

# Specialty Hardware



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in door opening solutions

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## ML2000 and ML20900 Mortise Locks with BHSS Trim\*

Part of the Behavioral Health Series™ of products, the ML2000 mortise lock with BHSS trim has tapered surfaces and an integrated lever and escutcheon, bringing an elegant style to behavioral health environments. The ML2000's heavy-duty design and ANSI/BHMA Grade 1 strength help it to withstand abuse in any environment.

### Features

#### Handing

Handed - Must specify on order.

#### Door Thickness

1-3/4" (44mm) standard.

Optional door thicknesses available; see Quick Codes, page 7.

#### Backset

2-3/4" (70mm).

#### Lockcase

Heavy-gauge steel, 5-7/8" (149mm) x 4" (102mm) x 15/16" (24mm).

#### Front

Heavy-gauge steel, 8" (203mm) x 1-1/4" (32mm) x -3/32" (2mm). Accommodates flat doors and doors beveled 1/8" (3mm) in 2" (51mm).

#### Armored Front

Wrought stainless steel attached by machine screws to lockcase front. Utilizes security Torx® screws. Torx® screws come standard.

#### Latchbolt

2-piece mechanical with anti-friction insert, 5/8" (16mm) x 1" (25mm) x 3/4" (19mm) throw.

#### Auxiliary Latchbolt

9/16" (14mm) effective throw and 3/8" (10mm) effective auxiliary latch deadlocking.

#### Deadbolt

One-piece stainless steel, 19/32" (15mm) x 1-1/4" (32mm) x 1" (25mm) throw.

#### Hub

Lever: steel, 5/16" (8mm).

#### Lever

Cast stainless steel.

#### Escutcheon

Cast stainless steel.

#### Strike

Wrought stainless steel, ANSI straight lip standard, 4-7/8" (124mm) x 1-1/4" (32mm) x 1-1/8" (29mm) lip to center. Optional strikes, lip lengths and ANSI wrought strike box available; see Quick Codes, page 7.

#### Thumbturn

Cast stainless steel construction. See page 28.

#### Cylinder

Brass, 6-pin, L4 keyway, 0-bitted standard. Optional cylinders available; see Quick Codes, page 4.

#### Keys

Two nickel silver standard.

#### Keying Features Available

Master keying  
Construction master keying  
Visual key control  
Concealed key control  
7-pin cylinder  
Security cylinder  
Pyramid cylinder  
Interchangeable core (IC)  
Security IC  
Pyramid IC  
Blockout cylinder

#### Electrical Specifications

(Fail Safe/Fail Secure)  
12VAC/VDC @ 800mA  
24VAC/VDC @ 390mA  
Continuous duty solenoid.  
Monitor Switch Rating: 4 amp @ 250 VAC  
Note: Operating voltage not to exceed +/- 10%.  
See Quick Codes, page 7.

#### Functions

Available with all ML20900 electrified mortise lock functions. Refer to the ML2000 mortise lock catalog (45300) for function descriptions.

Available with all ML2000 functions except ML2050, 2070 and 2080.

#### Monitor Options

##### M91 - Latchbolt Monitor

Latchbolt monitoring is a SPDT switch which monitors the full extension of the main latch.

##### M92 - Request to Exit Monitor

Request to Exit monitoring is a SPDT switch which monitors the activation of the trim. (Both levers activate switch)



Patent Pending

#### M105 - Security Monitor

Security Monitor is two switches in series that monitors lock status (locked or unlocked) and Auxiliary Latch position. Note: Monitoring options may only be ordered together as follows: M91xM92, M92xM105.

#### Warranty

Ten-year limited.

#### Certification/Compliance

##### ANSI

Meets A156.13 Series 1000, Operational and Security Grade 1.

Meets A117.1 Accessibility Code.

##### Federal

Meets FF-H-106C.

##### UL/ULC-UL10C Positive Pressure

All locks listed for A label and lesser class doors, 4' (122cm) x 10' (305cm) single or 8' (244cm) x 10' (305cm) pair.

Letter F and UL symbol on armored front indicate listing.

Any retrofit or other field modification to a fire rated opening can potentially impact the fire rating of the opening, and Corbin Russwin, Inc. 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.

\*Although this product is better designed for behavioral health applications than traditional trim, it does not eliminate the risk that an object can be affixed to, or around it.

# Cylinders

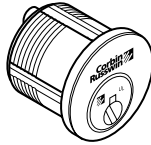
## ML2000 and ML20900 Mortise Locks with BHSS Trim

### Cylinders

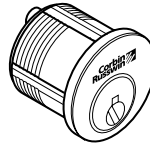
Conventional (standard for ML2000)  
Pyramid (optional)

2 nickel silver keys  
Finishes: See Key Systems and Pyramid catalogs.

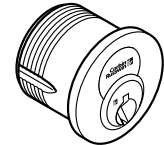
Pyramid



Conventional



Interchangeable Core (IC)



Pyramid Shown

Mortise Cylinder Type	Quick Code	Hotel Function	42 (inside) 52, 53, 55, 56, 58, 69 Functions	All Other Keyed and 42 (outside) Functions
Pyramid HS	PHS	N/A	1020-114-A02	1020-114-A01
Pyramid HS IC	PCHS	N/A	1030-114-A02	1030-114-A01
Pyramid Security	PS	N/A	1027-114-A02	1027-114-A01
Pyramid Security IC	PCS	N/A	1037-114-A02	1037-114-A01
Conventional 6-pin	N/A	1001-114-A01	1000-118-A02	1000-118-A01
Conventional 7-pin	7P	N/A	1000-114-A02-7	1000-114-A01-7
6-pin IC	C6	1081-138-A01	1080-114-A02	1080-114-A01
7-pin IC	C7	N/A	1080-112-A02-7	1080-112-A01-7
Security	HS	1011-114-A01	1010-118-A02	1010-118-A01
Security IC	CHS	1091-138-A01	1090-114-A02	1090-114-A01
Blockout	BO	N/A	1012-114-A02	1012-114-A01

To order optional cylinder with lockset, see Quick Codes, page 7.  
To order cylinder separately, specify Part No. x Keyway x Finish (e.g., 1000-118-A01 x L4 x 626).

# Strikes/Kits

## ML2000 and ML20900 Mortise Locks with BHSS Trim

### Strikes

#### ANSI Straight Lip (standard)

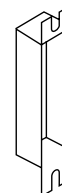
Stainless steel  
Non-handed  
4-7/8" (124mm) x 1-1/4" (32mm) x 1-1/8" (29mm) lip to center (standard)  
Optional lip lengths: 1-1/8" (29mm), 1-1/4" (32mm), 1-3/8" (35mm), 1-1/2" (38mm), 1-3/4" (44mm), 2" (51mm), 2-1/4" (57mm), 2-1/2" (64mm), 2-3/4" (70mm), 3" (76mm)

#### ANSI Curved Lip

Stainless steel  
Handed  
4-7/8" (124mm) x 1-1/4" (32mm) x 1-1/4" (32mm) lip to center (standard)  
Optional lip lengths: 1-3/8" (35mm), 1-1/2" (38mm), 1-3/4" (44mm), 2" (51mm), 2-1/4" (57mm), 2-1/2" (64mm), 2-3/4" (70mm), 3" (76mm)

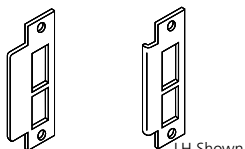
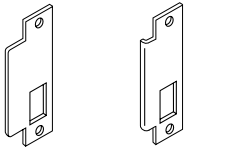
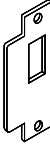

#### ANSI Wrought Strike Box

To order with lockset, see Quick Codes, page 7.  
To order separately, specify 120F76.



#### Open Back

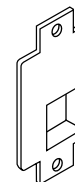
Size: 5-1/4" (133mm) x 1/4" (32mm).

	Part No.	Description
Note: Only Available with ML2000		
 Latchbolt x Deadbolt	236L72	Straight Lip
	340L60	Curved Lip for RH/LHR
	340L61	Curved Lip for LH/RHR
 Latchbolt Only	236L73	Straight Lip
	340L62	Curved Lip for RH/LHR
	340L63	Curved Lip for LH/RHR
 Deadbolt Only	236L74	Straight Lip
 Blank Filler Plate	236L70	Straight Lip

To order strike with lockset, see How to Order, page 6.  
To order strike separately, specify Part No. x Lip Length x Finish (e.g., 340L60 x 1-1/2" x 626).

Hand	Door Thickness	Part
LHR	1-3/4" (44mm)	411L63 016
	2" (51mm)	411L63 018
	2-1/4" (57mm)	411L63 020
RHR	1-3/4" (44mm)	411L62 016
	2" (51mm)	411L62 018
	2-1/4" (57mm)	411L62 020

To order with lockset, see Quick Codes, page 7. To order separately, specify Part No. x Door Thickness x Finish (e.g., 411L62 x 2" x 626).

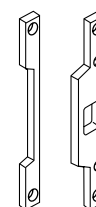


#### Rabbeted Front and Strike

Brass or bronze  
For 1/2" (13mm) rabbet  
No optional lip lengths

	Part No.	Hand
Latchbolt x Deadbolt	318F66	RH/LHR
	318F69	LH/RHR
Latchbolt only	318F64	RH/LHR
	318F67	LH/RHR
Deadbolt only	318F65	RH/LHR
	318F68	LH/RHR

To order with lockset, see Quick Codes, page 7.  
To order separately, specify Part No. x Finish (e.g., 318F66 x 626).



