

Components

North American Manual

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Components

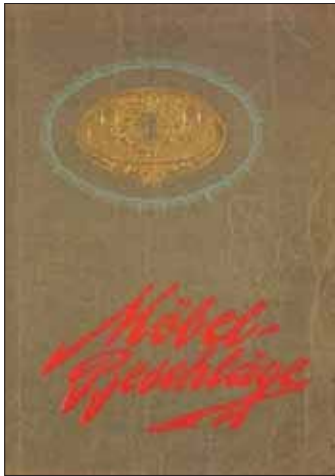
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Components

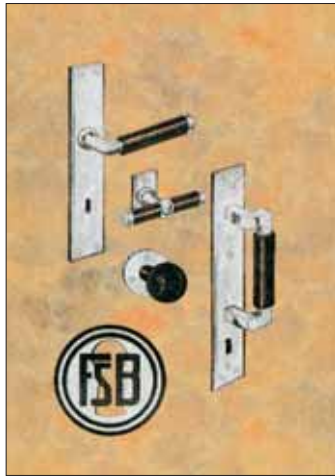
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About FSB



1881

FSB was established in 1881. Together with a modest workforce, company founder Franz Schneider produced antique-style brass cabinet fittings.



1920s

In the early 1920s, the first door and window fittings appeared in the FSB production program. The design of these years echoed the modernism of the Bauhaus era. Silver metal components were combined with black composite features.



1950s

Beginning with in-house designer Johannes Potente in the 1950s, FSB created the first handles which exemplify minimalism, modernism and ergonomics. FSB is still known for the use of these design principles today.

Four of Potente's lever designs have been included in the permanent collection of the Museum of Modern Art (MoMA).



1990s

Inspired by an international design workshop held in Brakel in 1986, FSB began engaging the market with contemporary designs in an initiative dubbed "Tour d'Europe." Throughout this initiative FSB created design suites with such renowned designers as Philippe Starck, Jasper Morrison, Richard Rogers and many others.

For the past two decades, FSB has continued to work with Architects and Designers to create handles – each with their own personality.



2000s

FSB introduces a limited range of levers supplied in complete locksets to the American design community. The first catalog was approximately 80 pages. Two later catalogs increased FSB's North American offering to nearly 100 lever designs.

In 2007, FSB expanded the North American distribution center, moving it to Madison, CT, where the majority of products are stocked in natural anodized aluminum and satin stainless steel. Stock items can be shipped in 48 hours. All non-stock items can be shipped within two to eight weeks regardless of the product type, finish or project size.

This is FSB's fourth edition for the North American market. It represents a huge step forward to offer a complete program which brings design consistency across more openings and applications.

This catalog is separated into different sections, tailored to your specific needs.

For the latest information please go to www.fsbna.com.

New Products



METRIC Bath Accessories

FSB has dedicated an entire section to a well designed range of bathroom accessories in solid stainless steel. The design principle is based on a minimal rectangular post centered on a small round escutcheon.



Sliding Door Hardware

Building owners are demanding more efficient use of space. Consequently, architects and designers are utilizing many more sliding and pocket doors.

In recognition of this trend FSB has developed an entire range of flush mounted trim for passage, privacy and entry applications. We demonstrate our penchant for divising aesthetically pleasing technical solutions by offering the market's first flush pulls with spring loaded covers, as pictured above.

A complete overview of these products is provided in the "Sliding Door Hardware" section.



Bronze

There is an increase in an "old meets new aesthetic" in which designers are combining traditional finishes with more minimal and modern design. For years, FSB has offered ten of our best selling handles in solid brass, either polished or oxidized to give them varying degrees of antiquing to suit the designers' needs.

FSB now introduces Bronze as a new material for our lever handles and accessories. The special appeal of bronze is the patina that develops on its surface. In the course of daily use, polished bronze parts darken naturally, becoming more distinguished with time.

We have created a complete section titled "Brass and Bronze Products" to cover all the products we offer in these two exceptional base materials. We offer eight bronze handles and ten brass handles for projects that may benefit from this "old meets new" aesthetic. All brass and bronze products can be oxidized to varying degrees of darkness, depending on "the mood" a designer would like to create.



Glass Door Hardware

Creating more open spaces has become a cornerstone of modern architecture. Utilizing large pieces of glass, whether for windows, doors, or walls, facilitates this objective.

FSB has broadened its glass door program to include locks and hinges for swinging glass doors as well as exposed rolling gears for sliding glass doors. These products can be found in the section "Door Pulls and Glass Door Hardware".

North American Components

FSB offers an entire range of mortise locks and tubular latches to be used in either commercial, residential or specialty applications. Both technologies can be used with over 80 standard FSB lever and doorknob designs.

In this section we are illustrating our complete lines of ANSI standard, narrow backset, European mortise locks, as well as tubular latches and bolts.

Mortise Locks

Series SM

Standard Backset Mortise For Knobs and Levers



Page 8

Series NM

Narrow Backset Mortise For Knobs and Levers



Page 15

Series EM

European Mortise For Levers only



Page 18

Tubular Latches

Series HL

Heavy Duty Lever Latch Passage only



Page 20

Series ML

Medium Duty Lever Latch Passage or Privacy



Pages 22 and 24

Series KL

Knob and Lever Latch Passage only



Page 26

Deadbolts

Series HD

Heavy Duty Privacy Deadbolt



Page 28

Series MD

Medium Duty Privacy Deadbolt



Page 30

Series KD

Keyed Deadbolt



Page 32

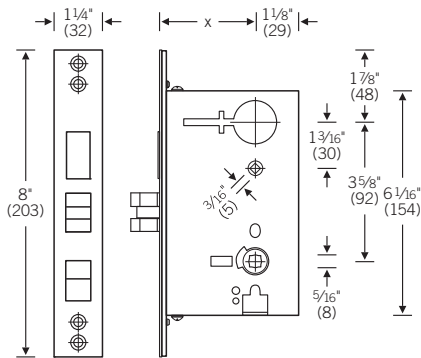
Lock and Latch Bodies

Correlation Table to Sets

Lock Body Number	Lockset Code	Lock Function
SM 7122	SM A	Store Door
SM 7124	SM B	Dormitory
	SM E	Privacy
SM 7125	SM C	Passage
SM 7134	SM D	Hotel
SM 7142	SM F	Public Restroom
SM 7145	SM G	Classroom
SM 7148	SM H	Entrance
SM 7156	SM I	Office
SM 7159	SM J	Storeroom
SM 7159 (EU/EL)	SM J (EU/EL)	Electrified Storeroom
SM 7167	SM K	Apartment
SM 7181	SM M	Deadlock
	SM N	Deadlock
	SM P	Deadlock
	SM R	Deadlock
	SM S	Deadlock
NM 7122	NM A	Store Door
NM 7124	NM B	Dormitory
	NM E	Privacy
NM 7125	NM C	Passage
NM 7142	NM F	Public Restroom
NM 7145	NM G	Classroom
NM 7148	NM H	Entrance
NM 7156	NM I	Office
NM 7159	NM J	Storeroom
NM 7181	NM M	Deadlock
	NM N	Deadlock
	NM P	Deadlock
	NM R	Deadlock
	NM S	Deadlock
EM 0001	EM A	Store Door
	EM B	Dormitory
EM 0002	EM C	Passage
EM 0003	EM E	Privacy
EM 0004	EM N	Deadlock
	EM P	Deadlock
HL 7010	HL C	Passage
ML 7030	ML C	Passage
ML 7040	ML E	Privacy
KL 7050	KL C	Passage Latch
HD 7020	HD R	Privacy Bolt
	HD S	Privacy Bolt
MD 7060	MD R	Privacy Bolt
	MD S	Privacy Bolt
KD 7070	KD N	Keyed Deadbolt
	KD P	Keyed Deadbolt

Standard Mortise Lock Series SM

Mortise Case and Functions



Series SM

Standard Backset
Mortise Lock



Federal Specifications

ANSI A 156.13, Series 1000,
Mortise Locks and Latches,
Grade 1

UL and C-UL-US Listing

File No. R 16617

Backsets (x)

- 2 1/2" (64 mm)
- 2 3/4" (70 mm)
- 3 3/4" (95 mm)
- 5" (127 mm)
- 6" (152 mm)

Strike

Curved lip (handed) with
dustbox.



SM 7122

Store Door Lock Body

ANSI Code F14



Latch bolt by handle either side.
Deadbolt by key either side.

SM 7124

Dormitory Lock Body

ANSI Code F13



Deadbolt by thumb turn inside
and key or emergency release
outside.

SM 7125

Passage Lock Body

ANSI Code F01



Latch bolt by handle either side.

Standard Mortise Lock Series SM

Mortise Case Functions

SM 7134

Hotel Lock Body

ANSI Code F15



Latch bolt by handle inside and guest or master key outside. Outside handle always rigid. Deadbolt by thumbturn inside and service key only outside.

Use of inside handle retracts latch and deadbolt simultaneously. Auxiliary latch deadlocks latch bolt.

SM 7142

Public Restroom Lock Body

ANSI Code F09



Latch bolt by handle either side unless outside handle is locked by master key from inside (cylinders are provided KD). When outside handle is locked, latch bolt by key outside and handle inside.

Auxiliary latch deadlocks latch bolt.

SM 7145

Classroom Lock Body

ANSI Code F05



Latch bolt by key outside and handle either side unless outside handle is locked by key outside. Auxiliary latch deadlocks latch bolt.

SM 7148

Entrance Lock Body

ANSI Code F12



Latch bolt by key outside and handle either side unless outside handle is locked by toggle. Deadbolt by key outside and thumbturn inside. Inside handle retracts latch and deadbolt.

Outside handle is rigid when deadbolt is thrown by key or thumbturn.

SM 7156

Office Lock Body

ANSI Code F04



Latch bolt by key outside and handle either side unless outside handle is locked by toggle. Auxiliary latch deadlocks latch bolt.

SM 7159

Storeroom Lock Body

ANSI Code F07



Latch bolt by handle inside and key outside. Outside handle always rigid. Auxiliary latch deadlocks latch bolt.

Standard Mortise Lock Series SM

Mortise Case Functions

SM 7159 EU or EL

Electrified Storeroom Lock Body

(EU = fail secure) (EL = fail safe)



Key outside retracts latch bolt, when outside lever is locked. Outside lever retracts latch bolt except when locked. Outside lever can only be locked with the solenoid. Inside lever always retracts latch bolt.

