FSB North America
Catalog

Effective May 1, 2018
Rev. 01







Lever 1163 in aluminum 0510 finish.

Table of Contents

Introduction		**Introduction**	**1**
		Materials & Finishes	6
		Collections	15
Levers	Lever Handle Designs	**Levers**	**20**
		Overview	21
		Levers	23
Mortise Locks	Standard Mortise Locks	**SML & SMT**	**78**
		Features and Ordering	79
		Functions	81
		Trim Sets, Parts and Specs	103
	Narrow Mortise Locks	**NML & NMT**	**122**
		Features and Ordering	123
		Functions	125
		Trim Sets, Parts and Specs	139
	European Mortise Locks	**EML**	**154**
		Features and Ordering	155
		Functions	157
		Trim Sets, Parts and Specs	159
Tubular Latches	Heavy Duty Lever Latches	**HLL & HLT**	**172**
		Features and Ordering	173
		Functions	175
		Trim Sets, Parts and Specs	181
Tubular Deadbolts	Deadbolts	**HDD & HDT**	**188**
		Features and Ordering	189
		Functions	191
		Trim Sets, Parts and Specs	193
	Keyed Deadbolts	**KDD & KDT**	**201**
		Features and Ordering	201
		Functions	203
		Trim Sets, Parts and Specs	205
Sliding Door Locks	Sliding Door Lever Lock	**SLL & SLT**	**210**
		Features and Ordering	211
		Functions	213
		Trim Sets and Specifications	217
	Sliding Door Locks	**Sliding & Pocket Door Locks**	**222**
		Features and Ordering	223
		SDL, SPL, ESL, EPL Functions	225
		Trim Sets and Specifications	235
	Sliding Door Hardware	**Sliding Hardware Overview**	**244**
		Flush and Edge Pulls	245





Multi-Point

Lift and Slide

Glass Door Locks

Door Pulls, Knobs

Accessories

Parts

Multi-Point	**Multi-Point**	**258**
	Features and Ordering	259
	Trim Sets	261
Lift and Slide	**Lift and Slide**	**269**
	Features and Ordering	269
	Functions and Trim	271
Glass Door Locks	**EGS, EGR, EGC**	**278**
	Features and Ordering	279
	Functions	281
Door Pulls, Knobs	**Door Pull Introduction**	**292**
	Overview	293
	Pull Handles	297
	Fastening	345
	Fixed Door Knobs	355
Accessories	**Accessories**	**362**
	Hinges	362
	Door Stops & Cabinet Knobs	375
	Letter Plates & Intercom	383
	Bathroom Accessories	391
	Window Handles	412
Parts	**Parts**	**418**
	Lock Correlation Table	420
	Lock Bodies	421
	Spindles	435
	Fasteners and Screws	438
	Product Number Index	442

Franz Schneider Brakel
A gripping story that's none too short.



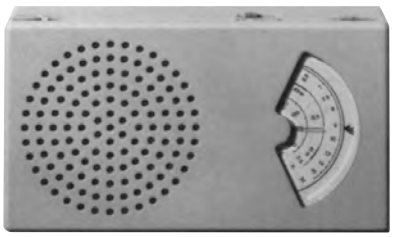
Getting a grip on architecture: It's in your hands.

FSB has grown from a manufacturer focused on designing handles that are comfortable to the hand into a company that has taken our "hand culture" and extended the concept of linking architecture to people with all our products. Today we combine our handles (levers and knobs) with high quality locksets for swinging and sliding doors, door pulls for glass, wood and metal doors, hinges, bathroom accessories, and a host of supporting hardware in matching styles and finishes.

A capacity for technological innovation, for reflecting critically upon what we do, and also for delivering at the cultural level is part and parcel of the way we see ourselves. Taking our products made in Germany and integrating with high quality electrified and mechanical locking devices for the North American market is a natural extension of our European heritage. Thus it comes as no surprise that our design solutions set the standard for noted architects here and the world over when the emphasis is on style.

Design for doors, windows – museums

Architecture brands began to emerge during West Germany's "economic miracle" of the 1950's. Design and architecture, which had gone into retreat with the closure of the Bauhaus and the turmoil of the war, were now substantively revived. Great names such as Ray and Charles Eames provided inspiration with their functional furniture designs.



The Dane Arne Jacobsen designed classics like the stackable "Series 7" chair and buildings in the spirit of the Bauhaus. Dieter Rams started pulling the (design) strings at Braun and authored products whose styling has now become the blueprint for products by a Californian company with an apple in its logo.

The debate about "good form" was joined by FSB too, decisively so in the decade between 1953 and 1963. Johannes Potente created his seminal molded-to-the-hand style that is still applicable today. Inspired by Potente, Otl Aicher created his "Four-Point Guide to Good Grip" which is still applicable today. Specialists and the general public caught on to Johannes Potente's unsung industrial design in a big way after his death, when his work joined important collections of models such as the permanent exhibition at the Museum of Modern Art in New York.

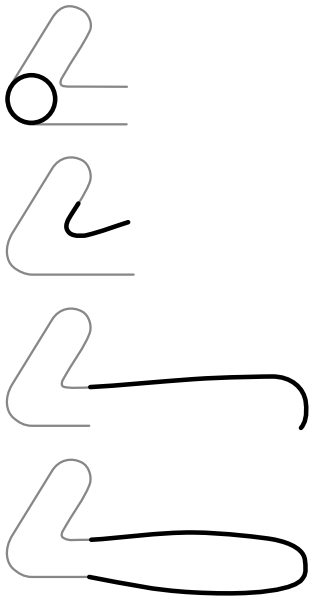


At the same time as steadily growing our design excellence, we have never ceased refining our manufacturing processes either: an ongoing policy of modernizing and optimizing production technologies and routines has colluded with our predilection for "feisty" materials like fine-grade steel, aluminium, brass and bronze to ensure our products last far longer than ought to be to our liking from a business economics point of view.

Publishers with a sideline in door handles

We again took our future into our own hands in the 1980's. Under the intellectual guidance of designer Otl Aicher, we subjected our activities to critical analysis and in the process came up with a series of guiding principles that are still valid today. A fundamentally new design culture was born that, as well as addressing itself to the company's origins and tradition, is also rooted in the cultural history of handles in particular and the concept of holding things in general.

Mr. Aicher devised his "Four-Point Guide to Good Grip, for us, which states that any good handle will feature a thumb rest, a forefinger furrow, support for the palm, and sufficient gripping bulk. As an outcrop of the process of critical analysis and re-orientation was the edition of books that now are part of the standard repertoire of some college design programs.



Otl Aicher "rewarded" us for our analytic probings by producing the stylized-handle logo so popular amongst handle culture enthusiasts today for FSB. It was inspired by a handle as unfussy as it was clever which the philosopher Ludwig Wittgenstein designed for the house built between 1926 and 1928 in Vienna for his sister.



"A rod only becomes a lever through the nature of its use", is how Wittgenstein summed up the simplicity underpinning his design. His handle was something of an ideal for Otl Aicher. He viewed it not as an optimum moulded-to-the-hand design but as a handle for all conceivable forms of operation – including with one's little finger. It is the sum of all handles, their quintessence. A fitting logo for us as we see it.



Names wanted (but not for dropping)

Our legendary Door Handles Workshop held in 1986 at our facility in Brakel, Germany was attended by celebrities such as Mario Botta, Peter Eisenman, Hans Hollein, Alessandro Mendini, and Dieter Rams sent out quite a shock wave.