# How to Order

## ML2000 and ML20900 Mortise Locks with BHSS Trim

### Ordering Examples - ML2000

#### Stock Order

Quantity	Series/Function	Trim	Finish	Hand
100	ML2010	BHSS	630	RHR
50	ML2055	BHSS	630	LHR

#### Contract / Detailed Order

Quantity	Keypad	Series/Function	Trim	Finish	Hand	Door Thickness	Optional Strike	Misc. Options	Optional Cylinder	Keying
24	AA1	ML2055	BHSS	630	RHR	D214	SA200	M17-M26	C7	VKC3

Quantity	Keypad	Series/Function	Trim	Finish	Hand	Door Thickness	Optional Strike	Misc. Options	Optional Cylinder	Keying
12	AA1	ML2051	BHSS	630	LHR	D214	SS200	M07	C6	VKC1

### Ordering Examples - ML20900

#### Stock Order

Quantity	Series/Function	Trim	Finish	Hand	Voltage	Misc. Options	Keying
100	ML20901	BHSS	630	RHR	12AD	M105	VKC3

#### Contract / Detailed Order

Quantity	Keypad	Series/Function	Trim	Finish	Hand	Voltage	Misc. Options	Optional Cylinder	Keying
24	AA1	ML20904	BHSS	630	RHR	12AD	M20	7P	VKC3

## ML2000 and ML20900 Mortise Locks with BHSS Trim

### Cylinder and Keying

Description	Specify
Conventional 6-pin	(standard)
Conventional 7-pin	7P
Less cylinder(s)	LC
IC 6-pin	C6
IC 6-pin with temporary construction core	
	Red CT6R
	Blue CT6B
	Green CT6G
IC 6-pin less core	CL6
SFIC 6-pin with SFIC disposable temporary core	CT6SD
SFIC 6-pin with Less Core <sup>1</sup>	CLS6
IC 7-pin	C7
IC 7-pin with temporary construction core	
	Red CT7R
	Blue CT7B
	Green CT7G
IC 7-pin less core	CL7
SFIC 7-pin with SFIC disposable temporary core	CT7SD
SFIC 7-pin with Less Core <sup>1</sup>	CLS7
Security	HS
Security IC	CHS
Pyramid High Security Fixed Core	PHS
Pyramid High Security IC	PCHS
Pyramid IC Less Core	CLP
Pyramid with temporary construction core	CTP
Pyramid Security	PS
Pyramid Security IC	PCS
Pyramid Disposable Core	CTPD
6-Pin Disposable Core	CT6D
7-Pin Disposable Core	CT7D
Blockout function cylinder	BO
Keyed random	KR
Construction master keyed (not available for Pyramid)	CMK
Visual key control	
- No keying data stamped on key or cylinder	VKC0
- Keys only	VKC1
- Cylinders and keys (not for HS, CHS, PHS or PCHS)	VKC2
- Cylinders only (not for HS, CHS, PHS or PCHS)	VKC3
Concealed key control (CKC)	
- CKC cylinders with VKC keys	CKC2
- CKC cylinders only (not for PHS or PCHS)	CKC3
2 keys per lock	(standard)
More than 2 keys	KY# (e.g., KY6)

1. Not available with ML2029.

2. Not available for ML2017, ML2029 or ML2032 x MR, ML2000HS or ML2000VR.

### Handing

Description	Specify
Right Hand	RH
Left Hand	LH
Right Hand Reverse	RHR
Left Hand Reverse	LHR

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### Finishes

Description	Specify
BHMA 629 (US32)	Bright Stainless Steel 629
BHMA 630 (US32D)	Satin Stainless Steel 630
630C	Satin Stainless Steel with MicroShield® 630C

### Door Thickness

Door Thickness	Sectional Trim - Specify	Escutcheon* Trim - Specify
1-3/4" (44mm)	(standard)	(standard)
2" (51mm)	D200	D200
2-1/4" (57mm)	D214	D214

### Strikes

ANSI Lip to Center	ANSI Straight Lip Specify	Curved Lip Specify
1-1/8" (29mm)	(standard)	SA118
1-1/4" (32mm)	SS114	SA114
1-3/8" (35mm)	SS138	SA138
1-1/2" (38mm)	SS112	SA112
1-3/4" (44mm)	SS134	SA134
2" (51mm)	SS200	SA200
2-1/4" (57mm)	SS214	SA214
2-1/2" (64mm)	SS212	SA212
2-3/4" (70mm)	SS234	SA234
3" (76mm)	SS300	SA300
Open Back Strike	Door Thickness	Specify
	1-3/4" (44mm)	SB134
	2" (51mm)	SB200
	2-1/4" (57mm)	SB214

Rabbeted front and strike – Specify SR118

### Miscellaneous Options

Description	Specify
Torx® head screws	(standard)
ANSI wrought strike box	M17
Latch hold back (for ML2042, ML2052, ML2055, ML2051, ML2057 only)	LHB*

\* Must use A02 cam when LHB is specified

### Electric Monitor Options (ML20900 Series Only)

Description	Specify
Latchbolt Monitor	M91
Request to Exit	M92
Security Monitor	M105

These options may be ordered together only as follows: M91xM92, M92xM105.

### Voltage

Description	Specify
12 volt alternating current/direct current	12AD
24 volt alternating current/direct current	24AD

# Features

## ML2000 and ML20900 Mortise Locks with BLSS Trim\*

Part of the Behavioral Health Series™, the ML2000 mortise lock with BLSS trim offers durability and strength in behavioral healthcare settings. With a variety of available functions, it is flexible enough to use in many applications, and the sloped surfaces and overlapping lever and rose construction address common concerns in behavioral health.

### Features

#### Handing

Non-handed.

#### Door Thickness

1-3/4" (44mm) standard.

Optional door thicknesses available; see Quick Codes, page 12.

#### Backset

2-3/4" (70mm).

#### Lockcase

Heavy-gauge steel, 5-7/8" (149mm) x 4" (102mm) x 15/16" (24mm).

#### Front

Heavy-gauge steel, 8" (203mm) x 1-1/4" (32mm) x -3/32" (2mm). Accommodates flat doors and doors beveled 1/8" (3mm) in 2" (51mm).

#### Armored Front

Wrought stainless steel attached by machine screws to lockcase front. Utilizes security Torx® screws. Torx® screws come standard.

#### Latchbolt

2-piece mechanical with anti-friction insert, 5/8" (16mm) x 1" (25mm) x 3/4" (19mm) throw.

#### Auxiliary Latchbolt

9/16" (14mm) effective throw and 3/8" (10mm) effective auxiliary latch deadlocking.

#### Deadbolt

One-piece stainless steel, 19/32" (15mm) x 1-1/4" (32mm) x 1" (25mm) throw.

#### Hub

Lever: steel, 5/16" (8mm).

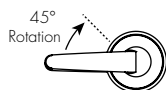
#### Lever

Cast stainless steel.

Outside lever release feature: lever freely rotates up to 45°.

#### Rose

Cast stainless steel.



#### Strike

Wrought stainless steel, ANSI straight lip standard, 4-7/8" (124mm) x 1-1/4" (32mm) x 1-1/8" (29mm) lip to center. Optional strikes, lip lengths and ANSI wrought strike box available; see Quick Codes, page 12.

#### Thumbturn

Cast stainless steel construction. See page 28.

#### Cylinder

Brass, 6-pin, L4 keyway, 0-bitted standard. Optional cylinders available; see Quick Codes, page 9.

#### Keys

Two nickel silver standard.

#### Keying Features Available

Master keying  
Construction master keying  
Visual key control  
Concealed key control  
7-pin cylinder  
Security cylinder  
Pyramid cylinder  
Interchangeable core (IC)  
Security IC  
Pyramid IC  
Blockout cylinder

#### Electrical Specifications (Fail Safe/Fail Secure)

12VAC/VDC @ 800mA  
24VAC/VDC @ 390mA  
Continuous duty solenoid.  
Monitor Switch Rating: 4 amp @ 250 VAC  
Note: Operating voltage not to exceed +/- 10%.  
See Quick Codes, page 12.

#### Functions

Available with all ML20900 electrified mortise lock functions. Refer to the ML2000 mortise lock catalog (45300) for function descriptions.

Available with the following functions: 2010, 2022, 2024, 2030, 2032, 2042, 2054, 2052, 2055, 2057, 2060, 2062, 2065, 2067, 2069, 20902, 20903, 20905 and 20912.



#### Monitor Options

##### M91 - Latchbolt Monitor

Latchbolt monitoring is a SPDT switch which monitors the full extension of the main latch.

##### M92 - Request to Exit Monitor

Request to Exit monitoring is a SPDT switch which monitors the activation of the trim. (Both levers activate switch)

##### M105 - Security Monitor

Security Monitor is two switches in series that monitors lock status (locked or unlocked) and Auxiliary Latch position.

Note: Monitoring options may only be ordered together as follows: M91xM92, M92xM105.

#### Warranty

Ten-year limited.

### Certification/Compliance

#### ANSI

Meets A156.13 Series 1000, Operational and Security Grade 1.

Meets A117.1 Accessibility Code.

#### Federal

Meets FF-H-106C.

#### UL/ULC-UL10C Positive Pressure

All locks listed for A label and lesser class doors, 4' (122cm) x 10' (305cm) single or 8' (244cm) x 10' (305cm) pair.

