

FM7100 Series

Multi-Point Lock

DISCONTINUED



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FM7100 Series Multi-Point Lock

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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 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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On The Cover

- FM7100 X ECMH

Introduction & Features

FM7100 Series Multi-Point Lock

SARGENT FM7100 Series multi-point lock was developed to help protect lives while securing a community shelter and safe room entry. Sturdy heavy-duty steel components firmly secure the door within the frame – at top, bottom and center latch points – securing the opening during a windstorm event. The FM7100 Series is UL approved for FEMA P-320 (2014), FEMA P-361 (2015) and ICC 500 (2014) applications. This lock will withstand severe wind speeds and flying debris. This device consists of concealed vertical rods with top and bottom latching complemented by an automatically projecting deadbolt at the center of the door. The device is operated by dual mounted EC controls (similar to the 80 Series ET Controls).

The EC control operates by pushing the top bolt out of the door or storm shutter and into the frame while retracting the bottom bolt and deadbolt simultaneously. Once retracted the bolts are held in position as the door swings. As the door closes, the hold back feature in the lock engages the frame: all bolts project simultaneously. Once secured, the occupants are protected against threatening conditions.

EC controls are available with a variety of functions which include classroom, passage and passage x blank plate. All FM7100 Series devices are fire rated and can be used on fire rated doors (4' x 8').

Note: Any retrofit or other field modification to a fire rated opening can potentially impact the fire rating of the opening, and Sargent Manufacturing Company 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.

Innovation

- Unique and robust multi-point lock engineered to help save lives
 - Integrated with the CECO StormPro® 361, CURRIES StormPro® 361, FLEMING BARON F-5 doors and frames and McKINNEY hinges provides an opening meeting FEMA guidelines for:
 - FEMA P-320 (2014) (residential safe rooms design and construction)
 - FEMA P-361 (2015) (building community shelters design and construction for tornado and hurricane protection)
 - ICC 500 (2014) (Standard for the Design and Construction of Storm Shelters)
 - For Windstorm Certifications, see page 4

Applications

- Perfect for community refuge areas – where people seek protection from strong wind events
- Community shelters and safe rooms, corporate campuses, schools, healthcare facilities and government facilities

Strength & Durability

- UL 3-hour fire rating
- Extra-heavy duty steel components automatically secure the door to the frame
 - In multiple locations: top, bottom and center latch points
 - Fortifies opening to withstand extreme wind speeds and flying debris
- Heavy duty escutcheons standard
- Fortified with high tensile alloy Holo-Krome® fasteners
- Thru bolts on door for solid attachment

Features

All latching points activate automatically when door is closed and retract with one single motion upon exit

- Both inswing and outswing applications
- Solid cast levers

Three functions available:

- Classroom
 - Passage
 - Passage Lever x Blank Plate
- Seven year limited warranty

Windstorm: UL & Florida Certifications

FM7100 Series Multi-Point Lock



Windstorm Certifications: Florida Building Codes & UL Listings

SARGENT Manufacturing's products meet building codes that require hurricane, windstorm and FEMA certifications, including some of the most stringent building codes as specified in the Florida Building Code, Miami Dade Code and the International Building Code. Listed below are certifications and standards met by the FM7100 Series multi-point lock.

Florida Building Code: FL2998

UL Certification Directory: ZHEM.R21744 – Latching Hardware

ANSI/SDI-BHMA A250.13	"Testing and Rating of Severe Windstorm Resistant Components for Swinging Door Assemblies"
ANSI/ASTM E330	"Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference"
ANSI/ASTM E1886	"Standard Test Method for Performance of Exterior Windows, Curtain Walls, Doors, and Impact Protective Systems Impacted by Missile(s) and Exposed to Cyclic Pressure Differentials"
ASTM E1996	"Standard Specification for Performance of Exterior Windows, Curtain Walls, Doors and Impact Protective Systems Impacted by Windborne Debris in Hurricanes"
(TAS) 201	"Impact Test Procedures"*
(TAS) 202	"Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference"
(TAS) 203	"Criteria for Testing Products Subject to Cyclic Wind Pressure Loading"*

* Published in the "Florida Building Code"

UL Certification Directory: ZHLL.R21744 – Products for Use in Windstorm-rated Assemblies

Certifications to meet assembly requirements are done in conjunction with doors from ASSA ABLOY Group companies CECO DOOR and CURRIES.