Auxiliary latch deadlocks latch bolt.

See details page 12.

SM 7167

Apartment Lock Body

ANSI Code F20



Same as SM 7148 with the following addition:
Auxiliary latch deadlocks latch bolt and prevents manipulation of locked toggle. Outside handle is rigid when deadbolt is thrown by key or thumbturn.

SM 7181

Deadlock Lock Body

ANSI Code F18



Deadbolt by key, thumbturn, or emergency release either side.

Standard Mortise Lock Series SM Information and Specifications



SM Series

A high quality heavy duty commercial grade mortise lock series (Grade 1) capable of meeting the requirements of a vast array of lever and knob designs. Available standard as a 2 $\frac{3}{4}$ " backset, they may also be had in 2 $\frac{1}{2}$ ", 3 $\frac{3}{4}$ ", 5" and 6" extended backsets.

The SM Series incorporates a standard 1 $\frac{1}{4}$ " wide faceplate and are designed for doors 1 $\frac{3}{4}$ " thick and greater. They may also be ordered with a 1" wide faceplate designed for doors 1 $\frac{3}{8}$ " thick and greater on request. Handed strikes for hollow metal and wood frame construction conforms to ANSI Standard A 115.1, 4.875" x 1.25" (124 x 32 mm) lip to center. Flat lip, special length and custom strikes may also be ordered to accommodate various project conditions and requirements. Locks are available in a variety of keyed and non-keyed functions and include emergency egress functions where applicable.

The SM Series employs high-carbon steel compression springs for long life and durability of service. Hubs are fabricated of oil impregnated, copper infiltrated sintered steel, for additional strength and positive latch retraction. Cases are designed to accommodate FSB through bolted trim for positive alignment with the lock case.

The SM Series are regularly furnished with a $\frac{3}{4}$ " throw, two-piece mechanical heavy-duty anti-friction latch bolt to meet UL requirements for use on a pair of fire doors.

Deadbolts are fabricated with hardened steel inserts. Faceplates and strikes are fabricated standard in nonmagnetic 304 alloy stainless steel. Brass or bronze substrates and most decorative finishes may be had on a special order basis.

The SM Series are UL Listed (3 Hour) for use on fire doors and can be specified for applications in offices, schools, hospitals, hotels, and commercial buildings, as well as residences.

All FSB mortise locks are compatible with most US cylinders. When using other brands of cylinders, they must be supplied with an FSB compatible cam.

Federal Specification

Conforms to all performance and structural specifications of ANSI A 156.13, Series 1000, Grade 1 Mortise Locks and Latches.

UL Listing

3 Hour rated by Underwriters Laboratories, Inc. on all series of single-point locks or latches illustrated within this section.

UL File No. R16617

Steel Case

Size varies according to backset. Heavy gauge .093" (2.36 mm) thick, corrosion resistant zinc dichromate finish.

Armor Front and Scalp

.218" x 1.25" x 8"
(5.5 x 32 x 203 mm) or
.218" x 1" x 8"
(5.5 x 25.4 x 203 mm).
Adjustable for beveled conditions from flat to standard bevel .125" on 2" (3 on 51 mm).

Faceplate (Scalp only)

.062" x 1.25" x 8"
(1.57 x 32 x 203 mm) or
.062" x 1" x 8"
(1.57 x 25.4 x 203 mm).
Wrought stainless steel, bronze or brass substrate.

Anti-Friction Latch Bolt

.625" x 1" (12 x 25.4 mm) x
.75" (19 mm) throw.
Two-piece mechanical oil impregnated sintered stainless steel.

Deadbolt

.5625" x 1.25" (14 x 32 mm) x
1" (25.4 mm) throw.
Solid forged stainless steel throw with free-rotating hardened steel saw-proof inserts.

Hub (Split)

Providing emergency egress. .315" (8 mm) square oil impregnated, copper infiltrated sintered steel with one way rotation for levers (LS) and two-way rotation for knobs (KS).

Thumbturn Hub

.2" (5 mm) diamond, oil impregnated, copper infiltrated sintered steel, 90 degree rotation.

Backsets

2.50" (64 mm), 2.75" (70 mm), 3.75" (95 mm), 5" (127 mm) and 6" (152 mm).

Spacing

3.625" (92 mm) center hub to center cylinder, 2.4375" (62 mm) center lever hub to thumbturn hub.

Through-bolting

1.5" (38 mm) to 1.6875" (43 mm) center to center.

Strike

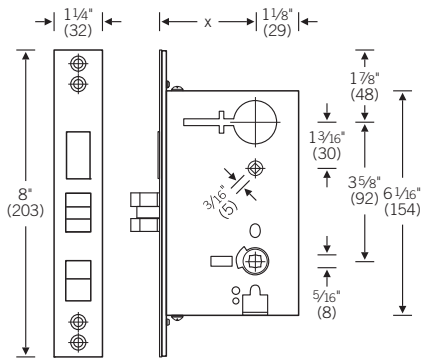
4.875" x 1.25" (124 x 32 mm) lip to center. Wrought stainless steel, bronze, and brass substrate finished to match. Supplied to ANSI Standard A 115.1. Regularly furnished with curved lip strike. Flat lip, special length and wrought dust boxes also available.

Template

Metal doors and frames to be prepared in accordance with ANSI A 115.11.

Face cutouts and center to center dimensions are subject to variation. Always review trim requirements prior to door preparation.

Electrified Mortise Lock Series SM Mortise Case and Function



Series SM EL or SM EU

Federal Specifications

ANSI A 156.13, Series 1000,
Grade 1, Mortise Locks and
Latches.

UL and CUL Listing

File No. R 16617

Backsets (x)

- 2 1/2" (64 mm)
- 2 3/4" (70 mm)

SM 7159 EU or EL

Electrified Storeroom Lock Body

(EU = fail secure) (EL = fail safe)



Solenoid activated mortise lock.

EL function – Power ON, locks
outside lever (by solenoid).
EU function – Power OFF, locks
outside lever (by solenoid).

Key outside retracts latch bolt,
when outside lever is locked.
Outside lever retracts latch bolt
except when locked.

Outside lever can only be
locked with the solenoid. Inside
lever always retracts latch bolt.
Auxiliary latch deadlocks latch
bolt.

Monitoring Options

- AE = Authorized Egress
- LM = Latch Bolt Monitoring
- SM = Security Monitoring
(only for 2 3/4" backset)

Electrified Mortise Lock Series SM Functions and Specifications

SM Series Electrified Locks

All Mortise Locksets may be electrified for electromechanical function requirements. Solenoid are UL tested for cycle life, low operating temperature, shock and fire hazard qualifications.

Electromechanical locks are designed for intermittent or continuous duty and are available in either 12 or 24 VAC/VDC, and may be ordered either EL (fail-safe) or EU (fail-secure).

The SM Series have been tested in accordance with the American National Standard for Mortise Locks and Latches and meet or exceed the ANSI A 156.13-1987 specifications, making them the best choice for any building where safety, security and design compatibility are prime considerations.

To specify FSB electrified mortise locks additional information must be provided regarding the lock function (No. 5 from specifying locksets, "Lockset Program" Section), per the example below.

Specific Features

EL = Fail Safe (Power Lock)

Outside trim is locked when power is applied (storeroom function) and unlocked when power is removed (passage function). Lockset will unlock in event of power failure.

EU = Fail Secure (Power Unlock)

Outside trim is unlocked when power is applied (passage function) and locked when power is removed (storeroom function). Lockset will lock in event of power failure.

- When key cylinders are provided in the locks, the latchbolt may be momentarily retracted with key even though electrically locked. Note: Locks that are electrically unlocked may not be locked via the key cylinder.
- Interface with Life-Safety Systems.
- Continuous duty solenoids
- UL Listed Modifications

1. 2. 3. 4. 5. Extra Information Required 6. 7. 8.

1147-ST-6204-SM-JEU (or EL), 12 (or 24 V), AC (or DC) - 2³/₄" - RHR - 1³/₄"

Electrified Mortise Lock Series SM Installation

Optional monitoring features

AE (Authorized Egress Monitor)

Monitors the use of the inside lever. This feature may be used to shunt an alarm, signal a control console, activate an alarm, or control an electromagnetic lock for egress.

LM (Latch Bolt Monitor)

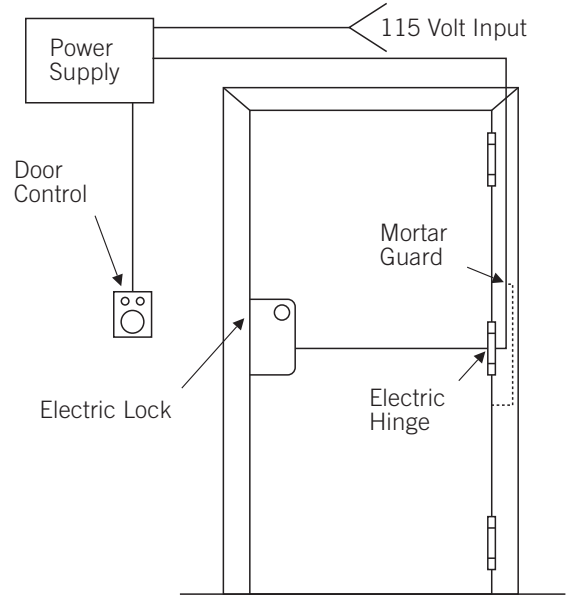
Monitors the full extension of the main latch. This feature may be used to signal a control console, activate an alarm, or control an electromagnetic lock for entrance and egress.

SM (Security Monitor)

Available on 2 3/4" backset only. Monitors the status of both the solenoid (locked or unlocked) and the auxiliary latch (dead-latch position). This feature may be used to determine the security status (locked or unlocked), activate an alarm, or send notification to a control console.