Even those who had previously managed to grasp the world without FSB were soon cognizant with the workshop findings. Overnight, a product that had long been considered of little interest was turned into a design theme by one of the first "name design" projects. Noted architects and designers now started to apply lock designs to support their creative visions.

It all started with cabinet fittings

FSB was originally located not in B for Brakel but in Iserlohn. This is where Franz Schneider set up shop in 1881 as a maker of antique-style cabinet fittings and sober devotional items in brass. Both were exceedingly modern at the time - and our founder was good at catering to prevailing trends: by the turn of the century his product offering already filled a handy catalogue. 1909 saw the company's domicile move from a provincial town in the Sauerland to one in eastern Westphalia. Frank Schneider promptly added B for Brakel to his initials and the proud FSB brand was born. Then as now, a key focus of its trade concerned classic hardware for doors and windows.

Terms and Conditions

Prices
Please note that all list prices given in this guide are in US dollars.

Freight
F.O.B. Berlin, Connecticut

Terms
Payment in full required within 30 days.

Acknowledgements
When FSB North America receives an order an "Order Acknowledgment" is issued to the customer which details the order and gives the expected shipment date. Please check the items and pricing on the acknowledgement thoroughly to ensure accuracy.

Returns
Provided goods are in saleable condition, FSB North America accepts returns of stock items for a restocking charge of 45% with a $75.00 minimum.

Please contact FSB North America in writing for a "Return Goods Authorization" (RGA). Goods are only credited if a customer has been issued a RGA and the goods are received in saleable condition. Once the goods are received, FSB North America will issue a credit memo, which can be applied to your next payment. If the items are not returned within 45 days, the RGA is voided. Custom special order products are not returnable.

Order Cancellations
FSB will do our best to accommodate order changes and or cancellations prior to production. Orders in production cannot be modified or cancelled.

Minimum Order Size
There is a $75.00 minimum order requirement. Orders for parts will be allowed below the minimum order size but will be invoiced at full list price. No discount will apply.

Standard Discount
Standard discount is 50% off current published list price. All parts are sold at standard discount regardless of customer buying program.







Product Warranties and Liability

1. All goods sold are warranted to be free from defects in material and workmanship, the foregoing comprise seller's sole and entire warranty provided:

a) The Company has been notified within the time frame from the purchase date from FSB as listed under "Term" in the chart below, and been given the opportunity of inspection by return of any alleged defective Product to the Company, free and clear of all liens and encumbrances, transportation prepaid, accompanied by the statement of defects and proof of purchase: and

b) The Product has not been modified, abused, misused, or improperly installed, maintained and/or repaired during such period. All other warranties, written or oral, expressed or implied, and including but not limited to warranties of merchantability or fitness for intended purpose, are expressly excluded.

2. Seller's sole obligation under these warranties, during the period after date of manufacture as listed below, shall be to issue credit, repair or replace any item or part thereof, which is proved to be other than as warranted. Seller shall have the sole right to determine whether such parts shall be repaired or replaced or whether credit shall be issued. No allowances shall be made for any labor charges for replacement of parts, adjustments or repairs, or any other work. In no event shall seller be liable for collateral or consequential damages.

3. We do not warrant against defects caused by improper installation nor against the consequences of uses for which our products were not designed, especially if an FSB lever handle is used with a non-FSB component part such as a mortise lock or tubular latch other than recommended. Our warranty shall only apply if, and to the extent that the purchaser can show that the FSB Product itself was defective and the defect was not related to alteration or to adverse effects of such use with a non-FSB Product or components.

4. If goods are claimed to be other than as warranted, seller, upon notice promptly given, will either examine the goods at the buyer's site or issue shipping instructions for return to seller (transportation costs prepaid by buyer). These warranties shall not extend to any goods or parts thereof which have been subjected to misuse or neglect, damage by accident, rendered defective by reason of improper installation or by the performance of repairs, modifications or attachment to other products outside of seller's plant.

Care/Cleaning

Stainless steel needs to be cleaned for aesthetic considerations and to preserve corrosion resistance. Stainless steel is protected from corrosion by a thin layer of chromium oxide. Oxygen from the atmosphere combines with the chromium in the stainless steel to form this passive chromium oxide film that protects from further corrosion. Any contamination of the surface by dirt, or other material, hinders this passivation process and traps corrosive agents, reducing corrosion protection. Thus, some form of routine cleaning is necessary to preserve the appearance and integrity of the surface. Stainless steel surfaces thrive with frequent cleaning because there is no surface coating to wear off. A soft cloth and clean warm water should always be the first choice for mild stains, loose dirt and soil. For more aggressive cleaning, a small amount of vinegar can be added to warm water. A final rinse with clean water and a dry wipe will complete the process and eliminate the possibility of water spots. Cleaning with solutions containing chlorine, such as acetone, methyl alcohol, and mineral spirits must be avoided.

Brass and Bronze are both copper alloys (Brass is copper and zinc, Bronze is copper and tin) and when exposed to air and moisture, they will develop a greenish layer of build-up on its surface called patina. While this darkened finish does add character to the brass and bronze, some consider it unsightly, and would prefer their bronze to look clean and shiny. To clean the patina, rinse the brass or bronze with warm water and dry thoroughly to remove dust and particles. Mix two tablespoons of baking soda and a teaspoon of lemon juice until a soft paste forms. Wearing rubber gloves apply the paste with a polishing cloth and rub in small circular motions and repeat until the desired effect is reached. Let sit for 20 to 30 minutes and then rinse with thoroughly with warm water to remove the paste. Buff dry with clean towel. If patina still remains repeat process. Cleaning with solutions containing chlorine, such as acetone, methyl alcohol, and mineral spirits must be avoided.

Aluminum is the earths most abundant metal element and is used for a wide array of applications ranging from aircraft skins to baseball bats. Anodizing provides aluminum a very durable, corrosion resistant, and long lasting finish. To clean, squeeze one or two drops of mild dish washing detergent into a cup of water. Apply the soapy water to a sponge and scrub the aluminum surface vigorously. Rinse the anodized aluminum surface with clean water and then dry it with towels. Cleaning with solutions containing harsh acidic or alkaline cleaners as they may destroy your finish and should be avoided.

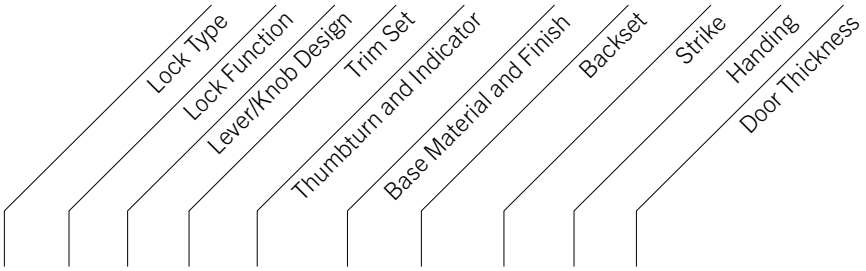
Product	Description	Term
SML/SMT, NML/NMT Mechanical	Mortise Locks	10 years
EML Mechanical	Mortise Locks	5 years
HLL/HLT, HDD/HDT, KDD/KDT Mechanical	Tubular Latches and Dead Bolts	3 years
SDL, SPL, SLL/SLT Mechanical	Sliding Door Locks	5 years
ESL, EPL, ESN Mechanical	European Sliding Door Locks	3 years
EGS, EGR, EGC Mechanical	European Glass Door Locks	3 years
Electrified Locks	All Electrified Locks and Components	3 years
Trim, Pulls, Hinges, and Accessories		2 years

Ordering Guidelines

To place an order direct with FSB North America please email orderdesk@fsbna.com
You can also watch a video on how to create an FSB Ordering String on our YouTube Channel.
Watch the video by clicking on this link or typing this into your web-browser: bit.ly/FSB-String

When ordering locksets such as an SML you will use a numbering string as shown in our example below.