Letter F and UL symbol on armored front indicate listing.

Any retrofit or other field modification to a fire rated opening can potentially impact the fire rating of the opening, and Corbin Russwin, Inc. 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.

\*Although this product is better designed for behavioral health applications than traditional trim, it does not eliminate the risk that an object can be affixed to, or around it.



# Cylinders

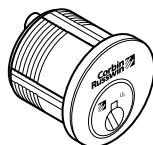
## ML2000 and ML20900 Mortise Locks with BLSS Trim

### Cylinders

Conventional (standard for ML2000)  
Pyramid (optional)

2 nickel silver keys  
Finishes: See Key Systems and Pyramid  
catalogs.

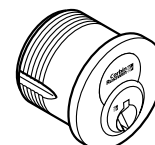
Pyramid



Conventional



Interchangeable Core  
(I.C.)



Pyramid  
Shown

Mortise Cylinder Type	Quick Code	Hotel Function	42 (inside) 52, 53, 55, 56, 58, 69 Functions	All Other Keyed and 42 (outside) Functions
Pyramid HS	PHS	N/A	1020-114-A02	1020-114-A01
Pyramid HS IC	PCHS	N/A	1030-114-A02	1030-114-A01
Pyramid Security	PS	N/A	1027-114-A02	1027-114-A01
Pyramid Security IC	PCS	N/A	1037-114-A02	1037-114-A01
Conventional 6-pin	N/A	1001-114-A01	1000-118-A02	1000-118-A01
Conventional 7-pin	7P	N/A	1000-114-A02-7	1000-114-A01-7
6-pin IC	C6	1081-138-A01	1080-114-A02	1080-114-A01
7-pin IC	C7	N/A	1080-112-A02-7	1080-112-A01-7
Security	HS	1011-114-A01	1010-118-A02	1010-118-A01
Security IC	CHS	1091-138-A01	1090-114-A02	1090-114-A01
Blockout	BO	N/A	1012-114-A02	1012-114-A01

To order optional cylinder with lockset, see Quick Codes, page 12.  
To order cylinder separately, specify Part No. x Keyway x Finish  
(e.g., 1000-118-A01 x L4 x 626).

# Strikes/Kits

## ML2000 and ML20900 Mortise Locks with BLSS Trim

### Strikes

#### ANSI Straight Lip (standard)

Stainless steel  
Non-handed  
4-7/8" (124mm) x 1-1/4" (32mm) x 1-1/8" (29mm) lip to center (standard)  
Optional lip lengths: 1-1/8" (29mm), 1-1/4" (32mm), 1-3/8" (35mm), 1-1/2" (38mm), 1-3/4" (44mm), 2" (51mm), 2-1/4" (57mm), 2-1/2" (64mm), 2-3/4" (70mm), 3" (76mm)

#### ANSI Curved Lip

Stainless steel  
Handed  
4-7/8" (124mm) x 1-1/4" (32mm) x 1-1/4" (32mm) lip to center (standard)  
Optional lip lengths: 1-3/8" (35mm), 1-1/2" (38mm), 1-3/4" (44mm), 2" (51mm), 2-1/4" (57mm), 2-1/2" (64mm), 2-3/4" (70mm), 3" (76mm)

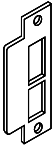
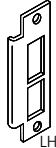

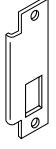
#### ANSI Wrought Strike Box

To order with lockset, see Quick Codes, page 12.  
To order separately, specify 120F76.



#### Open Back

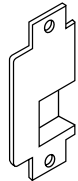
Size: 5-1/4" (133mm) x 1/4" (32mm).

	Part No.	Description
Note: Only Available with ML2000	236L72	Straight Lip
  Latchbolt x Deadbolt	340L60	Curved Lip for RH/LHR
	340L61	Curved Lip for LH/RHR
	236L73	Straight Lip
  Latchbolt Only	340L62	Curved Lip for RH/LHR
	340L63	Curved Lip for LH/RHR
	236L74	Straight Lip
Deadbolt Only		
Blank Filler Plate	236L70	Straight Lip

To order strike with lockset, see How to Order, page 11.  
To order strike separately, specify Part No. x Lip Length x Finish (e.g., 340L60 x 1-1/2" x 626).

Hand	Door Thickness	Part
LHR	1-3/4" (44mm)	411L63 016
	2" (51mm)	411L63 018
	2-1/4" (57mm)	411L63 020
RHR	1-3/4" (44mm)	411L62 016
	2" (51mm)	411L62 018
	2-1/4" (57mm)	411L62 020

To order with lockset, see Quick Codes, page 12. To order separately, specify Part No. x Door Thickness x Finish (e.g., 411L62 x 2" x 626).

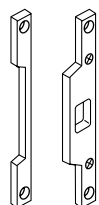


#### Rabbeted Front and Strike

Brass or bronze  
For 1/2" (13mm) rabbet  
No optional lip lengths

	Part No.	Hand
Latchbolt x Deadbolt	318F66	RH/LHR
	318F69	LH/RHR
Latchbolt only	318F64	RH/LHR
	318F67	LH/RHR
Deadbolt only	318F65	RH/LHR
	318F68	LH/RHR

To order with lockset, see Quick Codes, page 12.  
To order separately, specify Part No. x Finish (e.g., 318F66 x 626).



# How to Order

## ML2000 and ML20900 Mortise Locks with BLSS Trim

### Ordering Examples - ML2000

#### Stock Order

Quantity	Series/Function	Trim	Finish	Hand
100	ML2010	BLSS	630	RHR
50	ML2055	BLSS	630	LHR

#### Contract / Detailed Order

Quantity	Keypad	Series/Function	Trim	Finish	Hand	Door Thickness	Optional Strike	Misc. Options	Optional Cylinder	Keying
24	AA1	ML2055	BLSS	630	RHR	D214	SA200	M17-M26	C7	VKC3

Quantity	Keypad	Series/Function	Trim	Finish	Hand	Door Thickness	Optional Strike	Misc. Options	Optional Cylinder	Keying
12	AA1	ML2051	BLSS	630	LHR	D214	SS200	M07	C6	VKC1

### Ordering Examples - ML20900

#### Stock Order

Quantity	Series/Function	Trim	Finish	Hand	Voltage	Misc. Options	Keying
100	ML20901	BLSS	630	RHR	12AD	M105	VKC3

#### Contract / Detailed Order

Quantity	Keypad	Series/Function	Trim	Finish	Hand	Voltage	Misc. Options	Optional Cylinder	Keying
24	AA1	ML20904	BLSS	630	RHR	12AD	M20	7P	VKC3

# Quick Codes

## ML2000 and ML20900 Mortise Locks with BLSS Trim

### Cylinder and Keying

Description	Specify
Conventional 6-pin	(standard)
Conventional 7-pin	7P
Less cylinder(s)	LC
IC 6-pin	C6
IC 6-pin with temporary construction core	
	Red CT6R
	Blue CT6B
	Green CT6G
IC 6-pin less core	CL6
SFIC 6-pin with SFIC disposable temporary core	CT6SD
SFIC 6-pin with Less Core <sup>1</sup>	CLS6
IC 7-pin	C7
IC 7-pin with temporary construction core	
	Red CT7R
	Blue CT7B
	Green CT7G
IC 7-pin less core	CL7
SFIC 7-pin with SFIC disposable temporary core	CT7SD
SFIC 7-pin with Less Core <sup>1</sup>	CLS7
Security	HS
Security IC	CHS
Pyramid High Security Fixed Core	PHS
Pyramid High Security IC	PCHS
Pyramid IC Less Core	CLP
Pyramid with temporary construction core	CTP
Pyramid Security	PS
Pyramid Security IC	PCS
Pyramid Disposable Core	CTPD
6-Pin Disposable Core	CT6D
7-Pin Disposable Core	CT7D
Blockout function cylinder	BO
Keyed random	KR
Construction master keyed (not available for Pyramid)	CMK
Visual key control	
- No keying data stamped on key or cylinder	VKC0
- Keys only	VKC1
- Cylinders and keys (not for HS, CHS, PHS or PCHS)	VKC2
- Cylinders only (not for HS, CHS, PHS or PCHS)	VKC3
Concealed key control (CKC)	
- CKC cylinders with VKC keys	CKC2
- CKC cylinders only (not for PHS or PCHS)	CKC3
2 keys per lock	(standard)
More than 2 keys	KY# (e.g., KY6)

1. Not available with ML2029.

2. Not available for ML2017, ML2029 or ML2032 x MR, ML2000HS or ML2000VR.

### Finishes

Description	Specify
BHMA 629 (US32) Bright Stainless Steel	629
BHMA 630 (US32D) Satin Stainless Steel	630
630C Satin Stainless Steel with MicroShield®	630C

### Door Thickness

Door Thickness	Sectional Trim - Specify	Escutcheon* Trim - Specify
1-3/4" (44mm)	(standard)	(standard)
2" (51mm)	D200	D200
2-1/4" (57mm)	D214	D214

### Strikes

Available for ML2000HS and ML2000VR

ANSI Lip to Center	ANSI Straight Lip Specify	Curved Lip Specify
1-1/8" (29mm)	(standard)	SA118
1-1/4" (32mm)	SS114	SA114
1-3/8" (35mm)	SS138	SA138
1-1/2" (38mm)	SS112	SA112
1-3/4" (44mm)	SS134	SA134
2" (51mm)	SS200	SA200
2-1/4" (57mm)	SS214	SA214
2-1/2" (64mm)	SS212	SA212
2-3/4" (70mm)	SS234	SA234
3" (76mm)	SS300	SA300
Open Back Strike	Door Thickness	Specify
	1-3/4" (44mm)	SB134
	2" (51mm)	SB200
	2-1/4" (57mm)	SB214
Rabbeted front and strike	-	Specify SR118

### Miscellaneous Options

Description	Specify
Torx® head screws	(standard)
ANSI wrought strike box	M17
Working trim only	M31
Latch hold back (for ML2042, ML2052, ML2055, ML2051, ML2057 only)	LHB*

\* Must use A02 cam when LHB is specified

### Electric Monitor Options (ML20900 Series Only)

Description	Specify
Latchbolt Monitor	M91
Request to Exit	M92
Security Monitor	M105

These options may be ordered together only as follows: M91xM92, M92xM105.