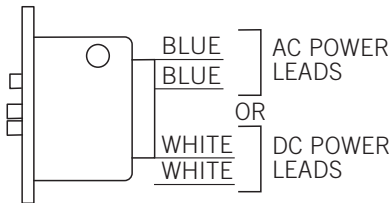
Note: When monitoring features are required in a lockset, add AE, LM or SM after the designation EU or EL (example: 1147 J EU/AE)

Typical installation

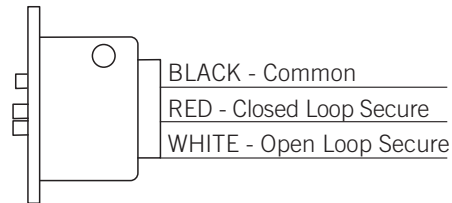


Wiring Schematics by option

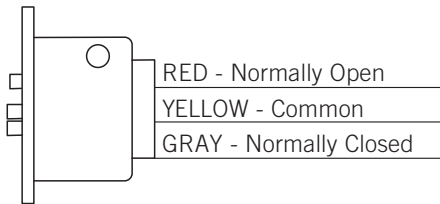
EL & EU – Fail Safe and Fail Secure



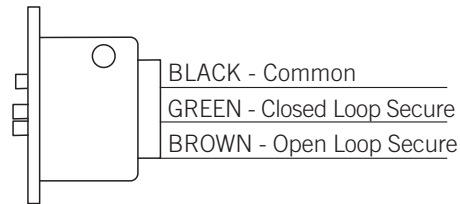
LM – Latchbolt Monitor



AE – Authorized Egress



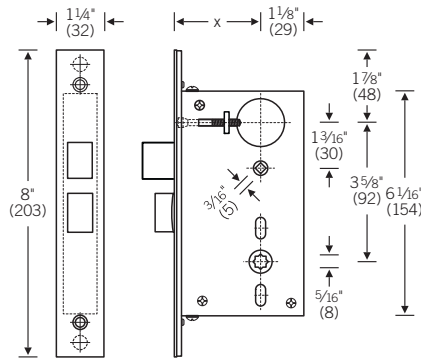
SM – Security Monitoring



Note: Red Ty-Wrap on leads designates 12 Volt

Narrow Mortise Lock Series NM

Mortise Case and Functions



Series NM

Narrow Backset
Mortise Lock

Federal Specifications
ANSI A 156.13, Series 1000,
Mortise Locks and Latches

UL and C-UL-US Listing
Applied for

Backsets (x)
1 1/2" (38 mm)*
1 3/4" (45 mm)*
2" (51 mm)
2 1/4" (57 mm)

Strike
Curved lip (handed) with
dustbox.

* Limited trim options available



NM 7122

Store Door Lock Body

ANSI Code F14



Latch bolt by handle either side.
Deadbolt by key either side.

NM 7124

Dormitory Lock Body

ANSI Code F13



Deadbolt by thumb turn inside
and key or emergency release
outside.

NM 7125

Passage Lock Body

ANSI Code F01



Latch bolt by handle either side.

Narrow Mortise Lock Series NM

Mortise Case Functions

<p>NM 7142</p> <p>Public Restroom Lock Body</p> <p>ANSI Code F09</p>		<p>Latch bolt by handle either side unless outside handle is locked by master key from inside (cylinders are provided KD). When outside handle is locked, latch bolt by key outside and handle inside.</p>	<p>Auxiliary latch deadlocks latch bolt.</p>
<p>NM 7145</p> <p>Classroom Lock Body</p> <p>ANSI Code F05</p>		<p>Latch bolt by key outside and handle either side unless outside handle is locked by key outside. Auxiliary latch deadlocks latch bolt.</p>	
<p>NM 7148</p> <p>Entrance Lock Body</p> <p>ANSI Code F12</p>		<p>Latch bolt by key outside and handle either side unless outside handle is locked by toggle. Deadbolt by key outside and thumbturn inside. Inside handle retracts latch and deadbolt.</p>	<p>Outside handle is rigid when deadbolt is thrown by key or thumbturn.</p>
<p>NM 7156</p> <p>Office Lock Body</p> <p>ANSI Code F04</p>		<p>Latch bolt by key outside and handle either side unless outside handle is locked by toggle. Auxiliary latch deadlocks latch bolt.</p>	
<p>NM 7159</p> <p>Storeroom Lock Body</p> <p>ANSI Code F07</p>		<p>Latch bolt by handle inside and key outside. Outside handle always rigid. Auxiliary latch deadlocks latch bolt.</p>	
<p>NM 7181</p> <p>Deadlock Lock Body</p> <p>ANSI Code F18</p>		<p>Deadbolt by key, thumbturn, or emergency release either side.</p>	

Narrow Mortise Lock Series NM Information and Specifications

NM Series

A high quality heavy duty commercial grade narrow backset mortise lock series capable of meeting the requirements of a vast array of lever handle designs and are available in 1½", 1¾", 2" and 2¼" backsets.

The NM Series incorporates a standard 1¼" wide faceplate and are designed for doors 1¾" thick and greater. They may also be ordered with a 1" wide faceplate designed for doors 1⅜" thick and greater on request. Function specific, handed strikes for hollow metal and wood frame construction conforms to ANSI Standard A 115.1, 4⅞" × 1¼" (124 × 32 mm) lip to center. Flat lip, special length and custom strikes may also be ordered to accommodate various project conditions and requirements.

The NM Series employs high-carbon steel compression springs for long life and durability of service. Hubs are fabricated of solid brass. Cases are designed to accommodate a limited array of FSB through bolted trim for positive alignment with the lock case.

The NM Series are regularly furnished with a ½" throw one-piece mechanical heavy-duty latch bolt.

Faceplates and strikes are fabricated standard in nonmagnetic 304 alloy stainless steel. Brass or bronze substrates and most decorative finishes may be had on a special order basis.

The NM Series are not yet UL listed and should only be specified for applications not requiring a fire-rated or UL listed lockset. Please contact FSB for the current status of our UL approval.

All mortise locks are compatible with most US cylinders. When using other brands of cylinders, they must be supplied with an FSB compatible cam.

Steel Case

Size varies according to backset. Heavy gauge .093" (2.36 mm) thick, corrosion resistant zinc dichromate finish.

Armor Front and Scalp

.218" × 1.25" × 8"
(5.5 × 32 × 203 mm) or
.218" × 1" × 8"
(5.5 × 25.4 × 203 mm).
Adjustable for beveled conditions from flat to standard bevel .125" on 2" (3 on 51 mm).

Faceplate (Scalp only)

.062" × 1.25" × 8"
(1.57 × 32 × 203 mm) or
.062" × 1" × 8"
(1.57 × 25.4 × 203 mm).
Wrought stainless steel, bronze or brass substrate.

Latch Bolt

.5" × 1" (12.7 × 25.4 mm) × .5" (12.7 mm) throw. One-piece solid brass.

Deadbolt

.625" × .75" (16 × 19 mm) × 1" (25.4 mm) throw with free-rotating hardened steel saw-proof inserts. Solid brass.

Hub (Solid)

.315 (8 mm) square solid brass with one way rotation for levers (LS) and two-way rotation for knobs (KS).

Thumbturn Hub

.2" (5 mm) diamond, solid brass, 90 degree rotation.

Backsets

1.50" (38 mm), 1.75" (45 mm), 2.00" (51 mm), 2.25" (57 mm).

Spacing

3.625" (92 mm) center hub to center cylinder, 2.4375" (62 mm) center lever hub to thumbturn hub.

Through-bolting

1.5" (38 mm) to 1.6875" (43 mm) center to center.

Strike

4.875" × 1.25" (124 × 32 mm) lip to center. Wrought stainless steel, bronze, and brass substrate finished to match. Supplied to ANSI Standard A 115.1. Regularly furnished with curved lip strike. Flat lip, special length and wrought dust boxes also available.

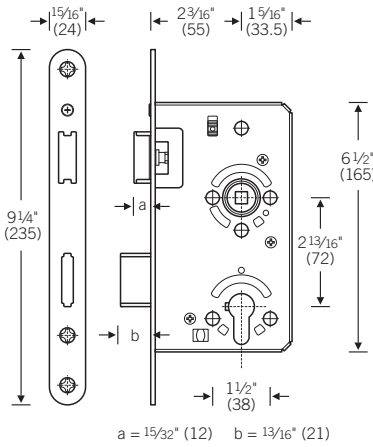
Template

Metal doors and frames to be prepared in accordance with ANSI A 115.11.

Face cutouts and center to center dimensions are subject to variation. Always review trim requirements prior to door preparation.

European Mortise Lock Series EM

Mortise Case and Functions



Series EM

European Mortise Lock

Specifications

DIN Grade 2 Mortise Lock
field reversible

PZ = $2\frac{13}{16}"$ (72 mm) CTC
WC = $3\frac{1}{16}"$ (78 mm) CTC

Backset

$2\frac{3}{16}"$ (55 mm) only

Strike

Curved lip (function specific)
without dustbox.

Series EM is not available with
emergency egress or UL rating.

EM 0001

Entry Door Lock Body



Latch bolt by cylinder and handle
either side unless deadbolt is in
locked position.
Deadbolt by key or thumbturn
either side.

Activated with key × key or
key × thumbturn European
profile cylinder.
Lever to cylinder center-to-
center: $2\frac{13}{16}"$ (72 mm).

EM 0002

Passage Lock Body



Latch bolt by handle either side.

EM 0003

Privacy Lock Body



Latch bolt by handle either side
unless deadbolt is in locked
position. Deadbolt by emergency
release outside and thumbturn
inside connected by 8 mm
spindle on the square.

Lever to thumbturn center-to-
center: $3\frac{1}{16}"$ (78 mm).

European Mortise Lock Series EM

Information and Specifications

EM 0004

Deadbolt Lock Body



Deadbolt by key or thumbturn either side.

55 mm backset
72 mm CTC

EM Series

Mortise lock with reversible latch compatible with DIN 18251 class 2, PZ 72 mm, backset 2 $\frac{3}{16}$ " (55 mm, only), 8 mm self-tightening follower. Stainless steel forend for flush edged doors, 9 $\frac{1}{4}$ " x 1 $\frac{5}{16}$ " (235 x 24 mm), square edges, galvanized lock-case with self securing screws, double throw, latch and bolt zinc galvanized. A high quality commercial grade mortise lock series, DIN class 2, capable of meeting the requirements of all FSB lever handle designs. Available standard as a 2 $\frac{3}{16}$ " (55 mm) backset only.

The EM Series incorporates a standard 1 $\frac{5}{16}$ " wide faceplate and are designed for doors 1 $\frac{3}{8}$ " thick and greater. The front plate is permanently fixed to the lock case. The front plate is finished in satin stainless steel and cannot be provided in other finishes. A function specific (non-handed) curved lip strike for hollow metal and wood frame construction conforms to DIN Standard 18251. Locks are field reversible and available in a variety of keyed and non-keyed functions.

The EM Series lock case is manufactured from galvanized steel with self-securing screws. Cases are designed to accommodate FSB through bolted trim for positive alignment with the lock case.