ASTM E330	"Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference"
ANSI/ASTM E1886	"Standard Test Method for Performance of Exterior Windows, Curtain Walls, Doors, and Impact Protective Systems Impacted by Missile(s) and Exposed to Cyclic Pressure Differentials"
ASTM E1996	"Standard Specification for Performance of Exterior Windows, Curtain Walls, Doors and Impact Protective Systems Impacted by Windborne Debris in Hurricanes"
AAMA/WDMA/CSA 101/I.S.2/A440	"Standard/Specification for Windows, Doors, and Unit Skylights"
FEMA Publication P-320 (2014)	"Taking Shelter From the Storm: Building a Safe Room for Your Home or Small Business", investigated with respect to impact and pressure requirements only
FEMA Publication P-361 (2015)	"Design and Construction Guidance for Community Safe Rooms", investigated with respect to impact and pressure requirements only
ICC 500 (2014)	"ICC/NSSA Standard for the Design and Construction of Storm Shelters", investigated with respect to impact and pressure testing. Minimum missile impact speeds vary with the design wind speed desired for a particular product. The information below correlates design wind speed to the minimum missile speeds as discussed in Table 305.1.1 of ICC 500 (2014)

Specifications

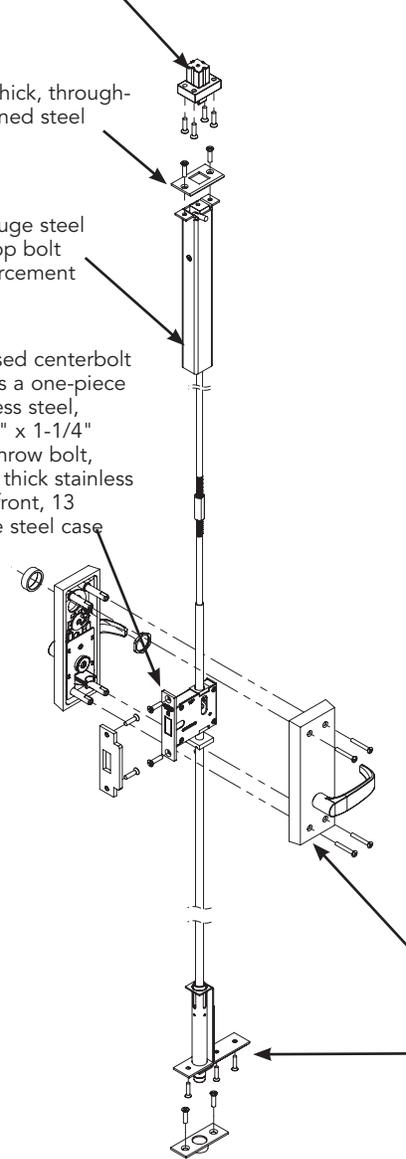
FM7100 Series Multi-Point Lock

5/8" stainless steel latch housing through-hardened steel latchbolt, 7/8" projection, 1/4-20 steel Holo-Krome® mounting screws

1/8" thick, through-hardened steel front

11 gauge steel 12" top bolt reinforcement

Mortised centerbolt utilizes a one-piece stainless steel, 19/32" x 1-1/4" x 1" throw bolt, 3/16" thick stainless steel front, 13 gauge steel case & cap



Features

- Integrated with CECO StormPro® 361, CURRIES StormPro® 361 and FLEMING BARON F-5 doors and frames and McKINNEY hinges provide a multi-point auto deadlocking system
- Meets FEMA P-320 (2014), FEMA P-361 (2015) and ICC 500 (2014) Guidelines for both inswing and outswing doors
- Concealed rods offer additional security
- All functions determined by outside trim