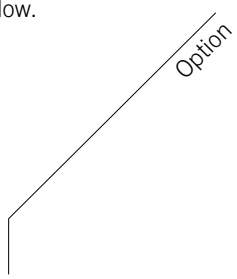
Example: Standard Mortise Lock –SML



SML-E-1147-RA-SI-6204-234-M1-RH-134

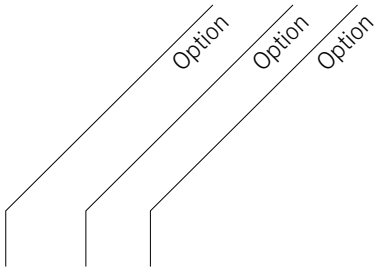
When adding options, use the **bold** codes found in the options area at the end of each pricing section as a suffix.

Using the same example as above, we have added the "Less Cylinder" option designated as LC and listed as a suffix to our standard ordering string below.



SML-E-1147-RA-SI-6204-234-M1-RH-134-LC

A more complex example may be as follows:



SML-JEU-1147-RA-6204-234-M1-RH-134-12V-RX-LC

In this example we have ordered an Electrified Storeroom, Fail Secure function lock signified by added four options, which are 12V for the electrified voltage (12 or 24 volt are available and must be specified), RX for a Request to Exit switch, and LC for Less Cylinder. The order of your options is not important.

Materials & Finishes

FSB Hardware is available in twenty-three (23) finishes from our three series of door furniture: Premium, Elements and Transitions.

Premium Series offers natural stainless steel and bronze finishes. **Elements Series** utilizes aluminum and our state-of-the-art anodizing capability which allows us to offer an assortment of rich, yet rugged colors. We also offer black or white powder coated colors standard. **Transitions Series** comes with both plated and natural finishes on forged brass.

We invite you to contact us if you have special color requirements.

Our finishes are listed below showing the base material and the color code for natural, anodized, and plated finishes. On the following pages the finish illustrations are close approximations of the actual finish. FSB offers physical finish samples should you require this for your decision-making process.

	Base Material	**FSB Finish** (BHMA Code) [Former US Equivalent]
Premium	Stainless Steel	**6204** Satin (630) [US32D] **6205** Polished (629) [US32]
	Bronze	**7305** Polished, Waxed (611) [US9] **7615** Aged, Waxed (615) **7625** Dark Oxidized, Waxed (613) [US10B]
Elements	Aluminum Anodized	**0105** Natural Color (628) **0205** Champagne Silver Color **0410** Bronze Color **0510** Medium Bronze Color **0710** Dark Bronze Color (710) **0810** Black Color (711)
	Aluminum Powder Coated	**8120** Black (671) **8220** White (714)
Transitions	Brass	**Plated** **014** Polished Nickel (618) [US14] **015** Satin Nickel (619) [US15] **026** Polished Chrome (625) [US26] **03P** Polished Brass, PVD **Natural** **003** Polished Brass (605) [US3] **004** Satin Brass (606) [US4] **10B** Satin Brass Dark Oxidized (607)
Accessories	Stainless Steel Bronze Aluminum	Same as shown above in Premium and Elements
	Brass	**4205** Polished, Lacquered (605) [US3] **4305** Polished, Waxed [US3] **4404** Oxidized, Waxed (607)

Premium

Stainless Steel

6204
Satin
(630) [US32D]

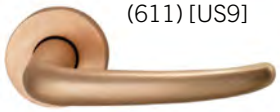


6205
Polished
(629) [US32]



Bronze

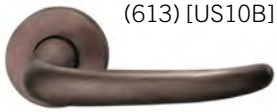
7305
Polished, Waxed
(611) [US9]



7615
Aged, Waxed
(615)



7625
Dark Oxidized, Waxed
(613) [US10B]



Elements

Aluminum Anodized

0105
Natural Color
(628)



0205
Champagne Silver Color



0410
Bronze Color



0510
Medium Bronze Color



0710
Dark Bronze Color



0810
Black Color



Aluminum Powder Coated

8120
Black
(671)



8220
White
(714)



Transitions

Plated Brass Finishes



014
Polished Nickel
(618) [US14]



015
Satin Nickel
(619) [US15]



026
Polished Chrome
(625) [US26]



03P
Polished Brass, PVD
(605) [US3]

Natural Brass Finishes



003
Polished Brass
(605) [US3]



004
Satin Brass
(606) [US4]



10B
Satin Brass Dark Oxidized
(607)

Door Pulls and Accessories

Stainless Steel
Bronze
Aluminum

As seen on previous page

Brass



4205
Polished, Lacquered
(605) [US3]



4305
Polished, Waxed
[US3]



4404
Oxidized, Waxed
(607)

Premium

Stainless Steel

6204
Satin
(630) [US32D]



6205
Polished
(629) [US32]



Premium

Bronze

7305
Polished, Waxed
(611) [US9]



7615
Aged, Waxed
(615)



7625
Dark Oxidized, Waxed
(613) [US10B]



Elements

Aluminum Anodized

0410
Bronze Color



0510
Medium Bronze Color



0710
Dark Bronze Color
(710)



0810
Black Color
(711)



Elements

Aluminum Anodized

0105
Natural Color
(628)



0205
Champagne Silver
Color

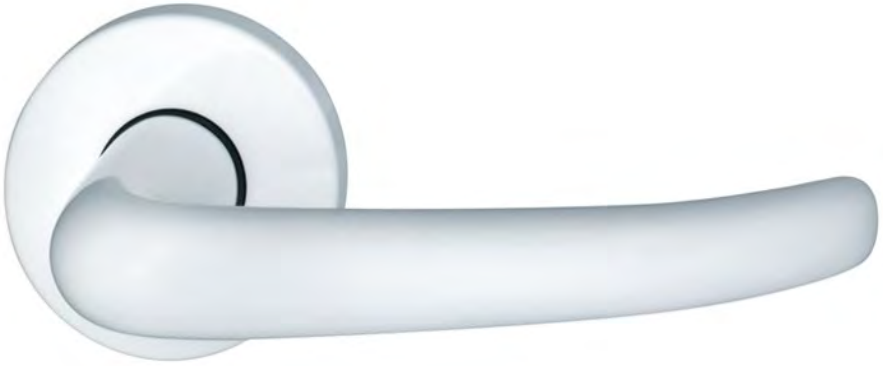


Powder Coated

8120
Black
(671)



8220
White
(714)



Transitions

Plated Brass Finishes

014
Polished Nickel
(618) [US14]



015
Satin Nickel
(619) [US15]



026
Polished Chrome
(625) [US26]



03P
Polished Brass, PVD
(605) [US3]