The EM Series is regularly furnished with a double throw zinc galvanized bolt. The bolt projects 1 $\frac{3}{16}$ " (21 mm) when fully extended.

All FSB mortise locks are compatible with all DIN profile cylinders. FSB also offers rekeyable, "C-type" Keyway DIN cylinders in both key by key and key by turn configurations, for door thickness between 1 $\frac{3}{8}$ " to 2 $\frac{1}{4}$ ".

Emergency egress is not available with this lock series.

Faceplate (Scalp)

9 $\frac{1}{4}$ " x 1 $\frac{5}{16}$ " (235 x 24 mm). Satin stainless steel fixed to front of lock case.

Latch

.5" (12.7 mm) throw. Cast iron zinc galvanized.

Deadbolt

.315" x 1.38" (8 x 35 mm) x .827" (21 mm) throw. Material: Cast iron zinc galvanized.

Hub

.315" (8 mm) square PA plastic follower with steel blade, one way rotation for levers.

Privacy set Hub

.315" (8 mm) square, single throw action, 90 degree rotation.

Backset

2.19" (55 mm).

Spacing

2.83" (72 mm) center hub to center cylinder, 3.07" (78 mm) center lever hub to thumbturn hub.

Through-bolting

1.5" (38 mm) center to center.

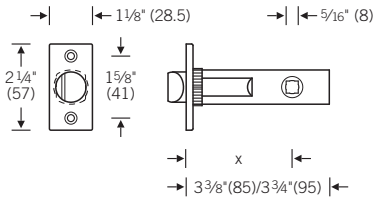
Strike

Curved lip strike for hollow metal and wood frame construction. See drawings for dimensions.

Template

Metal doors and frames to be prepared in accordance with the according FSB template.

Heavy Duty Lever Latch Series HL Latch and Function



HL 7010

Heavy Duty Lever Latch
Passage only



Specifications

Field reversible with adjustable
bevel (1/8" over 2")

UL and C-UL Listing

File No. R 16617

Backsets (x)

2 3/8" (60 mm)
2 3/4" (70 mm)

Strike

Universal curved lip T-Strike
with dustbox.

Faceplate width 1 1/8" (28.5 mm)
for minimum 1 3/4" (45 mm) door
thickness.

HL 7010

Passage



Latch bolt by handle either side.

For use on non-drilled doors
or pre-drilled doors with
non-sprung roses.

Heavy Duty Lever Latch Series HL

Information and Specifications



HL 7010

A high quality heavy duty grade tubular latch and mortise bolt series capable of meeting the requirements of a vast array of FSB lever handle designs and matching thumbturn trim for use on typical 1" Ø edge bore pre-drilled commercial and residential doors (1¾" door thickness). Available standard in either 2⅜" (60 mm) or 2¾" (70 mm) backsets.

The HL 7010 incorporates a standard 2¼" x 1⅛" (57 x 28.5 mm) wide faceplate and is designed for commercial and residential doors 1¾" thick and greater. A universal curved lip strike is supplied for hollow metal and wood frame construction 2¾" x 1¼" (70 x 32 mm) lip to center. Flat lip, full lip, special length and custom strikes may also be ordered to accommodate various project conditions and requirements. All HL series latches, mortise bolts and strikes are field reversible.

The 7010 passage latches are regularly furnished with a ½" throw one-piece mechanical heavy-duty solid brass satin nickel finished latch bolt. They employ high-carbon steel compression springs for long life and durability of service. Uni-directional hubs designed for levers only, are fabricated of solid brass for additional strength and feature a 28 degree rotation of the hub for positive latch retraction. Cases accommodate FSB through bolted trim for positive alignment with the latch case. One of the greatest advantages of the 7010 heavy duty latch is the ability to combine it with any of our FSB roses.

For use as a privacy function, it is necessary to utilize an independent mortise bolt. The 7020 mortise dead bolt is fabricated in solid brass satin nickel finished.

Faceplates and strikes are fabricated standard in nonmagnetic 304 alloy stainless steel.

The HL 7010 is UL Listed (3 Hour) for use on fire doors, surpasses over 400,000 operating cycles and can be specified for applications in offices, schools, hospitals, hotels, and commercial buildings, as well as residences.

The HL 7010 is supplied as standard with a black plastic dustbox.

Passage Latch 7010

UL Listing

3 Hour rated by Underwriters Laboratories, Inc. on all latches.

UL File No. R16617

Steel Case

Size varies according to backset. Heavy gauge .030" (.76 mm) thick, stainless steel.

Latch Front and Faceplate

.150" x 1.125" x 2.25" (3.8 x 28.5 x 57 mm). Wrought stainless steel substrate. Adjustable for beveled conditions from flat to standard bevel .125" on 2" (3 on 51 mm).

Latch Bolt

.625" x .75" (16 x 19 mm) x .50" (12.7 mm) throw. One-piece solid brass.

Hub

.315 (8 mm) square solid brass with one way rotation for levers (LS).

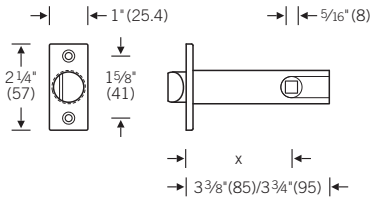
Backsets

2.375" (60 mm), 2.75" (70 mm).

Strike

2.75" x 1.25" (70 x 32 mm) lip to center. Wrought stainless steel substrate finished to match. Regularly furnished with universal curved lip strike. Flat lip, full lip, special length and wrought dust boxes may be had on a special order basis.

Medium Duty Lever Latch Series ML Latch and Function



ML 7030

Medium Duty Lever Latch
Passage

Specifications
Field reversible

Backsets (x)
2 3/8" (60 mm)
2 3/4" (70 mm)

Strike
Universal curved lip T-Strike
with dustbox.

Faceplate width 1" (25.4 mm)
for minimum 1 3/8" (35 mm) door
thickness.

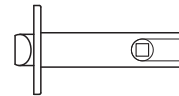
ML 7030

Passage



Latch bolt by handle either side.

Supplied with 8 mm square hub
as shown.



Medium Duty Lever Latch Series ML Information and Specifications

ML 7030

A high quality residential grade tubular latch series capable of meeting the requirements of a vast array of FSB lever handle designs for use on more typical $1\frac{5}{16}$ " \varnothing edge bore and $2\frac{1}{8}$ " face bore pre-drilled residential doors ($1\frac{3}{8}$ " door thickness). Available standard in either $2\frac{3}{8}$ " or $2\frac{3}{4}$ " backsets.

The ML 7030 incorporates a standard $2\frac{1}{4}$ " \times 1" wide faceplate and is designed for residential doors $1\frac{3}{8}$ " thick and greater. A universal curved lip strike is supplied for hollow metal and wood frame construction $2\frac{3}{4}$ " \times $1\frac{1}{4}$ " (70×32 mm) lip to center. Flat lip, full lip, special length and custom strikes may also be ordered to accommodate various project conditions and requirements. All ML residential series latches and strikes are field reversible and include emergency egress functions where applicable.

The 7030 latch is regularly furnished with a $\frac{1}{2}$ " throw one-piece mechanical heavy-duty solid brass satin nickel finished latch bolt. They employ high-carbon steel compression springs for long life and durability of service. Uni-directional hubs designed for levers only, are fabricated of solid brass for additional strength and feature a 28 degree rotation of the hub for positive latch retraction. Cases accommodate FSB through-bolted trim for positive alignment with the latch case.

Faceplates and strikes are fabricated standard in nonmagnetic 304 alloy stainless steel.

The ML 7030 is supplied as standard with a black plastic dustbox.

Passage Latch 7030

Steel Case

Size varies according to backset. Heavy gauge .030" (.76 mm) thick, corrosion resistant zinc dichromate finish.

Latch Front and Faceplate

$.182" \times 1" \times 2.25"$
($6.62 \times 25.4 \times 57$ mm).
Wrought stainless steel or brass, finished to match. Adjustable for beveled conditions from flat to standard bevel $.125"$ on $2"$ (3 on 51 mm).

Latch Bolt

$.625" \times .75"$ (16×19 mm) \times $.50"$ (12.7 mm) throw.
One-piece solid brass.

Hub

$.315$ (8 mm) square, corrosion resistant zinc dichromate finish on steel, with one way rotation for levers (LS).

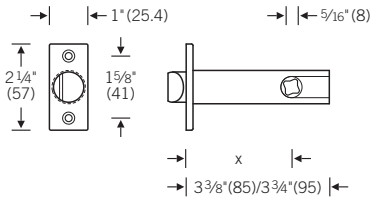
Backsets

$2.375"$ (60 mm), $2.75"$ (70 mm).

Strike

$2.75" \times 1.25"$ (70×32 mm) lip to center. Wrought stainless steel or brass, finished to match. Regularly furnished with universal curved lip strike. Flat lip, full lip, special length and wrought dust boxes may be had on a special order basis.

Medium Duty Lever Latch Series ML Latch and Functions



ML 7040

Medium Duty Lever Latch
Privacy

Specifications
Field reversible

Backsets (x)
2 3/8" (60 mm)
2 3/4" (70 mm)

Strike
Universal curved lip T-Strike
with dustbox.

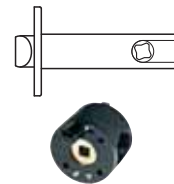
Faceplate width 1" (25.4 mm)
for minimum 1 3/8" (35 mm) door
thickness.

ML 7040

Privacy Latch
(when combined with ML 7041)



Latch bolt by handle either side.
Outside handle locked by push
button inside. Inside handle
retracts latch bolt and unlocks
outside handle.
Supplied with 8 mm clover hub
as shown.



ML 7041

Privacy Mechanism



Provide push button locking,
emergency egress and emer-
gency release, when combined
with ML 7040 latch.

For 1 3/8" – 2" thick doors with
1799 rose and 1 3/4" – 2 1/4" thick
doors with 1798 rose.

Medium Duty Lever Latch Series ML Information and Specifications

ML 7040

A high quality residential grade tubular latch series capable of meeting the requirements of a vast array of FSB lever handle designs for use on more typical $1\frac{5}{16}$ " \varnothing edge bore and $2\frac{1}{8}$ " face bore pre-drilled residential doors ($1\frac{3}{8}$ " door thickness). Available standard in either $2\frac{3}{8}$ " or $2\frac{3}{4}$ " backsets.