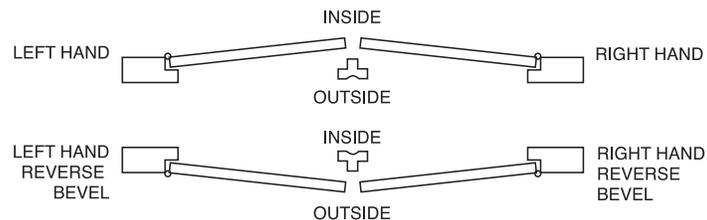
Specifications

For Doors	1-3/4" thick door only; Fully integrated – FM7100 Series is part of a complete ASSA ABLOY windstorm solution utilizing CECO StormPro® 361, CURRIES StormPro® 361, FLEMING F-5 doors and frames and McKINNEY® hinges
Mounting	Supplied fasteners are for metal doors with through-bolts for trim
Hand	Handed; specify RHR, LHR, RH or LH
Top Bolt	Hardened steel with 7/8" projection in a 5/8" stainless steel housing
Bottom Bolt	Steel 3/4" diameter with 3/4" projection with 1/8" steel plate
Center Bolt	One-piece stainless steel, 19/32" x 1-1/4" x 1" throw
Lock Front	1-1/8" x 4-7/8" x 3/16" thick stainless steel, one piece
Center Bolt Strike	1/4" thick stainless steel
Backset	2-3/4" standard
Door Thickness	1-3/4" standard
Door Height	Two adjustable ranges available: 6'8" - 8'0" & 5'6" - 6'8" Meets FEMA P-320 (2014), FEMA P-361 (2015) and ICC 500 (2014) Guidelines for both inswing and outswing doors
Maximum Opening	Single door 4'0" x 8'0" and double doors 8'0" x 8'0"
Trim	EC trim with Standard, Coastal Series or Studio Collection levers
Functions	- Classroom - Passage - Passage Lever x Blank Plate
Cylinder	#41 Mortise Cylinder

Solid brass lever and heavy duty escutcheon

1/8" steel reinforcement plate
3/4" steel nylon coated lower bolt,
3/4" projection

Hand

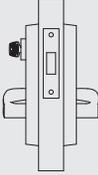
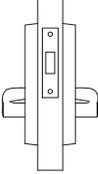


DOOR HANDS DETERMINED FROM OUTSIDE OF DOOR OR SECURED SIDE

Functions and Descriptions

FM7100 Series Multi-Point Lock



How to Order		Outside EC Function	Inside EC Function	
Product Designation	SARGENT Function Numbers	Outside Function Description	SARGENT Function Numbers / Inside Function Description	
FM7113	13	<ul style="list-style-type: none"> Multi-point auto deadlocking system Multi-point latch retraction by lever either side, unless outside lever is locked by key outside Inside lever always free 		15 / Classroom
FM7115	15	<ul style="list-style-type: none"> Multi-point auto deadlocking system Multi-point latch retraction by lever either side Both levers always free 		15 / Passage Only (No cylinder)
FM7101	01	<ul style="list-style-type: none"> Multi-point auto deadlocking system Multi-point latch retraction by inside lever Lever on one side, blank plate on the other Lever always free 		15 / Inside Passage

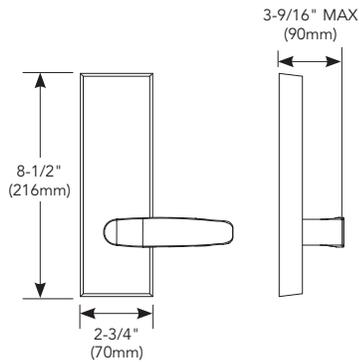
Note: Product designation is determined by function of outside trim. The inside trim is always 15 function, which allows for free egress. Function combinations not shown may be available as a special. Consult factory

EC Trim, Standard & Coastal Series Levers

FM7100 Series Multi-Point Lock

EC Lever Controls

The EC Control mounts on each side of the door. The outside EC Control determines the function of the entire device. The inside EC Control provides a passage function. Easy operating lever handle allows convenient one hand operation. Decorative Coastal Series Levers and Studio Collection levers are available. All levers are brass. For stainless steel levers consult factory.



