXIT DEVICES

- A. Exit devices shall be 80 Series push rail devices as manufactured by SARGENT Manufacturing Company, New Haven, CT.
- B. Exit devices shall be certified to meet or exceed the requirements of ANSI/BHMA A156.3 Grade 1.
- C. Exit devices shall be listed by Underwriters Laboratories for panic and bear the UL label for life safety in full compliance with NFPA 80 and NFPA 101. Exit devices for fire labeled doors shall be UL listed as "Fire Exit Hardware".
- D. Provide standard hex key dogging on non fire-rated exit devices, with cylinder dogging (i.e., SARGENT 16- prefix) as an option.
- E. Exit devices shall comply with UL10C and UBC 7-2 positive pressure requirements.
- F. Construction:
1. Chassis shall be of heavy duty cast design with one piece drawn nonferrous removable covers matching the material of the push and mounting rails.
  2. Stamped steel chassis are not acceptable.
  3. Mounting rails shall be formed from a solid single piece of stainless steel, brass or bronze no less than 0.072 inches thick.
  4. Push rails shall be constructed of 0.062 inch thick material in the same manner as the mounting rail. Painted or anodized aluminum shall not be considered heavy duty and are not acceptable.
  5. Provide protective Lexan touchpad on the exit device push rail to prevent scratches and serve as a visible guide to the user.
  6. Metal end caps shall be formed from the same base metal as the push and mounting rails.
- G. Exit devices shall have a maximum of 3 inches projection from the face of the door in the non-dogged position. When in the dogged position, the device shall have no more than a 2-1/8 inch projection from the door face.
- H. The design of the exit device shall eliminate the necessity of removing the device from the door for standard maintenance or keying changes.
- I. The device chassis shall be mounted and operable without the need of the rail or the chassis cover.
- J. Trim shall be through-bolted.
- K. Devices shall be available with matching trim for both wide and narrow stile doors, including electrified functions when required.
- L. Exit device operating lever trim shall withstand 1000 inch pounds of torque without allowing access.
- M. Lever trim shall be available in architectural finishes and designs to match that of the locksets specified.
- N. Exit devices shall have a five year limited warranty.
- The following guidelines should be referenced regularly and as required for proper appearance and longevity of finish.

## Finish

SARGENT#	BHMA#	Description	How to clean	Avoid these cleaners
3	605	Bright brass, clear powder coat	Mild non-abrasive detergent with damp cloth or sponge	Abrasives cleaners, bleach solvents, steel or bronze wool
4	606	Dull brass, clear powder coat		
9	611	Bright bronze		
10	612	Dull bronze, clear powder coat		
10B	613	Antique bronze, oiled	Lemon oil polished with dry cloth	Abrasives cleaners, bleach solvents, steel or bronze wool
10BL	-	Oxidized satin bronze-lacquered	Mild non-abrasive detergent with damp cloth or sponge	Abrasives cleaners, bleach solvents, steel or bronze wool
15	619	Satin nickel plate		
20D	-	Statuary bronze, dark		
26	625	Bright chrome		
26D	626	Dull chrome		
32	628	Bright stainless steel		
32D	630	*Dull stainless steel	Plastic pad or bronze wool	Cleaners, solvents, bleach, steel wool

### \*To avoid discoloration and pitting:

- Keep stainless steel away from contact with other metals
- Avoid cleaning with mineral acids or chlorine products
- Avoid cleaning with abrasive products like sandpaper or steel wool

### To maintain the finish:

- Remove any contamination before damage occurs
- Protect with a metal polish or car wax

### CPC – Clear Powder Coat

For use in pool areas, offshore applications and highly corrosive applications, the clear powder coat eliminates need for cleaning and maintenance of finish. Applied over 32D only.