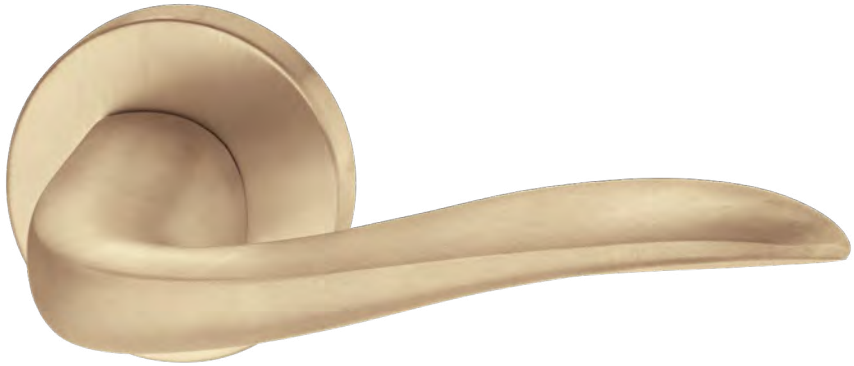
Transitions

Natural Brass Finishes

003
Polished Brass
(605) [US3]



004
Satin Brass
(606) [US4]



10B
Satin Brass Dark Oxidized
(607)



Collections

FSB is known for the cool clean lines of our product designs. Using stainless steel and aluminum we have become the "go-to" for modern and contemporary projects. As you browse this catalog/ price book, our website, and our literature you will quickly realize that our greatest selection of products come in stainless steel and aluminum. But don't box FSB into one corner of your creative mind.

As new materials are used to achieve new design elements in building architecture, FSB has expanded its use of bronze, brass, and aluminum to offer more warm colors, finishes, and textures while staying true our German design influence. The preceding and following pages attempt to give you a better understanding and feel for the width and depth of FSB.

Contact us for specific design needs.

FSB Material Identifier

Next to each product number you will find a key of colored boxes detailing which base material that product is available in. For example, if a product in available in aluminum you will find a grey colored box to the right of the product number ( ). After determining the base metal you can then choose which finish fits your design needs and there are 8 different standard aluminum finishes to choose from in that base metal.

Stainless Steel

Bronze

Aluminum

Brass

Stainless Steel

1078



There are 41 levers available in stainless steel. See page 21 for the full overview of levers.

23 0803



There are 8 fixed knobs available in stainless steel. See page 293 for the full overview of fixed knobs.

66 6540



There are 51 pulls available in stainless steel. See page 293 for the full overview of door Pulls.

Aluminum

1107



There are 50 levers available in aluminum. See page 21 for the full overview of levers.

23 0844



There are 8 fixed knobs available in aluminum. See page 293 for the full overview of fixed knobs.

66 6643



There are 18 pulls available in aluminum. See page 293 for the full overview of door Pulls.

Brass Collection

1035
Page 38



1058
Page 43



1075
Page 46



1076
Page 47



1241
Page 70



1250
Page 71



1251
Page 72



1252 Ⓕ
Page 73



1253 Ⓕ
Page 74



Trim



RA - 55mm



RD - 65mm



RM - 55mm



RS - 65mm

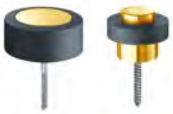


ED - Escutcheon

38 3826
Page 385



38 3878
38 3881
Page 376



38 3884
Page 378



42 4211
42 4212
Page 251



66 6602
Page 319



66 6662
Page 332



66 6679
Page 335



66 6683
Page 336



Bronze Collection

1004
Page 26



1015
Page 28



1016
Page 29



1020
Page 30



1023
Page 32



1045
Page 39



1053
Page 41



1057
Page 42



1058
Page 43



1076
Page 47



1102
Page 53



1106
Page 54



1119
Page 57



1134
Page 58



1163
Page 63



1164
Page 64



Bronze Trim Overview



34 1004
Page 413



34 1015
Page 413



34 1023
Page 413



34 1102
Page 414



34 1106
Page 414



34 1163
Page 415



23 0802
Page 355



23 0829
Page 357



38 3878
38 3880
38 3884
Page 376



36 3679
Page 381



36 3689
Page 380



36 3691
Page 380



New Item

38 3808
Page 384



38 3810
Page 387



38 3863
Page 387



38 4005
Page 388



34 1004
Page 273



34 1016
Page 273



42 4211
Page 251



42 4215
Page 276



42 4250
42 4251
Page 246



66 6506
Page 301



66 6507
Page 301



66 6533
Page 309



66 6534
Page 309



66 6535
Page 310



66 6536
Page 310



66 6537
Page 311



66 6538
Page 312



66 6602
Page 319



66 6662
Page 332



66 6669
Page 320



66 6681
Page 323



66 6683
Page 336





Introduction Lever Handles

In this manual, FSB presents its three series of door furniture. The Premium Series is our naturally finished stainless steel and bronze designs, Transitions Series which is our forged brass value program, and the Elements Series which is comprised of our aluminum anodized finishes.

These lever and knob designs, as well as all complementary trim can be used with our wide selection of American and European locking systems. Many designs also have complementary door pulls that are shown where available.

The material number for stainless steel – similar to ASTM 304 – is: 1.4301, based on DIN 17440.

The material numbers for aluminum – similar to ASTM B179-75 – are:
AlMg3: 3.3541.02
AlMg1: 3.3315
AlMgSi0,5: 3.3206,
all based on DIN 1725.

FSB would like to point out that aluminum is the most recyclable material currently being used to manufacture door hardware.

Symbol explanations

♿ ADA compliant products

All FSB lever handles are manufactured in compliance with the Americans with Disabilities Act (ADA).

Ⓕ Return Compliant products

Selected FSB lever handles as indicated are designed in compliance with local codes requiring the lever to return to within one-half inch of the door face (i. e. California Title 24).

Lever Overview

1001
Page 23



1002
Page 24



1003
Page 25



1004
Page 26



1005
Page 27



1015
Page 28



1016 Ⓕ
Page 29



1020
Page 30



1021
Page 31



1023
Page 32



1025
Page 33



1027
Page 34



1028
Page 35



1031
Page 36



1034
Page 37



1035
Page 38



1045
Page 39



1051
Page 40



1053
Page 41



1057
Page 42



1058
Page 43



1070
Page 44



1074
Page 45



1075
Page 46



1076
Page 47



1077
Page 48



1078
Page 49



1080
Page 50



1088
Page 51



1093
Page 52



Materials and Finishes

Premium

Stainless Steel
- 6204 (630)
- 6205 (629)

Bronze
- 7305 (611)
- 7615 (615)
- 7625 (613)

Elements

Aluminum
- 0105 (628)
- 0205
- 0410
- 0510
- 0710 (710)
- 0810 (711)
- Powder Coated

Transitions

Brass

Plated Brass
- 014 (618)
- 015 (619)
- 026 (625)
- 03P (605)

Natural Brass
- 003 (605)
- 004 (606)
- 10B (607)

1102
Page 53


1106
Page 54


1107
Page 55


1108
Page 56


1119 Ⓕ
Page 57


1134
Page 58


1144
Page 59


1146 Ⓕ
Page 60


1147
Page 61


1160
Page 62


1163
Page 63


1164
Page 64


1176
Page 65


1177
Page 66


1178
Page 67


1183
Page 68


1185
Page 69


1241
Page 70


1250
Page 71


1251
Page 72


1252 Ⓕ
Page 73


1253 Ⓕ
Page 74


1257
Page 75


1259
Page 76


Materials and Finishes

Premium

Stainless Steel
- 6204 (630)
- 6205 (629)