### Voltage

Description	Specify
12 volt alternating current/direct current	12AD
24 volt alternating current/direct current	24AD

## ML2000 Mortise Lock with Push/Pull Paddle Trim (HPSK)

The ML2000 mortise lock with push/pull paddle trim provides an aesthetically pleasing alternative to products with standard push/pull trim. Its heavy-duty design and ANSI/BHMA Grade 1 strength help it to withstand abuse from rigorous environments. Multiple mounting orientations, hands free operation and a sleek, aesthetic form, make the ML2000 mortise lock ideal for use in healthcare facilities and educational facilities.

### Features

#### Handing

Handed; quick reversible. The lockset can be re-handed without disassembling the lock case.

#### Door Thickness

1-3/4" (44mm) standard.  
Optional door thicknesses available; see Quick Codes, pages 20-21.

#### Backset

2-3/4" (70mm).

#### Lockcase

Heavy-gauge steel, 5-7/8" (149mm) x 4" (102mm) x 15/16" (24mm).

#### Front

Heavy-gauge steel, 8" (203mm) x 1-1/4" (32mm) x -3/32" (2mm). Accommodates flat doors and doors beveled 1/8" (3mm) in 2" (51mm).

#### Armored Front

Wrought brass, bronze or stainless steel attached by machine screws to lockcase front.

#### Latchbolt

2-piece mechanical with anti-friction insert, 5/8" (16mm) x 1" (25mm) x 3/4" (19mm) throw.

#### Auxiliary Latchbolt

9/16" (14mm) effective throw and 3/8" (10mm) effective auxiliary latch deadlocking.

#### Deadbolt

One-piece stainless steel, 19/32" (15mm) x 1-1/4" (32mm) x 1" (25mm) throw.

#### Hub

Lever: steel, 5/16" (8mm).

#### Strike

Wrought brass, bronze or stainless steel, ANSI straight lip standard, 4-7/8" (124mm) x 1-1/4" (32mm) x 1-1/8" (29mm) lip to center. Optional strikes, lip lengths and ANSI wrought strike box available; see Quick Codes, pages 20-21.

#### Thumbturn

Cast stainless steel construction. See page 28.

#### Cylinder

Brass, 6-pin, L4 keyway, 0-bitted standard. Optional cylinders available; see Quick Codes, pages 20-21.

#### Keys

Two nickel silver standard.

#### Keying Features Available

Master keying  
Construction master keying  
Visual key control  
Concealed key control  
7-pin cylinder  
Security cylinder  
Pyramid cylinder  
Interchangeable core (IC)  
Security IC  
Pyramid IC  
Blockout cylinder

#### Functions

Available with all ML2000 functions except ML2050, 2070 and 2080.

#### Covers

Cast stainless steel or bronze.

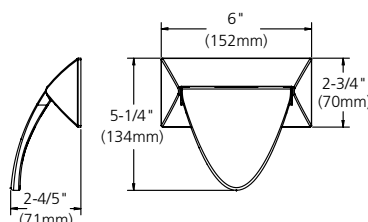
#### Paddles

Cast stainless steel or bronze. Non-handed.

#### Mounting Options

Paddle trim can be mounted as horizontal (up or down) and vertical (sideways) orientations in the field.

#### Cover and Paddle Dimensions



#### Warranty

Ten-year limited.



U.S. Patent Numbers: D646,548S;  
D646,549S

### Certification/Compliance

#### ANSI

Meets A156.13 Series 1000, Operational and Security Grade 1.

Meets A117.1 Accessibility Code.

#### Federal

Meets FF-H-106C.

#### UL/ULC-UL10C Positive Pressure

All locks listed for A label and lesser class doors, 4' (122cm) x 10' (305cm) single or 8' (244cm) x 10' (305cm) pair.

Letter F and UL symbol on armored front indicate listing.

Any retrofit or other field modification to a fire rated opening can potentially impact the fire rating of the opening, and Corbin Russwin, Inc. 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.

# Features

## ML20900 Electrified Mortise Lock with Push/Pull Paddle Trim (HPSK)

### Features

#### Handing

Handed; quick reversible. The lockset can be re-handed without disassembling the lockcase.

#### Door Thickness

1-3/4" (44mm) standard. Optional door thicknesses available; see Quick Codes, page 15.

#### Backset

2-3/4" (70mm).

#### Lockcase

Heavy-gauge chrome plated steel, 5-7/8" (149mm) x 4" (102mm) x 15/16" (24mm).

#### Front

Heavy gauge steel, 8" (203mm) x 1-1/4" (32mm) x 3/32" (2mm).

Accommodates flat doors and doors beveled 1/8" (3mm) in 2" (51mm).

#### Armored Front

Wrought brass, bronze or stainless steel attached by machine screws to lockcase front.

#### Latchbolt

2-piece mechanical anti-friction insert, 5/8" (16mm) x 1" (25mm) x 3/4" (19mm) throw.

#### Auxiliary Latchbolt

9/16" (14mm) effective throw and 3/8" (10mm) effective auxiliary latch deadlocking.

#### Hub

Lever: steel, 5/16" (8mm).

#### Strike

Wrought brass, bronze or stainless steel ANSI straight lip standard, 4-7/8" (124mm) x 1-1/4" (32mm) x 1-1/8" (29mm) lip to center. Optional strikes, lip lengths and ANSI wrought strike box available; see Quick Codes, pages 20-21.

#### Cylinder

Brass, 6-pin, L4 keyway, 0-bitted standard. Optional cylinders available; see Quick Codes, page 15.

#### Keys

Two nickel silver standard.

### Electrical Specifications

#### (Fail Safe/Fail Secure)

12VAC/VDC @ 800mA

24VAC/VDC @ 390mA

Continuous duty solenoid.

Monitor Switch Rating: 4 amp @ 250 VAC

Note: Operating voltage not to exceed

+/- 10%.

See Quick Codes, pages 20-21.

### Functions

Available with all ML20900 electrified mortise lock functions. Refer to the ML2000 mortise lock catalog (45300) for the available functions and descriptions.

### Monitor Options

#### M91 - Latchbolt Monitor

Latchbolt monitoring is a SPDT switch which monitors the full extension of the main latch.

#### M92 - Request to Exit Monitor

Request to Exit monitoring is a SPDT switch which monitors the activation of the trim. (Both levers activate switch)

#### M105 - Security Monitor

Security Monitor is two switches in series that monitors lock status (locked or unlocked) and Auxiliary Latch position.

Note: Monitoring options may only be ordered together as follows: M91xM92, M92xM105.

### Covers

Cast stainless steel or bronze.

### Paddles

Cast stainless steel or bronze.

Non-handed.

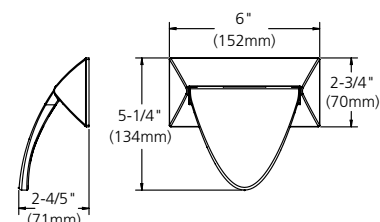
### Thumbturn

Cast stainless steel construction

### Mounting Options

Paddle trim can be mounted as horizontal (up or down) and vertical (sideways) orientations in the field.

### Cover and Paddle Dimensions



### Warranty

Ten-year limited warranty on ML2000 mortise lockset. Two-year limited warranty on electronic components.

### Certification/Compliance

#### ANSI

Meets A156.13 Series 1000, operational Grade 1.

Meets A117.1 Accessibility Code.

#### Federal

Meets FF-H-106C.

#### UL /ULC

All locks listed for A label and lesser class doors, 4' x 10' single or 8' x 10' pair.

Letter F and UL symbol on armored front indicate listing. Meets requirements of UL1034.

Any retrofit or other field modification to a fire rated opening can potentially impact the fire rating of the opening, and Corbin Russwin, Inc. 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.

# Cylinders

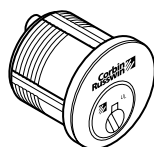
## ML2000 and ML20900 Mortise Locks with Push/Pull Paddle Trim (HPSK)

### Cylinders

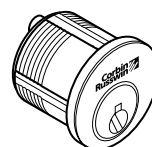
Conventional (standard for ML2000)  
Pyramid (optional)

2 nickel silver keys  
Finishes: See Key Systems and Pyramid catalogs.

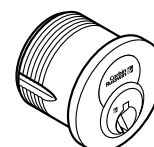
Pyramid



Conventional



Interchangeable Core  
(I.C.)