Standard and Coastal Series Levers

A Lever Design

- Lever: A-Solid forged or cast
- Must specify hand when ordering



B Lever Design

- Lever: B-Solid forged or cast



E Lever Design

- Lever: E-Solid forged or cast



F Lever Design

- Lever: F-Solid forged or cast



J Lever Design

- Lever: J-Solid bar stock



L Lever Design

- Lever: L-Solid forged or cast



P Lever Design

- Lever: P-Solid forged or cast



W Lever Design

- Lever: W-Solid bar stock



Coastal Series™ Levers

- Solid cast brass

G - Gulfport™

- Must specify hand when ordering



R - Rockport™



S - Sanibel™

- Must specify hand when ordering



Y - Yarmouth™

- Must specify hand when ordering



Studio Collection Levers

FM7100 Series Multi-Point Lock

SARGENT
ASSA ABLOY

Aventura Series		
Lever	Design	Handed
MB		-
ME		-
MF		-
MG		-
MI		-
MW*		-
NF		-
Odeon Series		
MN		Yes
MH		Yes
MK		Yes
MS		Yes
MU		Yes
MV		Yes
NS*		Yes
NU*		Yes
MX*		Yes

Notting Hill Series		
Lever	Design	Handed
MA		Yes
MQ		Yes
MT		Yes
MM		Yes
MY*		Yes
Rialto Series		
MO		Yes
MZ*		Yes

Centro Series		
Lever	Design	Handed
MC		-
MD		-
MJ		-
MP		-
ND*		-
NJ*		-

Features

- Levers with curves and contours provide a comfortable grip
- All levers meet ADA compliance for national codes
- All levers – solid brass (for stainless steel consult factory)

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* Lever returns within 1/2" (13mm) of door face

Studio Collection Levers

FM7100 Series Multi-Point Lock

Gramercy Series ²		
Lever	Design	Handed
RCM		-
RAL		-
REM		-
RAM		-
RAS		-
RAG		-
RGM		-
Wooster Square ³		
H001		-
H002 ¹		-
H003		-
H004		-
H005 ¹		-
H006 ¹		-

Grant Park		
Lever	Design	Handed
H007		-
H008		Yes
H009		-
H010		-
H011		-

Mechanical & Cylinder Options

FM7100 Series Multi-Point Lock

Mechanical Options:

Features	Option	Description
Security Fasteners	36-	Six lobe security head screws
Tactile Warning Options	75-	Tactile Warning -Milled Inside Lever (Not available with Studio & Coastal Series Levers and the A Lever)
	76-	Tactile Warning -Milled Outside Lever (Not available with Studio & Coastal Series Levers and the A Lever)
	77-	Tactile Warning -Milled Inside & Outside Lever (Not available with Studio & Coastal Series Levers and the A Lever)
	85-	Tactile Warning -Abrasive Coating on Inside Lever
	86-	Tactile Warning -Abrasive Coating on Outside Lever
Finish Protection	87-	Tactile Warning -Abrasive Coating on Outside Lever & Inside Lever
	CPC-	Clear Powder Coat (Available for 26 & 26D Finishes)
	SG-	MicroShield® antimicrobial clear powder coat (only available with 15 and 26D finishes)

Cylinder Options:

Cylinder Type	Option	Description
Conventional Cylinder	Std	SARGENT Conventional Cylinders
Degree Key System	DG1-	SARGENT Degree Key System Level 1 (Bump and pick resistant)
	DG1-21-	Degree Level 1 Construction Master Keying
	DG1-60-	Degree Level 1 Removable Disposable Construction Core
	DG1-63-	Degree Level 1 Removable Core
	DG1-64-	Degree Level 1 Removable Construction Keyed LFIC
	DG1-65-	Degree Level 1 Unassembled/Uncombined Core
	DG1-78-	Degree Level 1 Exposed Plug (For use with LE3/LE4 escutcheons only)
	DG2-	SARGENT Degree Key System Level 2 (Geographically exclusive; bump and pick resistant)
	DG2-21-	Degree Level 2 Construction Master Keying
	DG2-60-	Degree Level 2 Removable Disposable Construction Core
	DG2-63-	Degree Level 2 Removable Core
	DG2-64-	Degree Level 2 Removable Construction Keyed LFIC
	DG2-65-	Degree Level 2 Unassembled/Uncombined Core
	DG2-78-	Degree Level 2 Exposed Plug (For use with LE3/LE4 escutcheons only)
	DG3-	SARGENT Degree Key System Level 3 (Geographically exclusive; UL437 certified; bump and pick resistant)
	DG3-21-	Degree Level 3 Construction Master Keying
	DG3-60-	Degree Level 3 Removable Disposable Construction Core
DG3-63-	Degree Level 3 Removable Core	
DG3-64-	Degree Level 3 Removable Construction Keyed LFIC	
DG3-78-	Degree Level 3 Exposed Plug (For use with LE3/LE4 escutcheons only)	
Signature Key System	10-	SARGENT Signature Key System (Not Available with other Key Systems)
	10-21-	SARGENT Signature Construction Key System (Lost Ball)
Signature: Large Format Interchangeable Core (Removable Core)	10-63-	SARGENT Signature LFIC (Removable Core) Cylinder
XC- Key System	11-	XC Key System (Not Available with other Key Systems, Unless specified)
	11-21-	XC- Construction Key System (Lost Ball)