Bronze
- 7305 (611)
- 7615 (615)
- 7625 (613)

Elements

Aluminum
- 0105 (628)
- 0205
- 0410
- 0510
- 0710 (710)
- 0810 (711)
- Powder Coated

Transitions

Brass

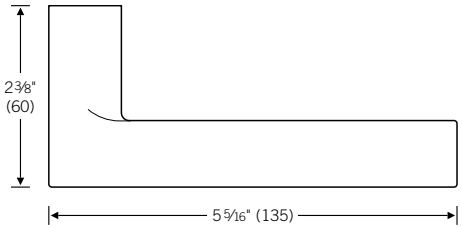
Plated Brass
- 014 (618)
- 015 (619)
- 026 (625)
- 03P (605)

Natural Brass
- 003 (605)
- 004 (606)
- 10B (607)

Lever Handle 1001

Architect Peter Bastian wanted his handle to be a graceful presence on tall, large doors as well as representing an almost doctrinaire reduction of the geometry. The result is a very accurately made door handle with a square cross-section that fits comfortably into your hand.





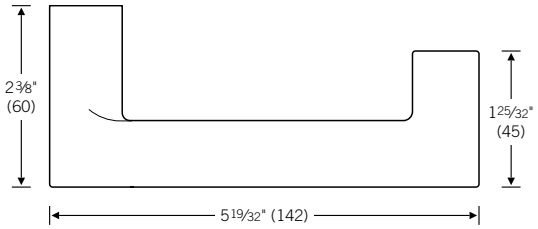
Design: Peter Bastian

	Premium	Elements	Transitions
Materials and Finishes		Aluminum 0105 (628) 0205 0410 0510 0710 (710) 0810 (711) Powder Coated	

Lever Handle 1002

Door handle 1002 is in no way inferior to the original model 1001 designed by Peter Bastian. The only addition is a return, which ensures design consistency.





Design: Peter Bastian

Premium

Materials and Finishes

Elements

Aluminum

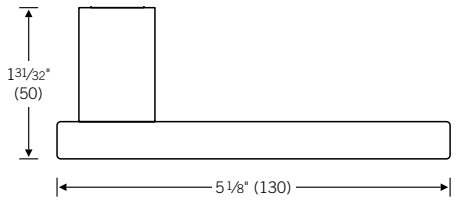
- 0105 (628)
- 0205
- 0410
- 0510
- 0710 (710)
- 0810 (711)
- ☐ Powder Coated

Transitions

Lever Handle 1003

The FSB 1003 door handle, which takes the shape of a slim door, is a model for real aficionados. Johannes Potente took up the design concept and implemented it in aluminium and stainless steel.



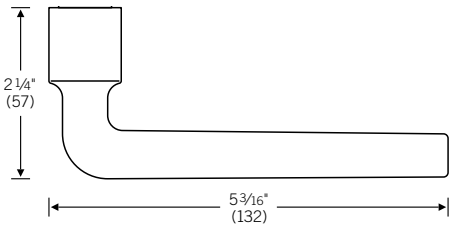


	Premium	Elements	Transitions
Materials and Finishes	Stainless Steel 6204 (630) 6205 (629)	Aluminum 0105 (628) 0205 0410 0510 0710 (710) 0810 (711) Powder Coated	

Lever Handle 1004

David Chipperfield's design for the FSB 1004 bears the hallmark of the pioneers of modernism. It is based on a clear formal concept which meets all of the functional requirements while giving expression to his formal idea in both public and private spheres.





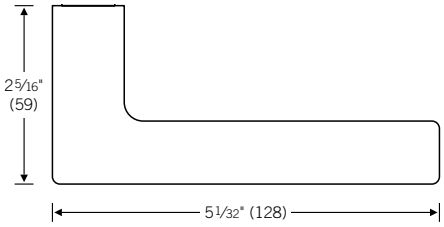
Design: David Chipperfield

	Premium		Elements	Transitions
Materials and Finishes	Stainless Steel	Bronze	Aluminum	
	6204 (630)	7305 (611)	0105 (628)	
	6205 (629)	7615 (615)	0205	
		7625 (613)	0410	
			0510	
			0710 (710)	
			0810 (711)	
			Powder Coated	

Lever Handle 1005

There are a lot of wedge-shaped door handles. Almost every manufacturer offers its own version of this basic shape. The original design for this door handle was most probably produced by Professor Max Burchartz. The FSB 1005 version by Johannes Potente is characterized by its slender proportions.



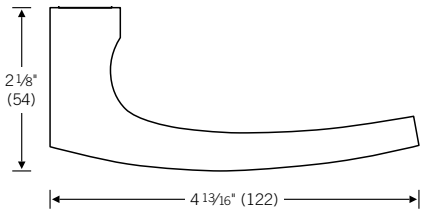


	Premium	Elements	Transitions
Materials and Finishes	Stainless Steel	Aluminum	
	6204 (630)	0105 (628)	
	6205 (629)	0205	
		0410	
		0510	
		0710 (710)	
		0810 (711)	
		Powder Coated	

Lever Handle 1015

We presume that the basic shape of our FSB 1015 model was conceived in the 1930s by a company called Wehag. This version by Johannes Potente has a very clear handle shape which creates a lot of interest, especially in the Netherlands.



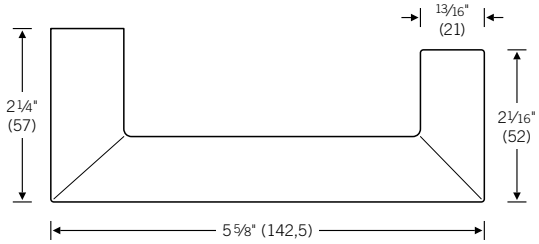


	Premium		Elements	Transitions
Materials and Finishes	Stainless Steel	Bronze	Aluminum	
	6204 (630)	7305 (611)	0105 (628)	
	6205 (629)	7615 (615)	0205	
		7625 (613)	0410	
			0510	
			0710 (710)	
			0810 (711)	
			Powder Coated	

Lever Handle 1016

In 1990, FSB introduced a door handle to the market which originated in the 1920s. The FSB 1076 model has since become the most-copied door handle of the last century. The version shown here, FSB 1016, is a more closed-off counterpart to it.





66 6514, refer to Pulls



Premium

Materials and Finishes

- Stainless Steel
  - 6204 (630)
  - 6205 (629)
- Bronze
  - 7305 (611)
  - 7615 (615)
  - 7625 (613)

Elements

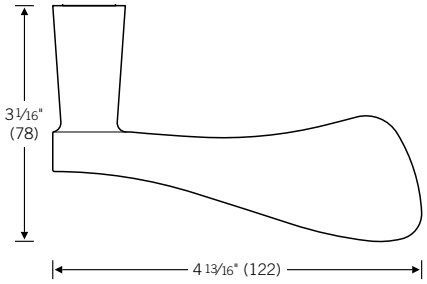
- Aluminum
  - 0105 (628)
  - 0205
  - 0410
  - 0510
  - 0710 (710)
  - 0810 (711)
  - ☐ Powder Coated

Transitions

Lever Handle 1020

The FSB 1020 model is the clearest embodiment of the "good form" of the 1950s. This is a handle with a flourish in the organic flow of its moulded-to-the-hand design and it looks symmetrical without actually being so. FSB 1020 is one of four models designed by FSB Designer Johannes Potente which have been added to MoMA's permanent collection.