Pyramid  
Shown

Mortise Cylinder Type	Quick Code	Hotel Function	42 (inside) 52, 53, 55, 56, 58, 69 Functions	All Other Keyed and 42 (outside) Functions
Pyramid HS	PHS	N/A	1020-114-A02	1020-114-A01
Pyramid HS IC	PCHS	N/A	1030-114-A02	1030-114-A01
Pyramid Security	PS	N/A	1027-114-A02	1027-114-A01
Pyramid Security IC	PCS	N/A	1037-114-A02	1037-114-A01
Conventional 6-pin	N/A	1001-114-A01	1000-118-A02	1000-118-A01
Conventional 7-pin	7P	N/A	1000-114-A02-7	1000-114-A01-7
6-pin IC	C6	1081-138-A01	1080-114-A02	1080-114-A01
7-pin IC	C7	N/A	1080-112-A02-7	1080-112-A01-7
Security	HS	1011-114-A01	1010-118-A02	1010-118-A01
Security IC	CHS	1091-138-A01	1090-114-A02	1090-114-A01
Blockout	BO	N/A	1012-114-A02	1012-114-A01

To order optional cylinder with lockset, see Quick Codes, pages 20-21.  
To order cylinder separately, specify Part No. x Keyway x Finish  
(e.g., 1000-118-A01 x L4 x 626).

# Strikes/Kits

## ML2000 and ML20900 Mortise Locks with Push/Pull Paddle Trim (HPSK)

### Strikes

#### ANSI Straight Lip (standard)

Brass, bronze or stainless steel

Non-handed

4-7/8" (124mm) x 1-1/4" (32mm) x 1-1/8" (29mm) lip to center (standard)

Optional lip lengths: 1-1/8" (29mm), 1-1/4" (32mm), 1-3/8" (35mm), 1-1/2" (38mm), 1-3/4" (44mm), 2" (51mm), 2-1/4" (57mm), 2-1/2" (64mm), 2-3/4" (70mm), 3" (76mm)

#### ANSI Curved Lip

Brass, bronze or stainless steel

Handed

4-7/8" (124mm) x 1-1/4" (32mm) x 1-1/4" (32mm) lip to center (standard)

Optional lip lengths: 1-3/8" (35mm), 1-1/2" (38mm), 1-3/4" (44mm), 2" (51mm), 2-1/4" (57mm), 2-1/2" (64mm), 2-3/4" (70mm), 3" (76mm)

#### ANSI Wrought Strike Box

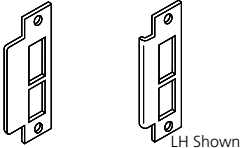
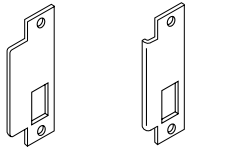
To order with lockset, see Quick Codes, pages 20-21.

To order separately, specify 120F76.



#### Open Back

Size: 5-1/4" (133mm) x 1/4" (32mm).

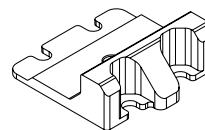
	Part No.	Description
Note: Only Available with ML2000	236L72	Straight Lip
 LH Shown Latchbolt x Deadbolt	340L60	Curved Lip for RH/LHR
	340L61	Curved Lip for LH/RHR
	236L73	Straight Lip
 LH Shown Latchbolt Only	340L62	Curved Lip for RH/LHR
	340L63	Curved Lip for LH/RHR
	236L74	Straight Lip
Deadbolt Only		
Blank Filler Plate	236L70	Straight Lip

To order strike with lockset, see How to Order, page 19.  
To order strike separately, specify Part No. x Lip Length x Finish (e.g., 340L60 x 1-1/2" x 626).

### Kits

#### Positive Pull Stop Kit

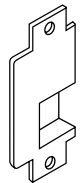
Used on openings where weather stripping is installed or when door closers are not utilized, this kit prevents the latch from retracting when pulling door closed. Contains 2 wood screws, 2 machine screws and instructions. To order, specify 813F068.



Specialty Hardware.16

Hand	Door Thickness	Part
LHR	1-3/4" (44mm)	411L63 016
	2" (51mm)	411L63 018
	2-1/4" (57mm)	411L63 020
RHR	1-3/4" (44mm)	411L62 016
	2" (51mm)	411L62 018
	2-1/4" (57mm)	411L62 020

To order with lockset, see Quick Codes, pages 20-21. To order separately, specify Part No. x Door Thickness x Finish (e.g., 411L62 x 2" x 626).



#### Rabbeted Front and Strike

Brass or bronze

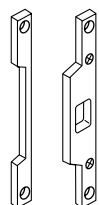
For 1/2" (13mm) rabbet

No optional lip lengths

	Part No.	Hand
Latchbolt x Deadbolt	318F66	RH/LHR
	318F69	LH/RHR
Latchbolt only	318F64	RH/LHR
	318F67	LH/RHR
Deadbolt only	318F65	RH/LHR
	318F68	LH/RHR

To order with lockset, see Quick Codes, pages 20-21.

To order separately, specify Part No. x Finish (e.g., 318F66 x 626).





# Electrified Options & Accessories

## ML20900 Mortise Lock with Push/Pull Paddle Trim (HPSK)

### BPS Power Supply

#### Operation

Power supplies are designed to provide reliable filtered and regulated power for long life to a variety of electrified hardware components. All modular power supplies are designed to meet UL 1481 Standards. Recommended for the ML20900, delayed egress exit devices and electric trim.

#### Features

- Fire panel emergency release input
- PC Board mounted system LED indicator
- Regulated and filtered with input and output protection
- Battery charging is provided from a separate output terminal

#### Electrical Specifications

- Inputs: 115VAC @600mA
- Outputs: 12/24 VDC @ 1 Amp, 1.5 Amp or 4 Amp, Filtered and regulated output

#### Listings

- UL & cUL listed 1012 General Purpose Power Supply
- Fire & Burglar Alarm Power Supply Unit URT2
- Releasing device Accessory SYSW
- Access Control Systems Units ALVY
- Burglar Alarm Systems Power Supply APHY

#### Applications

- D – Delayed Egress
- M97 – Electric Dogging
- SAF – Fail Safe mortise device trim control
- SEC – Fail Secure mortise device trim control
- ML20900



Note: Batteries are not included with the BPS power supply

Model	Enclosure	Input	Output
BPS-24-1	12" (304mm) x 9" (229mm) x 4" (102mm)	115VAC, 50/60 Hz.	1 Amp @ 24 VDC
BPS-24-2	14" (356mm) x 14" (356mm) x 4" (102mm)	115VAC, 50/60 Hz.	2 Amp @ 24 VDC
BPS-24-4	15" (381mm) x 18" (457mm) x 6" (152mm)	115VAC, 50/60 Hz.	4 Amp @ 24VDC
BPS-12-1	12" (304mm) x 9" (229mm) x 4" (102mm)	115VAC, 50/60 Hz.	1 Amp @ 12 VDC
BPS-12-3	14" (356mm) x 14" (356mm) x 4" (102mm)	115VAC, 50/60 Hz.	3 Amp @ 12 VDC

### Requirements for Electrical and Data Transfer

To answer the demand for "smart" electronic access control and locking solutions that require fast, easy, and cost-effective installation, ASSA ABLOY Group brands use the ElectroLynx® standardized plug-in connectors and color-coded wiring system.

With *ElectroLynx*, doorway components come pre-wired for easy hookup to the power source. The key to the system is the transfer device hinge that carries power from the frame to the locking hardware.

#### Features of ElectroLynx:

- Makes it easy to bring power to the locking hardware
- Wires have connectors that snap together, like plugging a telephone into a jack

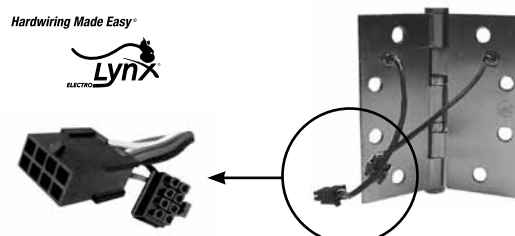
To connect a ML20900 electrified mortise lock to the electronic access control system, the following items are required:

- ML20900 electrified mortise lock
- ASSA ABLOY Door Group pre-wired door, or *ElectroLynx* retrofit cable (order from McKinney)

- Electronic transfer device (*ElectroLynx* electronic transfer hinge or Electrical Power Transfer with standard hinge, from McKinney)
- *ElectroLynx* cable from the hinge to above the ceiling (order from McKinney)

Information regarding cable selection, hinge requirements and order strings can be found in the McKinney Transfer Device Solutions catalog. Consult 800-810-WIRE (9473) with questions on application specifications and requirements.

The McKinney QC8 *ElectroLynx* Hinge is recommended for all ML20900 functions and electrified options.

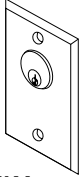


# Electrified Options & Accessories

## ML20900 Mortise Lock with Push/Pull Paddle Trim (HPSK)

### Exit Controls and Switches

#### Key Switches



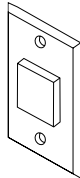
**MKA**

MKA - (1) SPDT Maintained  
 MK - (1) SPDT Momentary  
 MKN - (1) SPDT Momentary NS  
 MK2 - (1) DPDT Momentary  
 MKPZ x MKS - (1) SPDT Momentary with  
 audio Double Gang x Additional Switch  
 Note: All key switches come standard with  
 12/24 VDC bi-color LED.

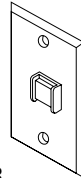
#### Specifications

- Keyswitch for operation using a standard 1-1/8" mortise cylinder (A02 cam) (cylinder not included).
- Contact Rating 5 Amps @ 12-24VDC
- SPDT 3-position.