The ML 7040 incorporates a standard $2\frac{1}{4}$ " \times 1" wide faceplate and is designed for residential doors $1\frac{3}{8}$ " thick and greater. A universal curved lip strike is supplied for hollow metal and wood frame construction $2\frac{3}{4}$ " \times $1\frac{1}{4}$ " (70 \times 32 mm) lip to center. Flat lip, full lip, special length and custom strikes may also be ordered to accommodate various project conditions and requirements. All ML residential series latches and strikes are field reversible and include emergency egress functions where applicable.

The 7040 latch is regularly furnished with a $\frac{1}{2}$ " throw one-piece mechanical heavy-duty solid brass satin nickel finished latch bolt. They employ high-carbon steel compression springs for long life and durability of service. Uni-directional hubs designed for levers only, are fabricated of solid brass for additional strength and feature a 28 degree rotation of the hub for positive latch retraction. Cases accommodate FSB through bolted trim for positive alignment with the latch case. One of the most convincing advantages of the ML 7040 privacy latch when used in conjunction with the FSB privacy mechanism is it's ability to provide emergency egress from inside a room combined with emergency release from outside.

Faceplates and strikes are fabricated standard in nonmagnetic 304 alloy stainless steel.

Residential grade privacy latch 7040 may only be used in combination with FSB 7041 privacy mechanism and must be ordered as a complete set.

The ML 7040 is supplied as standard with a black plastic dustbox.

Privacy Latch 7040

Steel Case

Size varies according to backset. Heavy gauge .030" (.76 mm) thick, corrosion resistant zinc dichromate finish.

Latch Front and Faceplate

$.182$ " \times 1 " \times 2.25 "
(4.62 \times 25.4 \times 57 mm).
Wrought stainless steel or brass, finished to match. Adjustable for beveled conditions from flat to standard bevel $.125$ " on 2 " (3 on 51 mm).

Latch Bolt

$.625$ " \times $.75$ " (16 \times 19 mm) \times $.50$ " (12.7 mm) throw.
One-piece solid brass.

Hub

$.315$ (8 mm) clover, corrosion resistant zinc dichromate finish on steel, with one way rotation for levers (LS).

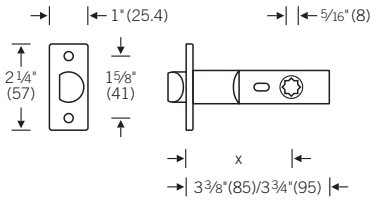
Backsets

2.375" (60 mm), 2.75" (70 mm).

Strike

2.75" \times 1.25" (70 \times 32 mm) lip to center. Wrought stainless steel or brass, finished to match. Regularly furnished with universal curved lip strike. Flat lip, full lip, special length and wrought dust boxes may be had on a special order basis.

Knob and Lever Latch Series KL Latch and Function



KL 7050

Knob and Lever Latch
Passage only

Specifications
Field reversible

Backsets (x)
2 3/8" (60 mm)
2 3/4" (70 mm)

Strike
Universal curved lip T-Strike
with dustbox.

Faceplate width 1" (25.4 mm)

KL 7050

Passage Knob Latch



Latch bolt by knob either side.

For use with knobs on non-drilled and pre-drilled doors.

For use with levers on non-drilled doors with 1731 2111 or 1707 2111 roses.

Knob and Lever Latch Series KL

Information and Specifications

KL 7050

An economical residential grade tubular latch and mortise bolt capable of meeting the requirements of a vast array of FSB doorknob designs for use on typical $1\frac{5}{16}$ " \varnothing edge bore pre-drilled residential doors (1 $\frac{3}{8}$ " door thickness). Available standard in either 2 $\frac{3}{8}$ " or 2 $\frac{3}{4}$ " backsets.

The KL 7050 incorporates a standard 2 $\frac{1}{4}$ " \times 1" wide faceplate and is designed for residential doors 1 $\frac{3}{8}$ " thick and greater. A universal curved lip strike is supplied for hollow metal and wood frame construction 2 $\frac{3}{4}$ " \times 1 $\frac{1}{4}$ " (70 \times 32 mm) lip to center. Flat lip, full lip, special length and custom strikes may also be ordered to accommodate various project conditions and requirements. The KL series latches and strikes are field reversible.

The 7050 passage latch is regularly furnished with a $\frac{1}{2}$ " throw one-piece mechanical solid brass satin nickel finished latch bolt. Bi-directional hubs designed for knobs only, are fabricated of solid brass for additional strength and feature a 28 degree rotation of the hub for positive latch retraction. Cases accommodate FSB through bolted trim for positive alignment with the latch case.

Faceplates and strikes are fabricated standard in nonmagnetic 304 alloy stainless steel and cannot be finished to match other FSB finishes.

The 7050 is supplied as standard with a black plastic dust box.

Passage Latch 7050

Steel Case

Size varies according to backset. Heavy gauge .030" (.76 mm) thick, corrosion resistant zinc finish.

Faceplate

.150" \times 1" \times 2.25" (3.8 \times 25.4 \times 57 mm). Wrought stainless steel substrate only. Adjustable for beveled conditions from flat to standard bevel .125" on 2" (3 on 51 mm). Note: Latch front and faceplate are one piece (permanently affixed). As a result the faceplate is only available in satin stainless steel finish.

Latch Bolt

.675" \times .8" (17 \times 20 mm) \times .5" (12.7 mm) throw. One-piece solid brass.

Hub

.315 (8 mm) square solid brass with two way rotation for knobs (KS).

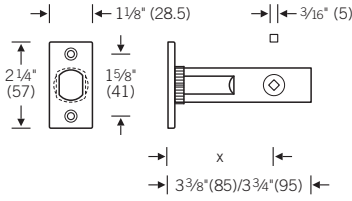
Backsets

2.375" (60 mm), 2.75" (70 mm).

Strike

2.75" \times 1.25" (70 \times 32 mm) lip to center. Wrought stainless steel substrate finished to match. Regularly furnished with universal curved lip strike. Flat lip, full lip, special length and wrought dust boxes may be had on a special order basis.

Heavy Duty Privacy Deadbolt Series HD Deadbolt and Function



HD 7020

Heavy Duty Privacy Deadbolt

Specifications

Full bolt extension achieved with 90° thumbturn rotation

Backsets (x)

2 3/8" (60 mm)

2 3/4" (70 mm)

Strike

Universal deadbolt strike with dustbox.

Faceplate width 1 1/8" (28.5 mm)

HD 7020

Privacy Deadbolt



Deadbolt by thumbturn one side, or deadbolt by thumbturn one side and emergency release the other.

Heavy Duty Privacy Deadbolt Information and Specifications

HD 7020

A high quality heavy duty tubular latch and mortise bolt capable of meeting the requirements of a vast array of FSB lever handle designs and matching thumb-turn trim for use on typical $1\frac{5}{16}$ " \varnothing edge bore pre-drilled commercial and residential doors ($1\frac{3}{4}$ " door thickness). Available standard in either $2\frac{3}{8}$ " (60 mm) or $2\frac{3}{4}$ " (70 mm) backsets.

The HD 7020 incorporates a standard $2\frac{1}{4}$ " \times $1\frac{1}{8}$ " wide faceplate and is designed for commercial and residential doors $1\frac{3}{4}$ " thick and greater. A universal deadbolt strike is supplied for hollow metal and wood frame construction $2\frac{3}{4}$ " \times $1\frac{1}{8}$ " (70 \times 28.5 mm). Special length and custom strikes may also be ordered to accommodate various project conditions and requirements. The HD series, mortise bolts and strikes are field reversible.

The 7020 mortise dead bolt is fabricated in solid brass satin nickel finished.

Faceplates and strikes are fabricated standard in nonmagnetic 304 alloy stainless steel.

Deadbolt requires 90 degree rotation for full bolt extension.

The HD 7020 is supplied as standard with a black plastic dustbox.

Mortise Bolt 7020

Steel Case

Size varies according to backset. Heavy gauge .030" (.76 mm) thick, stainless steel.

Latch Front and Faceplate

$.155$ " \times 1.125 " \times 2.25 " (3.9 \times 28.5 \times 57 mm). Wrought stainless steel substrate. Adjustable for beveled conditions from flat to standard bevel $.125$ " on 2" (3 on 51 mm).

Dead Bolt

$.625$ " \times $.75$ " (16 \times 19 mm) \times $.715$ " (18 mm) throw. One-piece solid brass.

Hub

$.2$ " (5 mm) diamond.

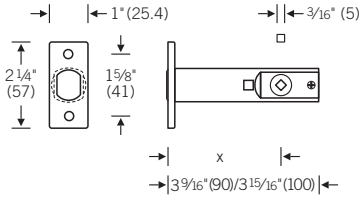
Backsets

2.375 " (60 mm), 2.75 " (70 mm).

Strike

2.75 " \times 1.125 " (70 \times 28.5 mm). Wrought stainless steel substrate finished to match.

Medium Duty Privacy Deadbolt Series MD Deadbolt and Function



MD 7060

Medium Duty Privacy Deadbolt

Specifications

1" (25.4 mm) Deadbolt throw

Backsets (x)

2 3/8" (60 mm)

2 3/4" (70 mm)

Strike

Universal deadbolt strike with dustbox.

Faceplate width 1" (25.4 mm)

MD 7060

Mortise Bolt



Deadbolt by thumbturn one side, or deadbolt by thumbturn one side and emergency release the other.

Medium Duty Privacy Deadbolt Information and Specifications

MD 7060

An economical residential grade tubular latch and mortise bolt capable of meeting the requirements of a vast array of FSB doorknob designs for use on typical 1" Ø edge bore pre-drilled residential doors (1³/₈" door thickness). Available standard in either 2³/₈" or 2³/₄" backsets.

The MD 7060 incorporates a standard 2¹/₄" × 1" wide faceplate and is designed for residential doors 1³/₈" thick and greater. A universal deadbolt strike is supplied for hollow metal and wood frame construction 2³/₄" × 1¹/₈" (70 × 28.5 mm). Special length and custom strikes may also be ordered to accommodate various project conditions and requirements. The MD mortise bolts and strikes are field reversible.

Faceplates and strikes are fabricated standard in nonmagnetic 304 alloy stainless steel.

The 7060 privacy dead bolt is fabricated in solid brass satin nickel finished. Dead bolt requires 135 degree rotation for full bolt extension.

The MD 7060 is supplied as standard with a black plastic dustbox.