Cylinder Options

FM7100 Series Multi-Point Lock

Cylinder Options:

Cylinder Type	Option	Description
XC- Large Format Interchangeable Core + (Removable Core)	11-60-	Hardware to accept XC- Permanent LFIC (Removable Core), Disposable plastic Core- provided
	11-63-	Hardware provided with XC- LFIC (Removable Core) Cylinder - (Includes masterkeying, grand masterkeying)
	11-64-	Hardware provided with Keyed construction core to accept XCLFIC (Removable) Permanent Core (ordered Separately)
XC- Small Format Interchangeable Cores +	11-70-7P-	Hardware to accept XC- SFIC (7 Pin) XC- Permanent Cores, plastic disposable core provided
	11-72-7P-	Hardware to accept XC- SFIC (7-pin Keyed Construction Core provided) cylinder Permanent core ordered separately
	11-73-7P-	Hardware supplied with XC- Small Format 7-Pin interchangeable core (Includes masterkeying, grand masterkeying)
	11-65-73-7P	Hardware provided to accept XC- Uncombined 7-Pin SFIC (Permanent) Core - (Packed Loose)
Construction Key Systems	21-	SARGENT Lost Ball Construction Keying for Conventional, XC and Signature Series (N/A with 63-, 73-, 82-, SC- & SE-)
	22-	SARGENT Construction Split Key System for Conventional Cylinders (Existing Systems) (N/A with 10-, 11-, 63-, 73-, 82-, SC- & SE-)
Old Style Removable Core	51-	Removable Core Cylinder (Old Style) provided (Existing systems only)
	52-	Removable Construction Core (Old Style) Permanent core ordered separately (existing systems only)
Large Format Interchangeable Core (Removable Core)	60-	Hardware to accept SARGENT Permanent LFIC (Removable Core), Disposable Plastic Core provided (Permanent Cores ordered separately)
	63-	Hardware provided with LFIC (Removable Core) Cylinder - (Includes masterkeying, grand masterkeying)
	64-	Hardware provided with Keyed construction core to accept LFIC (Removable) (Permanent Core ordered separately)
Small Format Interchangeable Cores	70-	Hardware to accept 6- or 7-Pin SFIC Permanent Cores, plastic disposable core provided
	72-	Hardware to accept 6- or 7-Pin SFIC (Keyed Construction Core provided) Cylinder (Permanent Core ordered separately)
	73-	Hardware supplied with 6-Pin SFIC (Includes masterkeying, grand masterkeying)
	65-73-	Hardware provided to accept Uncombined 6-Pin SFIC (Permanent) Core - (Packed loose for field keying)
	65-73-7P-	Hardware provided to accept Uncombined 7-Pin SFIC (Permanent) Core - (Packed loose for field keying)
	73-7P-	Hardware supplied with Small Format 7-Pin Interchangeable Core (Includes masterkeying, grand masterkeying)
Keso F1- & Keso	81-	Hardware provided with housings to accept Keso (83) & Keso F1 (F1-83-) removable cores. (Permanent Cores ordered separately)
	82-	Hardware provided with SARGENT Keso Security Cylinder
	F1-82-	Hardware provided with SARGENT Keso F1 Security Cylinder (Patented)
	83-	Hardware supplied with SARGENT Keso Security Removable Core cylinder
	F1-83-	Hardware supplied with SARGENT Keso F1 Security Removable Core cylinder (Patented)
	84-	Hardware provided with SARGENT Keso Construction Cores (Permanent Cores ordered separately)
Bump Resistant	BR-	Bump Resistant Cylinder (Available with Conventional & Conventional XC Cylinders Only)
Less Cylinder	LC-	Less Cylinder
Schlage Keyways	SC-	Schlage C keyway cylinder, 0 bitted
	SE-	Schlage E keyway cylinder, 0 bitted