#### Push Buttons



**PB2**



**PB3**

PB2 - (1) SPDT Momentary  
 PB2 - (1) DPST Remote Momentary  
 PB3 - (1) DPST Momentary  
 PB3A - (1) DPST Maintained (Alt. Action)  
 PB3EA - (1) DPST Alternate

#### Specifications

- 3 Amps @ 12-24 VDC

#### Indicator

ZLP - (1) Red and Green LED on narrow  
 gang plate.

#### Audible/Visual Annunciators



**PZ1**

PZ1 - Sonalert 90db @ 2ft. 12-24VDC.  
 Mounted on one gang stainless steel plate.

#### Digital Entry

DK-11 - Digital Keypad - 4 User  
 DK-26SS - Digital Keypad NS - 59 User -  
 SS Finish  
 DK-26BK - Digital Keypad NS - 59 User -  
 Black Finish

#### Power Transfers

TSB B-C - Door Cord

# How to Order

## ML2000 and ML20900 Mortise Locks with Push/Pull Paddle Trim (HPSK)

### Ordering Examples - ML2000

#### Stock Order

Quantity	Series/Function	Trim	Finish	Hand
100	ML2010	HPSK	630	RHR
50	ML2055	HPSK	630	LHR

#### Contract / Detailed Order

Quantity	Keypad	Series/Function	Trim	Finish	Hand	Door Thickness	Optional Strike	Misc. Options	Optional Cylinder	Keying
24	AA1	ML2055	HPSK	630	RHR	D214	SA200	M17-M26	C7	VKC3

Quantity	Keypad	Series/Function	Trim	Finish	Hand	Door Thickness	Optional Strike	Misc. Options	Optional Cylinder	Keying
12	AA1	ML2051	HPSK	630	LHR	D214	SS200	M07	C6	VKC1

### Ordering Examples - ML20900

#### Stock Order

Quantity	Series/Function	Trim	Finish	Hand	Voltage	Misc. Options	Keying
100	ML20901	HPSK	630	RHR	12AD	M105	VKC3

#### Contract / Detailed Order

Quantity	Keypad	Series/Function	Trim	Finish	Hand	Voltage	Misc. Options	Optional Cylinder	Keying
24	AA1	ML20904	HPSK	630	RHR	12AD	M20	7P	VKC3

# Quick Codes

## ML2000 and ML20900 Mortise Locks with Push/Pull Paddle Trim (HPSK)

### Cylinder and Keying

Description	Specify
Conventional 6-pin	(standard)
Conventional 7-pin	7P
Less cylinder(s)	LC
IC 6-pin	C6
IC 6-pin with temporary construction core	
Red	CT6R
Blue	CT6B
Green	CT6G
IC 6-pin less core	CL6
SFIC 6-pin with SFIC disposable temporary core	CT6SD
SFIC 6-pin with Less Core <sup>1</sup>	CLS6
IC 7-pin	C7
IC 7-pin with temporary construction core	
Red	CT7R
Blue	CT7B
Green	CT7G
IC 7-pin less core	CL7
SFIC 7-pin with SFIC disposable temporary core	CT7SD
SFIC 7-pin with Less Core <sup>1</sup>	CLS7
Security	HS
Security IC	CHS
Pyramid High Security Fixed Core	PHS
Pyramid High Security IC	PCHS
Pyramid IC Less Core	CLP
Pyramid with temporary construction core	CTP
Pyramid Security	PS
Pyramid Security IC	PCS
Pyramid Disposable Core	CTPD
6-Pin Disposable Core	CT6D
7-Pin Disposable Core	CT7D
Blockout function cylinder	BO

Description	Specify
Keyed random	KR
Construction master keyed (not available for Pyramid)	CMK
Visual key control	
- No keying data stamped on key or cylinder	VKC0
- Keys only	VKC1
- Cylinders and keys (not for HS, CHS, PHS or PCHS)	VKC2
- Cylinders only (not for HS, CHS, PHS or PCHS)	VKC3
C concealed key control (CKC)	
- CKC cylinders with VKC keys	CKC2
- CKC cylinders only (not for PHS or PCHS)	CKC3
2 keys per lock	(standard)
More than 2 keys	KY# (e.g., KY6)

1. Not available with ML2029.

2. Not available for ML2017, ML2029 or ML2032 x MR, ML2000HS or ML2000VR.

### Finishes

Description	Specify
BHMA 605 (US3) Bright Brass	605
BHMA 606 (US4) Satin Brass	606
BHMA 611 (US9) Bright Bronze	611
BHMA 612 (US10) Satin Bronze	612
BHMA 613 (US10B) Dark Oxidized Satin Bronze, Oil Rubbed	613
613L Dark Oxidized Satin Bronze, Clear Coated	613L
BHMA 618 (US14) Bright Nickel Plated	618
BHMA 619 (US15) Satin Nickel Plated	619
BHMA 629 (US32) Bright Stainless Steel	629
BHMA 630 (US32D) Satin Stainless Steel	630
630C Satin Stainless Steel with MicroShield®	630C
BHMA 722 (US10A) Black Oxidized Bronze, oil rubbed	722

## ML2000 and ML20900 Mortise Locks with Push/Pull Paddle Trim (HPSK)

### Miscellaneous Options

Description	Specify
Spanner head screws	M02
Torx® head screws	M04
ANSI wrought strike box	M17
Lead Lining	M29
Working trim only	M31
"PUSH & PULL" Identification**	M38
Latch hold back (for ML2042, ML2052, ML2055, ML2051, ML2057 only)	LHB*

\* Must use A02 cam when LHB is specified

\*\* Non-Handed

### Handing

Hand	Specify
Right Hand	RH
Left Hand	LH
Right Hand Reverse	RHR
Left Hand Reverse	LHR

### Electric Monitor Options (ML20900 Series Only)

Description	Specify
Latchbolt Monitor	M91
Request to Exit	M92
Security Monitor	M105

These options may be ordered together only as follows:  
M91xM92, M92xM105.

### Voltage

Description	Specify
12 volt alternating current/direct current	12AD
24 volt alternating current/direct current	24AD

### Door Thickness

Door Thickness	Sectional Trim - Specify	Escutcheon* Trim - Specify
1-3/4" (44mm)	(standard)	(standard)
1-7/8" (48mm)	D178	D178
2" (51mm)	D200	D200
2-1/8" (54mm)	D218	D218
2-1/4" (57mm)	D214	D214

### Strikes

Available for ML2000HS and ML2000VR

ANSI Lip to Center	ANSI Straight Lip Specify	Curved Lip Specify
1-1/8" (29mm)	(standard)	SA118
1-1/4" (32mm)	SS114	SA114
1-3/8" (35mm)	SS138	SA138
1-1/2" (38mm)	SS112	SA112
1-3/4" (44mm)	SS134	SA134
2" (51mm)	SS200	SA200
2-1/4" (57mm)	SS214	SA214
2-1/2" (64mm)	SS212	SA212
2-3/4" (70mm)	SS234	SA234
3" (76mm)	SS300	SA300
Open Back Strike	Door Thickness	Specify
	1-3/4" (44mm)	SB134
	2" (51mm)	SB200
	2-1/4" (57mm)	SB214
Rabbeted front and strike	–	Specify SR118

### Electric Accessories

Description	Specify
Power supply 1.0 Amp @ 12 VDC output	BPS-12-1
Power supply 3.0 Amp @ 12 VDC output	BPS-12-3
Power supply 1.0 Amp @ 24 VDC output	BPS-24-1
Power supply 2.0 Amp @ 24 VDC output	BPS-24-2
Power supply 4.0 Amp @ 24 VDC output	BPS-24-4

# Features

## HP3000 Series Tubular Lock with Push/Pull Paddle Trim

The HP3000 tubular Lock with push/pull paddle trim provides an aesthetically pleasing alternative to products with standard push/pull trim. Its heavy-duty design and ANSI/BHMA Grade 1 strength help it to withstand abuse from rigorous environments. Multiple mounting orientations, hands free operation and a sleek, aesthetic form, make the HP3000 ideal for use in healthcare facilities and educational facilities.



U.S. Patent Numbers: D646,548S;  
D646,549S

### Features

#### Handing

Passage (HP3010) function is non-handed.  
Privacy (HP3020) function is handed.  
Specify hand.

#### Door Thickness

1-3/4" (44mm) standard.  
Optional door thicknesses available;  
see Quick Codes, page 25.

#### Backset

5" (127mm) standard.  
Optional: 2-3/4" (70mm) and 7"  
(177mm); see Quick Codes, page 25.

#### Latchbolt

Brass, 1/2" (13mm) throw

#### Strike

ANSI curved lip strike standard,  
4-7/8" x 1-1/4" x 1-1/4" lip to center.  
Optional strikes, lip lengths and ANSI  
wrought strike box available; See  
Quick Codes, page 25.

#### Covers

Cast stainless steel or bronze

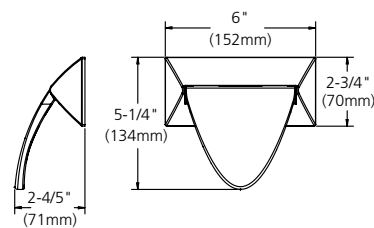
#### Paddles

Cast stainless steel or bronze

#### Mounting Options

Paddle trim can be mounted as  
horizontal (up or down) and vertical  
(sideways) orientations in the field.