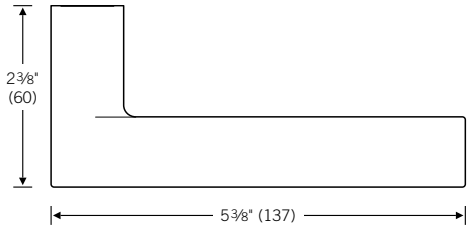


	Premium	Elements
Materials and Finishes	Bronze	Aluminum
	7305 (611)	0105 (628)
	7615 (615)	0205
	7625 (613)	0410
		0510
		0710 (710)
		0810 (711)
		Powder Coated

Lever Handle 1021

Catalogue No. 6 published by the S. A. Loevy bronzeware factory in the 1930s includes a variety of door fittings by Rachlis, Grenander, Behrens, Wagenfeld and Paul in which a round shank is combined with a flat grip section.



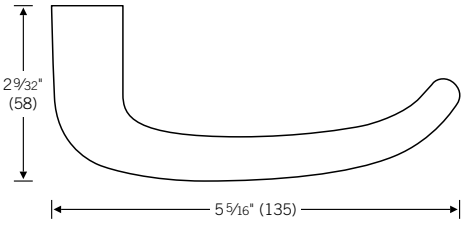


	Premium	Elements	Transitions
Materials and Finishes	Stainless Steel	Aluminum	
	6204 (630)	0105 (628)	
	6205 (629)	0205	
		0410	
		0510	
		0710 (710)	
		0810 (711)	
		Powder Coated	

Lever Handle 1023

In the 1950s, the Swiss architect, sculptor and designer Max Bill got together with Ernst Moeckel to fashion a door handle that made design history as the "Ulm handle". From this, Johannes Potente created the 1023 model, which has been an alternative to common U-shaped models ever since.



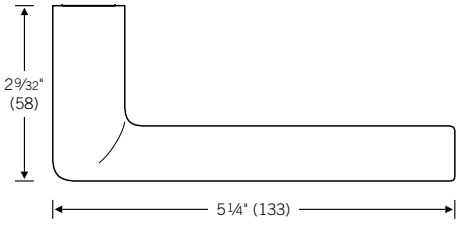


	Premium		Elements	Transitions
Materials and Finishes	Stainless Steel	Bronze	Aluminum	
	6204 (630)	7305 (611)	0105 (628)	
	6205 (629)	7615 (615)	0205	
		7625 (613)	0410	
			0510	
			0710 (710)	
			0810 (711)	
			Powder Coated	

Lever Handle 1025

The design parameters of the FSB 1025 are plain to see. A straight grip is joined to the pivotal point on the shank. The handle has a droplet-shaped cross-section. With its no-frills looks, this is a design that offers up its services humbly. The FSB 1025 is brought to life by the way it seems to capture the light along its edges.





66 6610, refer to Pulls



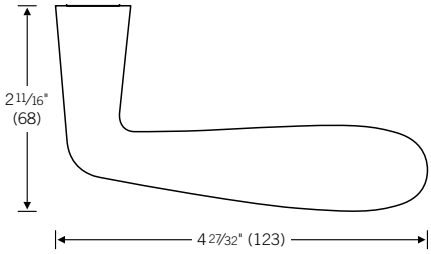
Design: Hartmut Weise

	Premium	Elements	Transitions
Materials and Finishes	Stainless Steel	Aluminum	
	6204 (630)	0105 (628)	
	6205 (629)	0205	
		0410	
		0510	
		0710 (710)	
		0810 (711)	
		Powder Coated	

Lever Handle 1027

The FSB 1027 model is a stock item in the trade. It is rather disparagingly referred to as the "shoe horn". The underlying design is from Professor Max Burchartz. The handle lies extremely snug in your hand and unobtrusiveness is its watchword. The FSB version of the "shoe horn" is by Johannes Potente.



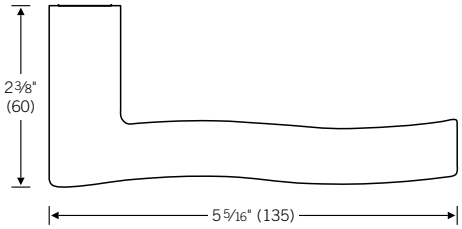


	Premium	Elements	Transitions
Materials and Finishes	Stainless Steel	Aluminum	
	6204 (630)	0105 (628)	
	6205 (629)	0205	
		0410	
		0510	
		0710 (710)	
		0810 (711)	
		Powder Coated	

Lever Handle 1028

The FSB 1028 is a variation on the parameters used in the FSB 1025, without neglecting the ergonomic qualities. This is a design that both pleases the eye and is pleasant to touch.
The undulating handle looks great and it nestles into your hand.





66 6611, refer to Pulls



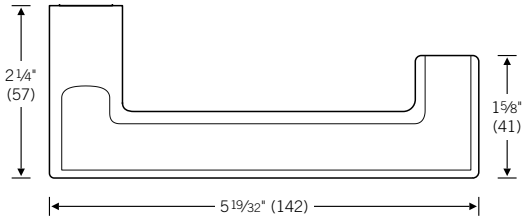
Design: Hartmut Weise

	Premium	Elements	Transitions
Materials and Finishes	Stainless Steel	Aluminum	
	6204 (630)	0105 (628)	
	6205 (629)	0205	
		0410	
		0510	
		0710 (710)	
		0810 (711)	
		Powder Coated	

Lever Handle 1031

It is not only the return that makes this version of door handle 1035 by Heike Falkenberg different from the original model. Model 1031 also features an inner steel core, creating a larger cross section and a greater grip area.





66 6540, refer to Pulls



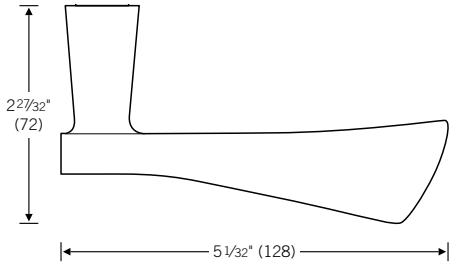
Design: Heike Falkenberg

	Premium	Elements	Transitions
Materials and Finishes	Stainless Steel 6204 (630) 6205 (629)	Aluminum 0105 (628) 0205 0410 0510 0710 (710) 0810 (711) Powder Coated	

Lever Handle 1034

The FSB 1034 handle was Johannes Potente's first major design. He produced it in 1952. Once the copyright lapsed, it was imitated by the million throughout the world. It even had to suffer being remodelled in grey plastic in the days before plastic gained some color.



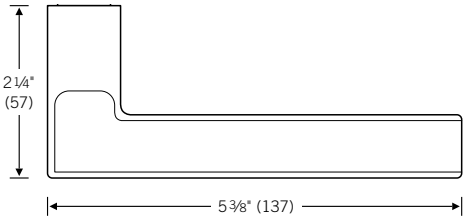


	Premium	Elements	Transitions
Materials and Finishes		Aluminum 0105 (628) 0205 0410 0510 0710 (710) 0810 (711) Powder Coated	

Lever Handle 1035

In the autumn of 1996, Düsseldorf-based interior designer Heike Falkenberg asked FSB to recreate an old handle design for a renovation job. Using the sketch she submitted, FSB's developers milled a prototype from an FSB 1076 handle.
This looked so good that we decided to market our gripping idea.