How to Order & Finishes

FM7100 Series Multi-Point Lock

How to Order

11-	FM71	13	EC	MJ	RH	26D	**96"
Options	Series	*Function Designation	Escutcheon	Lever	Hand	Finish	Opening Height
Page 10 & 11	FM71 CN71	13 15 01	EC Control Standard	Pages 7-9	RH LH RHR LHR	Page 12	

Note: Certified & labeled for US markets and CN7100 is certified & labeled for Canadian Markets. The products are identical products except for the labeling

Note: For 1-3/4" thick doors only

* Function designation is determined by function of outside trim

** Available in two height ranges 5'6" – 6'8" and 6'8" – 8'0"; SARGENT will supply the correct range based on opening height specified

How to Order Trim Only

700 Series Inside EC Control Lever Type Trim		
Option	Function	Description
MP	715-3	Used with all available outside functions

700 Series Inside EC Lever Type Trim	
Trim	Function
701-3	7101
713-3	7113
715-3	7115

Trim # x EC Control x Lever Design x Finish x Hand

Example: 701-3 x ECL x 26D x RH

Finishes

SARGENT	Description	BHMA
03	Bright brass, clear coated	605
04	Satin brass, clear coated	606
09	Bright bronze, clear coated	611
10	Satin bronze, clear coated	612
10B	Dark oxidized satin bronze, oil rubbed	613
10BE	Dark oxidized satin bronze equivalent	613E
10BL	Dark oxidized satin bronze, clear coated	614
14	Bright Nickel, clear coated	618
15	Satin Nickel, clear coated	619
20D	Statuary bronze dark powder coated	624
26	Bright chromium plated	625
26D	Satin chromium plated	626
BSP	Black Suede Powder coated	
WSP	White Suede Powder coated	

FM7100 Series Fortified Multi-Point Lock

Three-Point, auto deadbolt locking devices are engineered for use on inswing and outswing door applications at windstorm safe shelter room locations. Concealed, fortified steel construction secures the door to the frame at top, bottom and center latching positions. All three latching points shall be automatically activated when the device is closed and retracted with one single motion upon exiting.

1. The Three-Point locking system device is part of an integrated door, frame and hardware assembly UL-approved to FEMA P-320 (2014), FEMA P-361 (2015) and ICC 500 (2014) guidelines for both inswing and outswing doors.
2. Units shall be manufactured in compliance with NFPA 80 and NFPA 101 life-safety requirements and approved for usage on up to 3-hour, UL 10b or 10c fire rated openings.
3. Latchbolt Construction:
 - a. Mortised Centerbolt: Single piece, 13 gauge chrome plated steel lockcase with 3/16" thick stainless steel front. Stainless steel, 1" throw deadbolt. 2-3/4" backset standard with 1/4" stainless steel centerbolt strike.
 - b. Top Latch: Through-hardened steel latchbolt with 7/8" projection, 1/8" steel latchbolt front, and 5/8" stainless steel latch housing secured with 1/4-20 Holo-Krome® fasteners.
 - c. Bottom Bolt: 3/4" diameter steel nylon coated bolt with 3/4" projection and 1/8" steel reinforcement plate. Brass strike housing secured with 1/4-20 Holo-Krome fasteners.
4. Provide devices with heavy-duty, brass escutcheon trim and solid cast levers matching the design style and architectural finishes as the balance of the lockset and latches specified.

The ASSA ABLOY Group is the global leader in access solutions. Every day, we help billions of people experience a more open world.

ASSA ABLOY Opening Solutions leads the development within door openings and products for access solutions in homes, businesses and institutions. Our offering includes doors, frames, door and window hardware, locks, perimeter fencing, access control and service.



SARGENT Manufacturing Company
100 Sargent Drive
New Haven, CT 06511 USA
800-727-5477
www.sargentlock.com

Founded in the early 1800s, SARGENT® is a market leader in locksets, cylinders, door closers, exit devices, electro-mechanical products and access control systems for new construction, renovation, and replacement applications. The company's customer base includes commercial construction, institutional, and industrial markets.
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