#### Cover and Paddle Dimensions



#### Warranty

One-year limited

### Certification/Compliance

#### ANSI

Meets A156.2 Series 1000 Grade 1.

#### UL/cUL

Listed for use on 3 hour fire doors (4' x  
8' single and smaller doors). UL symbol  
on front stamped letter F indicates  
listing.

Any retrofit or other field modification  
to a fire rated opening can potentially  
impact the fire rating of the opening,  
and Corbin Russwin, Inc. 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.

#### ADA

Meets A117.1 Accessibility Code.

## HP3000 Series Tubular Lock with Push/Pull Paddle Trim

### Functions

Series/Function	Type	Function Description
HP3010	Passage Set	<ul style="list-style-type: none"> <li>• Both paddles retract latch</li> <li>• Ideal for patient rooms and closets</li> </ul>
HP3020	Privacy Set	<ul style="list-style-type: none"> <li>• Inside paddle always retracts latch</li> <li>• Outside paddle retracts latch, except when locked by inside push button</li> <li>• Closing door unlocks outside paddle</li> <li>• Includes emergency release</li> <li>• Vertical orientation required</li> <li>• Ideal for bathrooms</li> </ul>

# Strikes/Kits

## HP3000 Series Tubular Lock with Push/Pull Paddle Trim

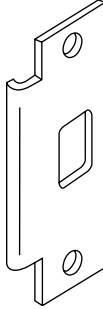
### Strikes

#### ANSI Curved Lip

(Standard)

Brass, bronze or stainless steel, 4-7/8" (124mm) x 1-1/4" (57mm) x 1-1/4" (57mm) lip to center.

To order with push/pull paddle trim, see Quick Codes, page 25. To order separately, specify 217L13 x Finish.

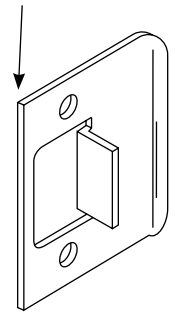


#### Full Lip Strike (SF114)

Brass, 2-1/4" x 1-3/4" x 1-1/4" lip to center. No optional lip lengths.

To order separately specify 680L50M020 x Finish.  
Anti-rattle tab.

Square Corners

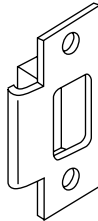


#### Curved Lip Box

(Optional)

Brass, 2-3/4" (70mm) x 1-1/8" (29mm) x 1-1/4" (57mm) lip to center.

To order with push/pull paddle trim, see Quick Codes, page 25. To order separately, specify 586L19 x Finish.

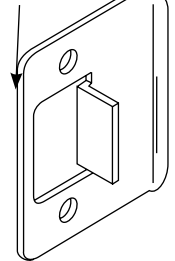


#### Full Lip Strike – 1/4" Radius Corners (SFR114)

Brass, 2-1/4" x 1-3/4" x 1-1/4" lip to center. No optional lip lengths.

To order separately specify 680L51M020 x Finish.  
Anti-rattle tab.

1/4" Radius Corners



#### ANSI Wrought Strike Box

To order with push/pull paddle trim, see Quick Codes, page 25.

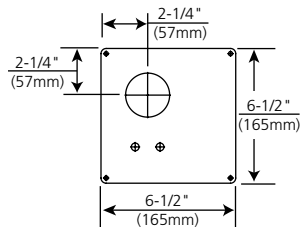
To order separately, specify 120F76.



### Kits

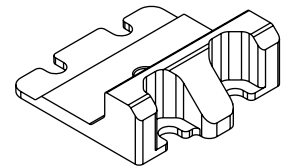
#### Kit for Retrofitting HP3000 Push/Pull Paddle Trim

Use to cover prep from HL10 series push/pull trim and other manufacturer's trim, when retrofitting HP3000 trim. Contains 2 retrofit plates and 8 screws. Available in 630 finish only. To order, specify 791F39.



#### Positive Pull Stop Kit

Used on openings where weather stripping is installed or when door closers are not utilized, this kit prevents the latch from retracting when pulling door closed. Contains 2 wood screws, 2 machine screws and instructions. To order, specify 813F068.





# How to Order/Quick Codes

## HP3000 Series Tubular Lock with Push/Pull Paddle Trim

### Ordering Examples

#### Stock Order

Quantity	Series/Function	Trim	Finish	Hand
12	HP3010	HPSK	630	RH

#### Contract / Detailed Order

Quantity	Series/Function	Trim	Finish	Hand*	Optional Strike	Misc. Options
12	HP3020	HPSK	630	RH	SA214	M38

\* Note: Passage (HP3010) function is non-handed and privacy (HP3020) function is handed.

### Miscellaneous Options

Description	Specify
Spanner head screws	M02
Torx® head screws	M04
Hex head screws	M05
Latch front, rounded corners	M13
ANSI wrought strike box	M17
Lead lining. Specify Push or Pull side.	M28
"PUSH & PULL" Identification*	M38

\*Non-Handed.

### Strikes

Lip to Center	ANSI Curved Lip, Specify	Curved Lip Box, Specify	Full Lip, Specify
1" (25mm)	SA100	SC100	N/A
1-1/8" (29mm)	SA118	SC118	N/A
1-1/4" (32mm)	(standard)	SC114	SF114**
1-3/8" (35mm)	SA138	SC138	N/A
1-1/2" (38mm)	SA112	SC112	N/A
1-3/4" (44mm)	SA134	SC134	N/A
2" (51mm)	SA200	SC200	N/A
2-1/4" (57mm)	SA214	SC214	N/A
2-1/2" (28mm)	SA212	SC212	N/A
2-3/4" (70mm)	SA234	SC234	N/A
3" (76mm)	SA300	SC300	N/A

\*\*Specify SFR114 for rounded corner.

### Backset (5" - Standard)

Description	Specify
5" (127mm)	(standard)
2-3/4" (70mm)	B234
7" (177mm)	B700

### Door Thickness

Description	Specify
1-3/4" (44mm)	(standard)
2" (51mm)	D200
2-1/4" (57mm)	D214

### Finishes

	Description	Specify
BHMA 605 (US3)	Bright Brass	605
BHMA 606 (US4)	Satin Brass	606
BHMA 611 (US9)	Bright Bronze	611
BHMA 612 (US10)	Satin Bronze	612
BHMA 613 (US10B)	Dark Oxidized Satin Bronze, Oil Rubbed	613
613L	Dark Oxidized Satin Bronze, Clear Coated	613L
BHMA 618 (US14)	Bright Nickel Plated	618
BHMA 619 (US15)	Satin Nickel Plated	619
BHMA 629 (US32)	Bright Stainless Steel	629
BHMA 630 (US32D)	Satin Stainless Steel	630
630C	Satin Stainless Steel with MicroShield®	630C
BHMA 722 (US10A)	Black Oxidized Bronze, oil rubbed	722

# Features/Functions

## Anti-Harm Knob (HSS)

The anti-harm knob is designed for safety and security by eliminating catch points with a tapered knob recessed into the rose, a tapered thumbturn (for mortise lock thumbturn functions) with Torx® pin security screws, tapered cylinder collars and concealed mounting screws. Available as sectional trim, the anti-harm knob features recessed finger holes for a better grip and the reliability of the ML2000 ANSI/BHMA grade 1 mortise lock. Ideal for psychiatric or detention facilities.



### Features

#### Handing

Handed; quick reversible. The lockset can be re-handed without disassembling the lock case.

#### Door Thickness

1-3/4" (44mm) standard.  
Optional door thicknesses available; see Quick Codes, page 27.

#### Backset

2-3/4" (70mm).

#### Lockcase

Heavy-gauge steel,  
5-7/8" (149mm) x 4" (102mm) x 15/16" (24mm).

#### Front

Heavy-gauge steel, 8" (203mm) x 1-1/4" (32mm) x -3/32" (2mm). Accommodates flat doors and doors beveled 1/8" (3mm) in 2" (51mm).

#### Armored Front

Wrought brass, bronze or stainless steel attached by machine screws to lockcase front.

#### Latchbolt

2-piece mechanical with anti-friction insert, 5/8" (16mm) x 1" (25mm) x 3/4" (19mm) throw.

#### Auxiliary Latchbolt

9/16" (14mm) effective throw and 3/8" (10mm) effective auxiliary latch deadlocking.

#### Deadbolt

One-piece stainless steel, 19/32" (15mm) x 1-1/4" (32mm) x 1" (25mm) throw.

#### Hub

Lever: steel, 5/16" (8mm).

#### Strike

Wrought brass, bronze or stainless steel, ANSI straight lip standard, 4-7/8" (124mm) x 1-1/4" (32mm) x 1-1/8" (29mm) lip to center. Optional strikes, lip lengths and ANSI wrought strike box available; see Quick Codes, page 27.

#### Thumbturn

Cast stainless steel construction. See page 28.

#### Cylinder

Brass, 6-pin, L4 keyway, 0-bitted standard. Brass, fixed 6-pin conventional fixed core cylinder, L4 keyway standard for ML2000HS. Optional cylinders available; see Quick Codes, page 27.

#### Keys

Two nickel silver standard.

#### Keying Features Available

Master keying  
Construction master keying  
Visual key control  
Concealed key control  
7-pin cylinder  
Security cylinder  
Pyramid cylinder  
Interchangeable core (IC)  
Security IC  
Pyramid IC  
Blockout cylinder

#### Functions

Available with all ML2000 functions except ML2050, 2070 and 2080

#### Warranty

Ten-year limited.