66 6540, refer to Pulls



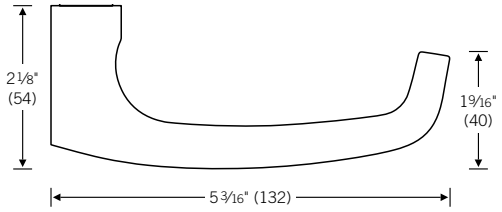
Design: Heike Falkenberg

	Premium	Elements	Transitions	
Materials and Finishes	Stainless Steel	Aluminum	Brass	
	6204 (630)	0105 (628)	Plated Brass	Natural Brass
	6205 (629)	0205	014 (618)	003 (605)
		0410	015 (619)	004 (606)
		0510	026 (625)	10B (607)
		0710 (710)	03P (605)	
		0810 (711)		
		Powder Coated		

Lever Handle 1045

FSB 1045 is based on FSB model 1015, which was conceived in the 1930s by a company called wehag.
Given the unceasing use of the FSB 1015 model in commercial buildings, we have added a return variant of this design.



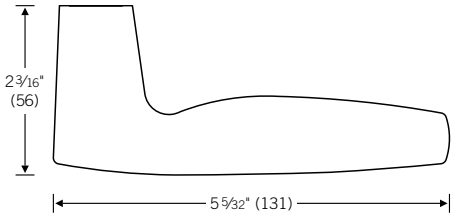


	Premium		Elements	Transitions
Materials and Finishes	Stainless Steel	Bronze	Aluminum	
	6204 (630)	7305 (611)	0105 (628)	
	6205 (629)	7615 (615)	0205	
		7625 (613)	0410	
			0510	
			0710 (710)	
			0810 (711)	
			Powder Coated	

Lever Handle 1051

The FSB 1051 handle has come to epitomise FSB. The "Schneider Handle" became Johannes Potente's supreme creation and a market leader in the 1960s. It is typified by its harmonised parts carefully shaped to the hand. FSB 1051 is one of four models designed by Johannes Potente which were added to MoMA's permanent collection in the summer of 1998.



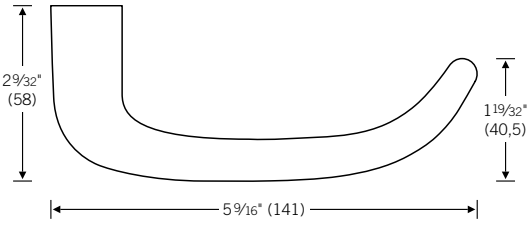


	Premium	Elements	Transitions
Materials and Finishes		Aluminum 0105 (628) 0205 0410 0510 0710 (710) 0810 (711) Powder Coated	

Lever Handle 1053

In the 1950s, Swiss architect, sculptor and designer Max Bill got together with Ernst Moeckel to fashion a door handle for the new Ulm Design College building that drew on the handles common on railway carriage doors in Switzerland and has made design history as the "Ulm handle". 1053 is a slightly reworked version of the 1023.



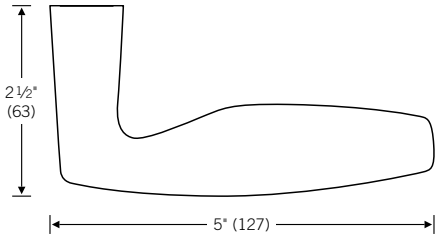


	Premium		Elements	Transitions
Materials and Finishes	Stainless Steel	Bronze	Aluminum	
	6204 (630)	7305 (611)	0105 (628)	
	6205 (629)	7615 (615)	0205	
		7625 (613)	0410	
			0510	
			0710 (710)	
			0810 (711)	
			Powder Coated	

Lever Handle 1057

Model FSB 1057 is the work of Munich-based designer Jan Roth. Unimpressed by the handles then on sale he designed a handle of his own for his doors. After the first casting in aluminium, he took the polished parts home with him and fitted them to his doors, which is where they can still be found.





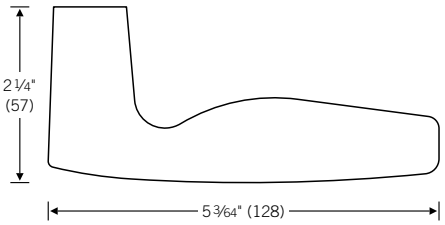
Design: Jan Roth

	Premium		Elements	Transitions
Materials and Finishes	Stainless Steel	Bronze	Aluminum	
	6204 (630)	7305 (611)	0105 (628)	
	6205 (629)	7615 (615)	0205	
		7625 (613)	0410	
			0510	
			0710 (710)	
			0810 (711)	
			Powder Coated	

Lever Handle 1058

FSB 1058 was Johannes Potente's favorite model. It is not known why, only two years after designing FSB 1051, his supreme creation, he followed up with this redesign.
FSB 1058 is one of four models designed by Johannes Potente which have been added to MoMA's permanent collection.





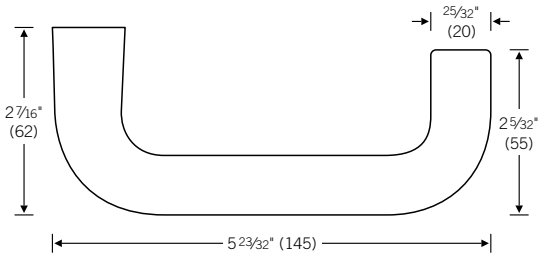
Design: Johannes Potente

	Premium		Elements	Transitions	
Materials and Finishes	Stainless Steel	Bronze	Aluminum	Brass	
	6204 (630)	7305 (611)	0105 (628)	Plated Brass	Natural Brass
	6205 (629)	7615 (615)	0205	014 (618)	003 (605)
		7625 (613)	0410	015 (619)	004 (606)
			0510	026 (625)	10B (607)
			0710 (710)	03P (605)	
			0810 (711)		
			Powder Coated		

Lever Handle 1070

This is a handle design that became "really famous" during the period of bright colors in the 1970s. For many architects who were schoolchildren at the time this handle epitomizes the architecture of the age.





66 6602, refer to Pulls

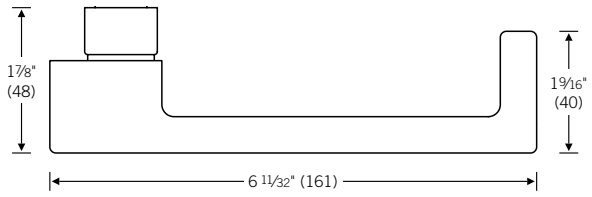


	Premium	Elements	Transitions
Materials and Finishes	Stainless Steel 6204 (630) 6205 (629)	Aluminum 0105 (628) 0205 0410 0510 0710 (710) 0810 (711) Powder Coated	

Lever Handle 1074

Hadi Teherani delivers the function of a cranked lever handle, while averting the danger of a users thumb hitting the frame, by shifting the handle's point of rotation leftwards.
The designer's model 1074 sports a similarly radical return to the door: he simply takes a third of the grip section and attaches it to same at right angles.