Privacy Dead Bolt 7060

Steel Case

Size varies according to backset. Heavy gauge .030" (.76 mm) thick, corrosion resistant zinc finish.

Latch Front and Faceplate

.140" × 1" × 2.25"
(3.6 × 25.4 × 57 mm).
Wrought stainless steel or brass, finished to match.

Dead Bolt

.625" × .75" (16 × 19 mm) ×
.625" (16 mm) throw.
One-piece solid brass.

Hub

.2 (5 mm) diamond.
135° rotation for full bolt extension.

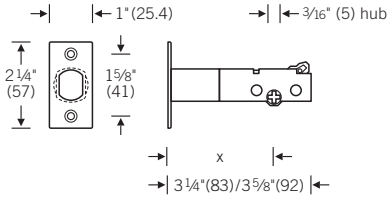
Backsets

2.375" (60 mm), 2.75" (70 mm).

Strike

2.75" × 1.125" (70 × 28.5 mm).
Wrought stainless steel or brass, finished to match.

Keyed Deadbolt Series KD Deadbolt and Function



KD 7070

Keyed Deadbolt

Specifications

Faceplate width 1" (25.4 mm)

Backsets (x)

2 3/8" (60 mm)

2 3/4" (70 mm)

Strike

Universal deadbolt strike with dustbox.



KD 7070

Keyed Deadbolt



Deadbolt by key or thumbturn either side.

Keyed Deadbolt Series KD

Information and Specifications

KD 7070

A high quality residential grade tubular deadbolt capable of meeting the requirements of an array of FSB trim designs for use on more typical 1" Ø edge bore and 2 1/8" face bore pre-drilled residential doors (1 3/8" door thickness). They may also be specified for 1 5/8" face bore pre-drilled residential doors to take advantage of our reduced diameter trim designs. Available standard in either 2 3/8" or 2 3/4" backsets.

The KD 7070 keyed deadbolt incorporates a standard 2 1/4" x 1" wide faceplate and is designed for residential doors 1 3/8" thick or greater. A universal strike is supplied for hollow metal and wood frame construction 2 3/4" x 1 1/8" (70 x 28.5 mm) and is also provided with a black plastic dust box.

The KD 7070 deadbolt is non-handed and regularly furnished with a 1" throw one-piece mechanical heavy-duty solid brass satin nickel finished deadbolt and feature a 90 degree rotation of the hub for full deadbolt extension.

FSB tubular deadbolt trim has the advantage of being installed into typical door preparations for standard pre-bored (2 1/8" and 1 5/8") residential doors. The cylinder ring for the 2 1/8" bore is 65 mm Ø, to match our 1798 and 1799 tubular latch roses. The cylinder ring for the 1 5/8" bore is 55 mm Ø, to match our 1731 and 1707 tubular latch roses. This design feature allows the designer to chose the appropriate cylinder ring based on the door application or the design intent.

Faceplates and strikes are fabricated standard in nonmagnetic 304 alloy stainless steel.

The KD 7070 is supplied as standard with a black plastic dustbox.

Keyed Tubular Entry Deadbolt

Latch Front and Faceplate

.140" x 1" x 2.25"
(3.6 x 25.4 x 57 mm).
Wrought stainless steel or brass, finished to match.

Dead Bolt

.625" x .75" (16 x 19 mm) x 1" (25.4 mm) throw. One-piece solid brass.

Hub

.3125" (8 mm) cross.
90° rotation for full bolt extension.

Backsets

2.375" (60 mm), 2.75" (70 mm).

Strike

2.75" x 1.125" (70 x 28.5 mm).
Wrought stainless steel or brass, finished to match.

North American Cylinders



→| 35 |← →|25,4|←



8806 7165
Length 1" (25.4 mm)

→| 35 |← →|28,5|←



8806 7185
Length 1 1/8" (28.5 mm)

→| 35 |← →| 32 |←



8806 7205
Length 1 1/4" (32 mm)

FSB mortise cylinders are supplied (keyed differently) and are available in the 4 finishes below.

FSB mortise cylinders may be master-keyed up to 4 levels upon special request.

FSB mortise cylinders are machined from solid brass bar stock. Thread size is 1.15" x 32 UNS.

Keyway

"C-type", 5 pin (6th hole provided in 7185 and 7205).

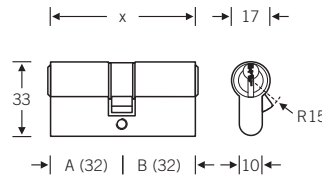
Cap Finishes

- US 28 (matches FSB 0105) Aluminum Natural Color Anodized
- US 32D Satin Stainless Steel
- US 10B Dark Bronze
- US 3 Bright Brass

Cam Types

- SC1 (straight cam); used for all standard backset mortise locks without a deadbolt and all narrow backset mortise locks
- SC19 (clover leaf cam); used for all mortise locks with a deadbolt

European Profile Cylinders (PZ)

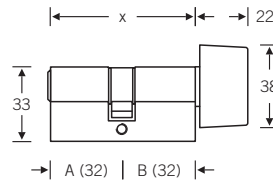


8812 00xx

xx = 64 (64 mm) for 1 3/8" - 1 3/4" door thickness

xx = 70 (70 mm) for 2 - 2 1/4" door thickness

Key x Key

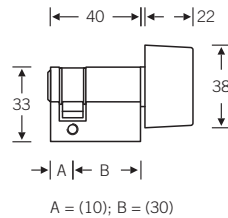


8812 01xx

xx = 64 (64 mm) for 1 3/8" - 1 3/4" door thickness

xx = 70 (70 mm) for 2 - 2 1/4" door thickness

Key x Thumbturn
Thumbturn: Stainless Steel
Aluminum

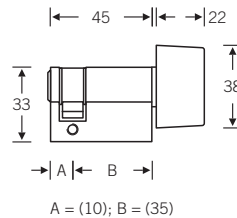


8812 0230

Cylinder length 40 mm

1/2 Cylinder Thumbturn only

Thumbturn: Stainless Steel
Aluminum



8812 0235

Cylinder length 45 mm

1/2 Cylinder Thumbturn only

Thumbturn: Stainless Steel
Aluminum

Keyway

"C-type" 5 pin on each side and are supplied keyed alike (up to 20) as standard. May be master keyed on special request.

Keys

Nickel plated brass, supplied with two keys per cylinder.

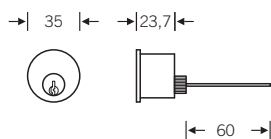
Cylinder Finish

Nickel plated brass only.

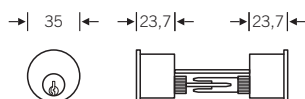
Thumbturn and Finishes

- 1744 turnpiece only
- US 28 (matches FSB 0105)
Aluminum Natural Color
Anodized
- US 32 D (matches FSB 6204)
Satin Stainless Steel

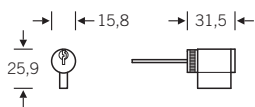
Deadbolt Cylinders Multi-Point Cylinder



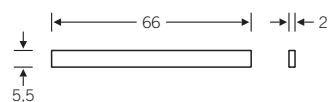
8807 8834
Single Deadbolt Cylinder
Aluminum Cap
Stainless Steel Cap



8807 8835
Double Deadbolt Cylinder
Aluminum Cap
Stainless Steel Cap

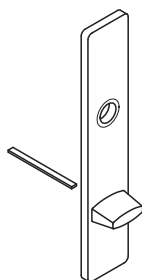


8810 0001
Rim Cylinder for US multi-point backplate.
Satin Nickel Plated Brass



0423 0601
Tailpiece

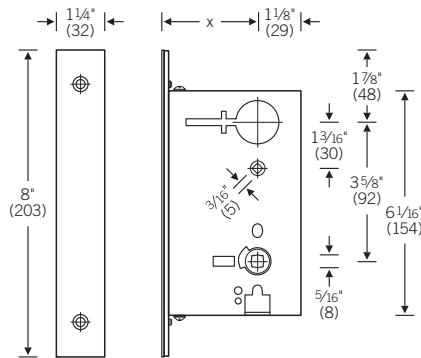
To be used in conjunction with thumbturn inside and lever only outside to create a patio set.



For several American multi-point locks, the locking mechanism is activated with a flat tailpiece, which passes through the lock, that is attached to the cylinder itself. In the case of a traditional patio set (lever and thumbturn inside and a lever only on the outside), there is no cylinder, hence no tailpiece.

For these applications it is necessary to combine our thumbturn escutcheons with a tailpiece of their own.

Active Dummy Mortise Case



SM 7100

Standard backset series

NM 7100

Narrow backset series

Federal Specifications

ANSI A 156.13, Series 1000, Grade 1, Mortise.

All Backsets

SM Series	NM Series
2 1/2" (64 mm)	1 1/2" (38 mm)
2 3/4" (70 mm)	1 3/4" (44 mm)
3 3/4" (95 mm)	2" (51 mm)
5" (127 mm)	2 1/4" (57 mm)
6" (152 mm)	



SM 7100 (AS)

All Backsets

SM Series	NM Series
2 1/2" (64 mm)	1 1/2" (38 mm)
2 3/4" (70 mm)	1 3/4" (44 mm)
3 3/4" (95 mm)	2" (51 mm)
5" (127 mm)	2 1/4" (57 mm)
6" (152 mm)	

Operative dummy handle either side. Case front includes integrated strike and dust box to be utilized on inactive leaf.

Strike regularly supplied with curved lip.

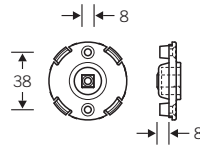
(ANSI Standard A 115.1)

Dummy Set YL/AS

(Double Lever)
Active Dummy Mortise Case
Prepared as strike

For pairs of doors

Fixed Dummy Mounts for 55 mm Roses

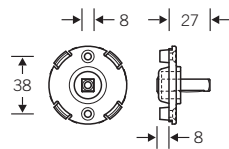


0423 0000

Double dummy mount plate with lugs for through-bolting.

Dummy mount bar not required.

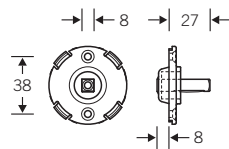
To be used with straight spindle 0156 for double dummy mount.



0423 0200

Single dummy mount equipped with lugs for through-bolting.

To be used in conjunction with any FSB blind rose.