### Certification/Compliance

#### ANSI

Meets A156.13 Series 1000, Operational and Security Grade 1.

#### Federal

Meets FF-H-106C.

UL /ULC-UL10C Positive Pressure

All locks listed for A label and lesser class doors, 4' (122cm) x 10' (305cm) single or 8' (244cm) x 10' (305cm) pair. Letter F and UL symbol on armored front indicate listing.

Any retrofit or other field modification to a fire rated opening can potentially impact the fire rating of the opening, and Corbin Russwin, Inc. 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.

#### Windstorm/Hurricane

Certified (refer to local codes).

#### Finish

BHMA 606 (US4)	Satin Brass
BHMA 626 (US26D)	Satin Chromium Plated
626C	Satin Chromium Plated with MicroShield®

# How to Order/Quick Codes

## Anti-Harm Knob (HSS)

### How to Order

#### Anti-Harm Knob (HSS) Trim – HSS Knob x HSS Knob

Quantity	Series/Function	Trim	Finish	Hand
6	ML2032	HSS	626	RH

#### Anti-Harm Knob (HSS) Trim – Lever Trim x HSS Knob

Quantity	Series/Function	Trim		Finish	Hand
		Outside	Inside		
6	ML2055	NSA	HSS	626C	RH

### Miscellaneous Options

Description	Specify
ANSI wrought strike box	M17
Working trim only	M31
Latch hold back (for ML2042, ML2052, ML2055, ML2051, ML2057 only)	LHB*

\* Must use A02 cam when LHB is specified

### Door Thickness

Door Thickness	Sectional Trim - Specify	Escutcheon* Trim - Specify
1-3/4" (44mm)	(standard)	(standard)
1-7/8" (48mm)	D178	D178
2" (51mm)	D200	D200
2-1/8" (54mm)	D218	D218
2-1/4" (57mm)	D214	D214

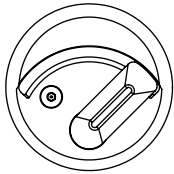
### Strikes

Available for ML2000HS and ML2000VR

ANSI Lip to Center	ANSI Straight Lip Specify	Curved Lip Specify
1-1/8" (29mm)	(standard)	SA118
1-1/4" (32mm)	SS114	SA114
1-3/8" (35mm)	SS138	SA138
1-1/2" (38mm)	SS112	SA112
1-3/4" (44mm)	SS134	SA134
2" (51mm)	SS200	SA200
2-1/4" (57mm)	SS214	SA214
2-1/2" (64mm)	SS212	SA212
2-3/4" (70mm)	SS234	SA234
3" (76mm)	SS300	SA300
Open Back Strike	Door Thickness	Specify
	1-3/4" (44mm)	SB134
	2" (51mm)	SB200
	2-1/4" (57mm)	SB214
Rabbeted front and strike	–	Specify SR118

# Thumbturns

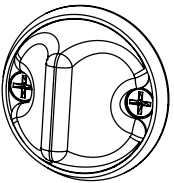
## Anti-Harm Knob (HSS)



### BHSS Thumbturn

Stainless steel. Used on functions utilizing a thumbturn. Sectional trim only. To order, see table.  
**Plate Size:** 2-1/4" (57mm) diameter

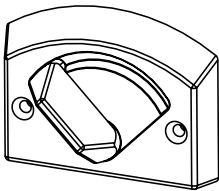
Door	Packet
1-3/4" (44mm)	813F177 x FIN
2" (51mm)	813F187 x FIN
2-1/4" (57mm)	813F097 x FIN



### BLSS Thumbturn

Cast bronze or stainless steel. Used on functions utilizing a thumbturn. Sectional trim only. To order, see table.  
**Plate Size:** 1-3/4" (44mm) diameter

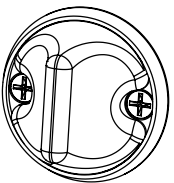
Door	Packet
1-3/4" (44mm)	813F92M x FIN
2" (51mm)	813F93M x FIN
2-1/4" (57mm)	813F94M x FIN



### HPSK Thumbturn

Cast bronze or stainless steel. Used on functions utilizing a thumbturn. Sectional trim only. To order, see table.  
**Plate Size:** 2-3/4" (70mm) x 2" (50mm)

Door	Packet
1-3/8" (35mm)	723F72M x FIN
1-3/4" (44mm)	723F78M x FIN
2-1/4" (57mm)	723F90M x FIN
Up to 4" (102mm)	723F84M x FIN



### HSS Thumbturn

Cast bronze or stainless steel. Used on functions utilizing a thumbturn. Sectional trim only. To order, see table.  
**Plate Size:** 1-3/4" (44mm) diameter

Door	Packet
1-3/4" (44mm)	723F04M x FIN
2" (51mm)	723F05M x FIN
2-1/4" (57mm)	723F06M x FIN

# Architectural Specifications

## ML2000 Series

### Mortise Locks with BHSS and BLSS Trim

- A. Ligature Resistant, Mortise: ANSI/BHMA A156.13, Series 1000, Operational and Security Grade 1 mortise type manufactured to accepted OMH requirements with ligature-resistant lever and escutcheon trim. Locksets to be manufactured with a corrosion resistant, formed steel case. Levers and escutcheons are manufactured from stainless steel material. Provide optional lead-lining (lock body), Torx® fasteners, and Antimicrobial coating as specified in Hardware Sets.
  1. Acceptable Manufacturers:
    - a. Sargent Manufacturing (SA) - 8200 BHW Series
    - b. Corbin Russwin (RU) – ML2000 BHSS Series
    - c. Accurate Lock (AC) – CP Crescent Pull Series (with Teflon pad)
  
- B. Ligature Resistant, Mortise: ANSI/BHMA A156.13, Series 1000, Operational and Security Grade 1 mortise type manufactured to [accepted] [Use with caution] OMH requirements with ligature-resistant lever and rose trim. Locksets to be manufactured with a corrosion resistant, formed steel case. Levers and roses are manufactured from stainless steel material. Provide optional lead-lining (lock body), Torx® fasteners, and Antimicrobial coating as specified in Hardware Sets.
  1. Acceptable Manufacturers:
    - a. Sargent Manufacturing (SA) - 8200 BHL Series
    - b. Corbin Russwin (RU) – ML2000 BLSS Series
    - c. Best Lock (BE) – SPSL Series
    - d. Town Steel (TS) – MRX-L Series

## ML2000 and ML20900 Series (HPSK)

### Mortise Locks with Push/Pull Paddle Trim

1. All locksets shall be ML2000 Series Mortise Locksets as manufactured by Corbin Russwin Architectural Hardware, Berlin, CT.
2. Locks shall meet or exceed the requirements of ANSI/BHMA A156.13 Series 1000, Operational Grade 1, and Security Grade 1 with all standard trims.
3. Locks shall be easily re-handed without opening the lock body.
4. Locks required for fire doors shall be listed by Underwriters Laboratories for ratings of A label (3 hours) and less, for doors up to 4'0" (1.2m) x 10'0" (3.05m) and pairs of doors 8'0" (2.4m) x 10'0" (3.05m)
5. Construction:
  - a. Lock functions shall be manufactured in a single-sized case formed from 12 gauge steel minimum.
  - b. Lock cases shall be closed on all sides and back.
  - c. Locks shall have field adjustable, beveled, armored front, with a 1/8" (3mm) thickness minimum.
  - d. Locks shall have a one piece, 3/4" (19mm) throw anti-friction stainless steel latch.
  - e. Deadbolts, where specified, shall be full one inch (25mm) throw made of one-piece hardened stainless steel.
6. Lockset paddles shall be capable of horizontal or vertical mounting positions.
7. Locks shall have a 2-3/4" (70mm) backset, standard.
8. Strikes shall be non-handed with a curved lip.
9. Locks shall have brass 6-Pin cylinder, standard.
10. Locks shall have a 10 year limited warranty. 2 year limited warranty on electrified locks.

## HP3000 Series

# Architectural Specifications

## **Tubular Lock with Push/Pull Paddle Trim**

1. Tubular hospital locks shall be HP3000 series as manufactured by Corbin Russwin Architectural Hardware, Berlin, CT.
2. Locks shall meet or exceed requirements of ANSI/BHMA A156.2 Series 1000 Grade 1.
3. Locks shall be easily re-handed with a non-handed curved lip strike.
4. Locks shall be listed for use on 3 hour fire doors (4' x 8' single and smaller doors).
5. Locks shall comply with UL10C and UBC 7-2 positive pressure requirements.
6. Lockset paddles shall be capable of horizontal or vertical mounting positions.
7. Locks shall have 2-3/4", 5" or 7" backset available.
8. Locks shall have one-year limited warranty.





**ASSA ABLOY**

**In U.S.**

Corbin Russwin  
Architectural Hardware  
225 Episcopal Road  
Berlin, CT 06037  
Phone: 800-543-3658  
Fax: 800-447-6714  
corbinrusswin.com

**In Canada**

ASSA ABLOY Door  
Security Solutions Canada  
160 Four Valley Drive  
Vaughan, Ontario  
Canada L4K 4T9  
Phone: 800-461-3007  
Fax: 905-738-2478  
www.assaabloy.ca

For more information regarding Corbin Russwin Locksets, Exit Devices, Door Controls and Key Systems, contact your authorized Corbin Russwin Distributor or Sales Representative.



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