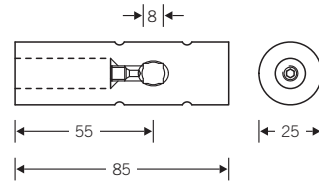


0423 0400

Single dummy for surface mount.

Without lugs.

Fixed Dummy Mounts for 65 mm Roses and Backplates

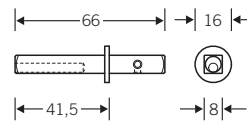


0423 0500

Dummy mount bar

1" edge-bore required.

For 2 3/8" and 2 3/4" backset.

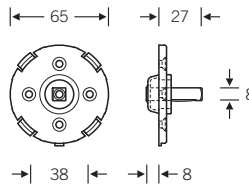


0423 0501

Half spindle for single dummy mount.

Only to be used in conjunction with FSB 0423 0500.

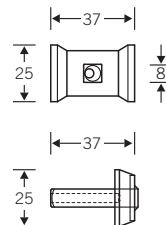
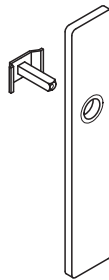
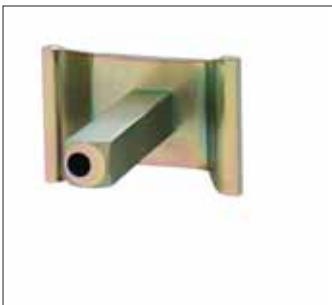
For 1 3/4" to 2 1/4" door thickness, with 7 mm roses and 1 3/8" to 2" door thickness with 14 mm roses.



0423 0700

Single dummy for surface mounting with the 1798 (65 mm) rose.

Without lugs.



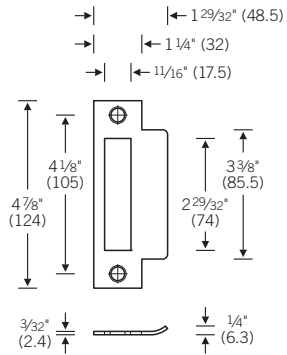
0423 0600

Dummy mount for single or double application.

To be combined as retrofit item with escutcheon plate series 1410, 1418, 1452 and 1453.

FSB has created this dummy mount to clip into the back of all FSB escutcheon plates. It can be used with a surface mounted escutcheon on one side as a single dummy mount. While not required, it is always recommended to through bolt to a blind escutcheon plate in these single sided applications.

Strikes



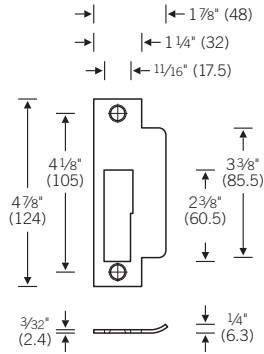
SM 1001

SM Series Mortise Strike (ANSI/ASA Strike) with dustbox

SM 1001 99

SM Series Extended Lip* Mortise Strike (ANSI/ASA Strike) with dustbox

* designate lip to center measurement required



NM 1001

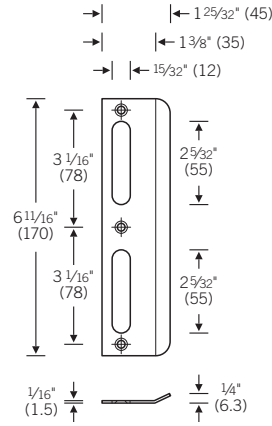
NM Series Mortise Strike (ANSI/ASA Strike) with dustbox

NM 1001 99

NM Series Extended Lip* Mortise Strike (ANSI/ASA Strike) with dustbox

* designate lip to center measurement required

Strikes



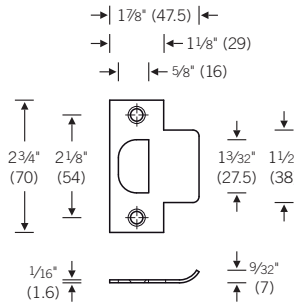
EM 1001

EM Series Mortise Strike with dustbox

SM 1001 99

EM Series Extended Lip* Mortise Strike with dustbox

* designate lip to center measurement required



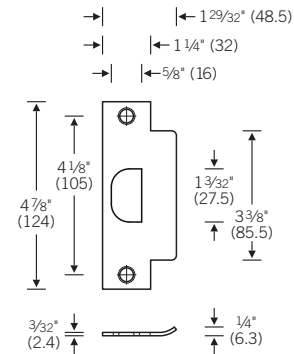
HL 1001

HL Series Strike with dustbox

HL 1001 99

HL Series Extended Lip* Strike with dustbox

* designate lip to center measurement required



HL 1002

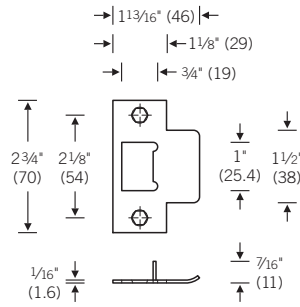
HL Series Strike (ANSI/ASA Strike) with dustbox

HL 1002 99

HL Series Extended Lip* Strike (ANSI/ASA Strike) with dustbox

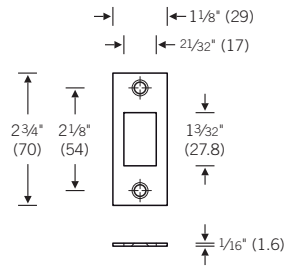
* designate lip to center measurement required

Strikes



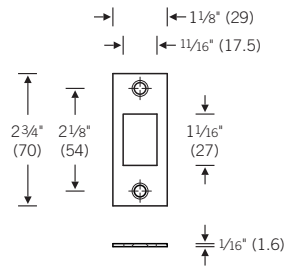
KL 1001

Strike with dustbox for
KL 7050 (Knob and Lever
Latch)



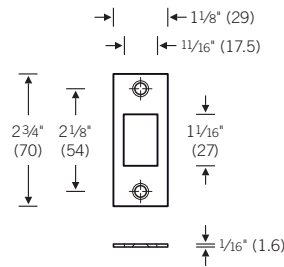
HD 1001

Strike with dustbox for
HD 7020 (Heavy Duty Privacy
Deadbolt)



MD 1001

Strike with dustbox for
MD 7060 (Medium Duty Privacy
Deadbolt)



KD 1001

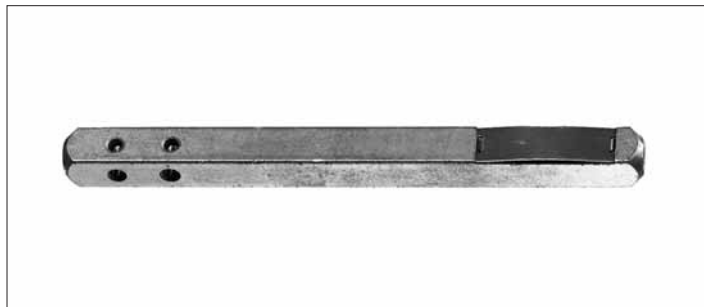
Strike with dustbox for
KD 7070 (Keyed Deadbolt)

FSB Half Spindle and Straight Spindle



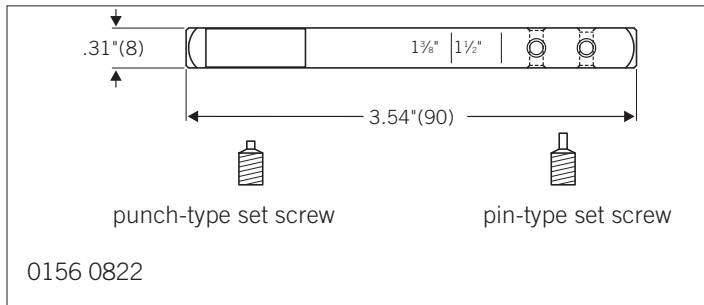
0103 0808 8 × 55 mm
 0103 0812 8 × 65 mm
 0103 0816 8 × 75 mm

0103
 FSB half spindle



0156 0822 8 × 90 mm
 0156 0827 8 × 103 mm
 0156 0830 8 × 110 mm
 0156 0833 8 × 117 mm

0156
 FSB straight spindle
 Straight spindles available for DT (Door Thickness) up to 3¾" on request.



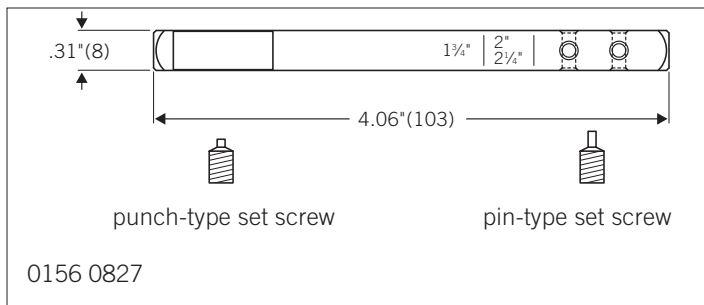
Installation Instructions for FSB Straight Spindles (0156)

1. Once the lock or latch has been properly fitted, remove the punch-type set screw from an FSB lever handle, insert the pin end of the FSB straight spindle up to the marking for the appropriate door thickness (DT), replace the set screw with the pin-type set screw provided with the straight spindle and tighten until the head of the set screw is lying flush with the surface of the handle shank.

Thereafter fix the opposite handle over the inside end of the straight spindle while at the same time pressing the already fitted handle against that face of the door. Tighten punch-type set screw until the spring plate is pierced. This screw should now be lying flush with the surface of the handle as shown on the left page.

3. Once the lever handle set has been fitted, test the action several times by opening and closing the door. The lock spring is designed to return the handle to the horizontal position after operation. If the handle works stiffly, the fixing process should be repeated replacing or reversing the spindle's spring plate.

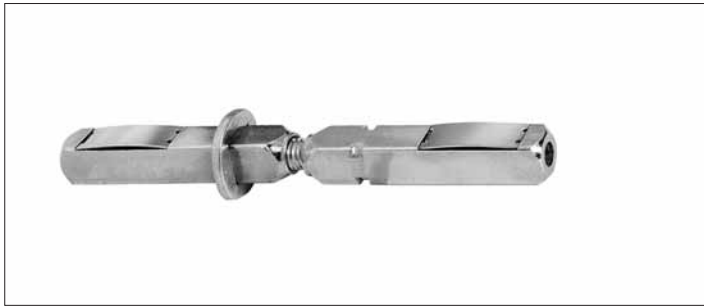
Note: Ensure that the spring plate is in the same orientation as the initial set screw, facing out toward the leading edge of the door, to receive the opposite lever and punch-type set screw.



2. Firmly insert the FSB lever handle with spindle attached through the hub of the lock.

When ordering a standard FSB lockset or latchset, provide the appropriate door thickness to get the correct spindle length. To select the appropriate spindle separately please consult the spindle charts on the next page.

FSB Swivel Spindle

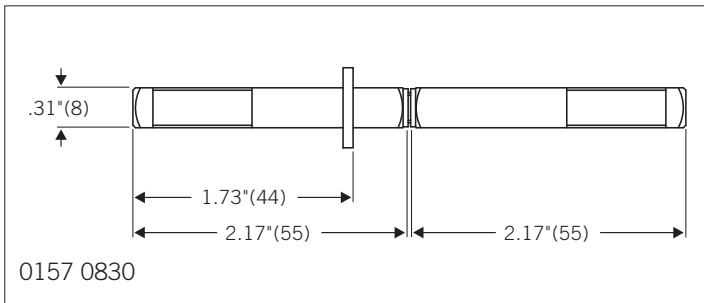
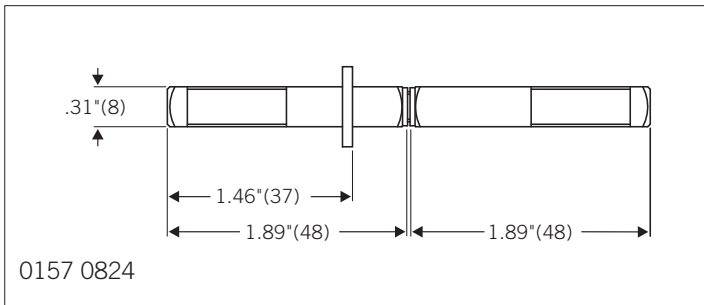


0157 0824 8 × 96 mm
 0157 0830 8 × 110 mm
 0157 0834 8 × 120 mm

0157

FSB swivel spindle

Swivel spindles available for DT (Door Thickness) up to 3¾" on request.



Installation instructions for FSB swivel spindles (0157)

1. Once the lock or latch has been properly fitted, guide the swivel spindle from outside until the washer stops the insertion movement, allowing for the spindle to fully engage the FSB mortise lock or tubular latch case.

This is a security precaution and allows both spring plates to be optimally located to receive the set screws of both handles.

Note: Ensure that both spring plates are in the same orientation and facing out toward the leading edge of the door, to receive the punch-type set screws.

2. Then, having attached the roses, fit the outside handle over the outside end of the swivel spindle and firmly tighten the punch-type set screw until the spring plate is pierced. The screw should now be lying flush with the surface of the handle shank.

3. Now firmly press the other handle over the inside end of the swivel spindle while at the same time pressing the already fitted handle against that face of the door. Tighten punch-type set screw as for other side.

4. Once the lever handle set has been fitted, test the action several times by opening and closing the door. The lock spring is designed to return the handle to the horizontal position after operation. If the handle works stiffly, the fixing process should be repeated replacing or reversing the spindle's spring plate.

Important note: Prior to inserting swivel spindle into any lock or latch, ensure that both spindle parts are separated by at least one rotation.

When ordering a standard FSB lockset or latchset, provide the appropriate door thickness to get the correct spindle length. To select the appropriate spindle separately please consult the spindle charts to the right.

For use with 7 mm thick roses 1707, 1731, 1758 and 1798

DT	Swivel	Straight	Half
1⅜"	0157 0824	0156 0822	0103 0808
1½"	0157 0824	0156 0822	0103 0808
1¾"	0157 0824	0156 0827	0103 0812
2"	0157 0830	0156 0827	0103 0812
2¼"	0157 0830	0156 0827	0103 0812

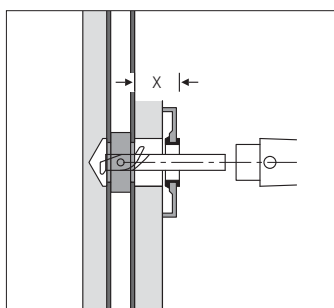
For use with 14 mm thick roses 1799

DT	Swivel	Straight	Half
1⅜"	0157 0824	0156 0830	0103 0812
1½"	0157 0824	0156 0830	0103 0812
1¾"	0157 0830	0156 0830	0103 0812
2"	0157 0830	0156 0833	0103 0816
2¼"	0157 0834	0156 0833	0103 0816

FSB One Sided Spindle For European Mortise Lock



In choosing the correct FSB stabil-half-spindle, use the measurement of X as an aid. The measurement of X is the distance between the outer rim of the bushing of the backplates or roses and the lock follower.

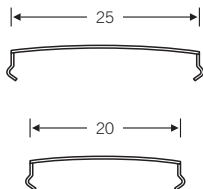


0115

FSB one sided spindle
for doors drilled on one side

Dimension X

0115 0810	8 × 60 mm, 20 – 24 mm
0115 0812	8 × 65 mm, 25 – 29 mm
0115 0814	8 × 70 mm, 30 – 34 mm
0115 0816	8 × 75 mm, 35 – 39 mm
0115 0818	8 × 80 mm, 40 – 44 mm



0402

Set screw with piercing punch

0402 0601	M6 × 8,0 mm
0402 0602	M6 × 9,0 mm
0402 0603	M6 × 10,5 mm
0402 0604	M6 × 11,5 mm

0406

Spring plate

0406 2508	25 mm
0406 2008	20 mm



0442 50

FSB stabil-blind-spindle

8 × 75 mm, suitable for door
thickness 36 to 45 mm

Spindles Accessories



Solid □-spindles 8 mm

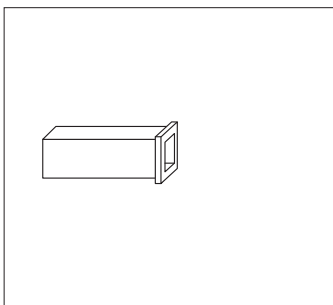
0172 0810	8 × 60 mm
0172 0814	8 × 70 mm
0172 0818	8 × 80 mm
0172 0822	8 × 90 mm

Solid □-spindles 8 mm

0172 0826	8 × 100 mm
0172 0830	8 × 110 mm
0172 0834	8 × 120 mm
0172 0838	8 × 130 mm
0172 0842	8 × 140 mm
0172 0846	8 × 150 mm
0172 0850	8 × 160 mm

0172

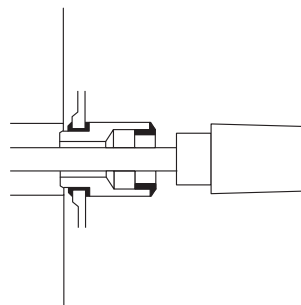
Solid □-spindles 8 mm



xxxx = 0809	8 on 9,0 mm
xxxx = 0810	8 on 10,0 mm
xxxx = 0910	9 on 10,0 mm
xxxx = 0885	8 on 8,5 mm

0425 xxxx

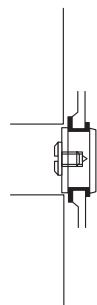
Adaptor sleeve
for lever handles spindles/lock
follower



0440 xx

Lever handle distance rose to
increase the distance between
door and lever handle

- Aluminum
- Stainles Steel (20 mm only)
- xx = 20 (20 mm)
- xx = 25 (25 mm)
- xx = 30 (30 mm)



0441

Blind rose
to blank out the lever handle
hole on escutcheon plates

- Aluminum



0526

Threaded rivets for metal doors.

M5 × 25 mm

To be used with narrow style
rose 1758.

Screws



xx = 40 (4.2 × 40 mm)
 xx = 45 (4.2 × 45 mm)
 xx = 50 (4.2 × 50 mm)
 xx = 55 (4.2 × 55 mm)
 xx = 60 (4.2 × 60 mm)
 xx = 65 (4.2 × 65 mm)
 xx = 70 (4.2 × 70 mm)
 xx = 80 (4.2 × 80 mm)

0302 42 xx

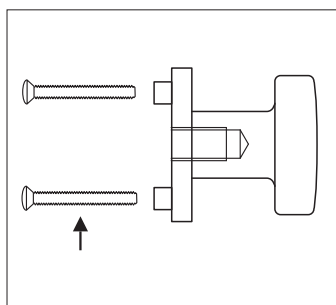
Galvanized Steel Lens
 Head Tapping Screw



0303 05xx

Cross recessed raised
 countersunk oval head bolt

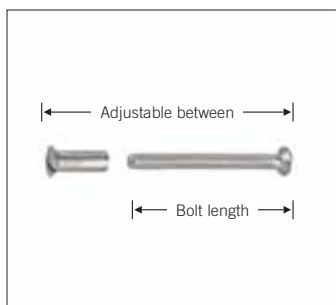
xx = 15 (M5 × 15 mm)
 xx = 35 (M5 × 35 mm)



xx = 55 (M5 × 55 for door thickness 47 – 56 mm)
 xx = 65 (M5 × 65 for door thickness 57 – 66 mm)
 xx = 75 (M5 × 75 for door thickness 67 – 76 mm)
 xx = 85 (M5 × 85 for door thickness 77 – 86 mm)
 xx = 95 (M5 × 95 for door thickness 87 – 96 mm)
 xx = 01 (M5 × 105 for door thickness 97 – 106 mm)

0308 05xx

Cross countersunk head screws
 for back-to-back fixing knobs
 (Items-No. 23xx 06), for door
 thickness up to 47 mm.



Size	Bolt length	Adjustable between	For door thickness
xx = 35	35 mm	37 – 45 mm	25 – 33 mm
xx = 40	40 mm	42 – 50 mm	30 – 38 mm
xx = 45	45 mm	47 – 55 mm	35 – 43 mm
xx = 50	50 mm	52 – 60 mm	40 – 48 mm
xx = 55	55 mm	57 – 65 mm	45 – 53 mm
xx = 60	60 mm	62 – 70 mm	50 – 58 mm

0309 04xx

Sex bolts with M4 threaded
 sleeve nut 0309



0313

Mounting posts for pull handles

0313 0670 M6 × 70 mm
 0313 0680 M6 × 80 mm

0313 0880 M8 × 80 mm



0315 xxxx

Cross recessed metal screw

xxxx = 2916 (2,9 × 16 mm)
 xxxx = 3916 (3,9 × 16 mm)
 xxxx = 4219 (4,2 × 19 mm)