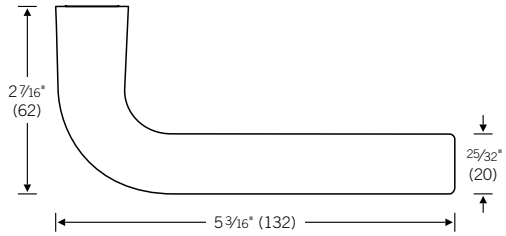
Design: Hadi Teherani

	Premium	Elements	Transitions
Materials and Finishes	Stainless Steel	Aluminum	
	6204 (630)	0105 (628)	
	6205 (629)	0205	
		0410	
		0510	
		0710 (710)	
		0810 (711)	
		Powder Coated	

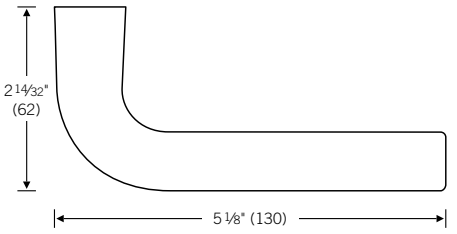
Lever Handle 1075

In the 1920s Mr. Mallet-Stevens mitred two sections of cylindrical tubing together: FSB 1076. Mr. Wittgenstein bent a cylindrical brass tube: FSB 1147. Messrs Gropius and Meyer married an angled piece of square section material to a handle bushing: FSB 1102. However, we still don't know today who it was that picked up a saw and "liberated" FSB 1147 from its hemispherical tip.





Measurements:
Premium and Elements



Measurements:
Transitions

66 6602, refer to Pulls

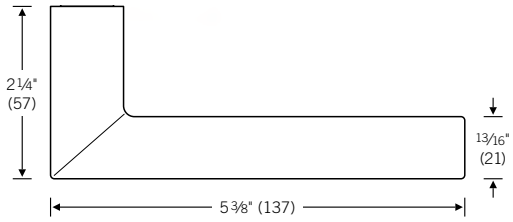


	Premium	Elements	Transitions	
Materials and Finishes	Stainless Steel	Aluminum	Brass	
	6204 (630)	0105 (628)	Plated Brass	Natural Brass
	6205 (629)	0205	014 (618)	003 (605)
		0410	015 (619)	004 (606)
		0510	026 (625)	10B (607)
		0710 (710)	03P (605)	
		0810 (711)		
		Powder Coated		

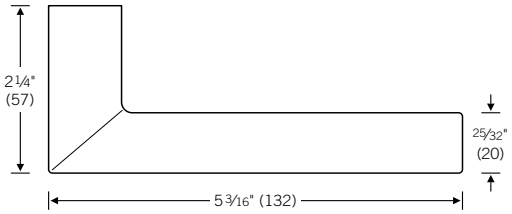
Lever Handle 1076

The architect Robert Mallet-Stevens (1886 – 1945) was the one who hit upon the idea of cutting a round tube in two and mitring the ends together again at a right angle. His creation is today known as the "Frankfurt Model". The handle was rediscovered when the Architecture Museum was rebuilt and proceeded to take the market by storm.





Measurements:
Premium and Elements



Measurements:
Transitions

66 6669, refer to Pulls

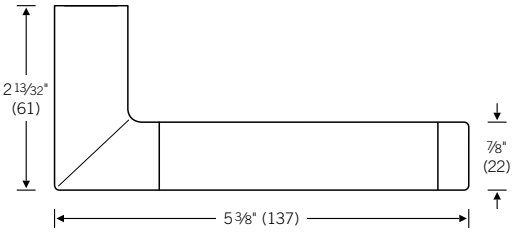


Materials and Finishes	Premium		Elements	Transitions	
	Stainless Steel	Bronze	Aluminum	Brass	
	6204 (630)	7305 (611)	0105 (628)	Plated Brass	Natural Brass
	6205 (629)	7615 (615)	0205	014 (618)	003 (605)
		7625 (613)	0410	015 (619)	004 (606)
			0510	026 (625)	10B (607)
			0710 (710)	03P (605)	
			0810 (711)		
			Powder Coated		

Lever Handle 1077

The idea behind the FSB 1077 lever handle series was to give architects and end-users an opportunity to have a say in the choice of grip section for their door handles. The FSB range provides for the following combinations: angled section and roses silver anodized aluminum, grip stainless steel.





66 6541, refer to Pulls



Premium

Materials and Finishes

Elements — Aluminum with Stainless Steel Grip

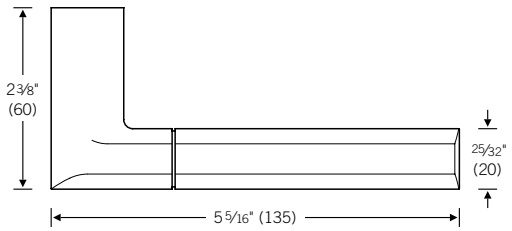
Transitions

- 0105 (628)
- 0205
- 0410
- 0510
- 0710 (710)
- 0810 (711)

Lever Handle 1078

Christoph Ingenhoven was inspired by the quintessential "classic", FSB 1076, which he reinterpreted both in the mitring and the grip. The particular attraction of the FSB 1078 is the transition from the round shank to the flat surfaces on the grip. The associated return version complements the open model with a closed design.



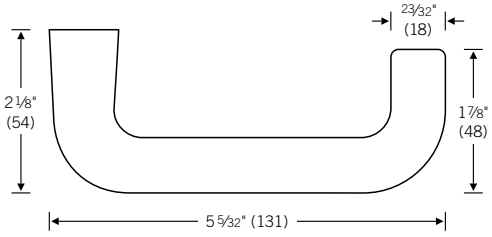


Design: Christoph Ingenhoven

	Premium	Elements	Transitions
Materials and Finishes	Stainless Steel	Aluminum	
	6204 (630)	0105 (628)	
	6205 (629)	0205	
		0410	
		0510	
		0710 (710)	
		0810 (711)	
		Powder Coated	

Most probably it was some blacksmith way back when hammering steel tubing into the shape of a handle on their anvil. The phrase "stable door handle" has long been common parlance – the end bent back towards the door was presumably intended to prevent bridles from snagging.





66 6602, refer to Pulls

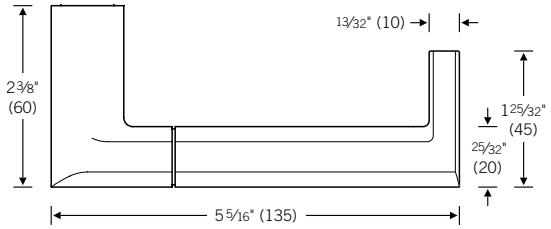


	Premium	Elements	Transitions
Materials and Finishes	Stainless Steel 6204 (630) 6205 (629)	Aluminum 0105 (628) 0205 0410 0510 0710 (710) 0810 (711) Powder Coated	

Lever Handle 1088

Door handle model 1078 by Christoph Ingenhoven is now complemented by return version 1088, which features a closed design.





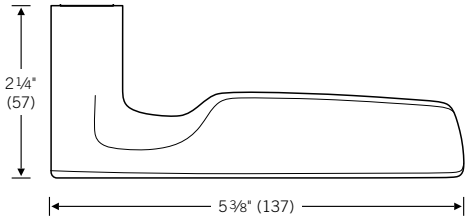
Design: Christoph Ingenhoven

	Premium	Elements	Transitions
Materials and Finishes	Stainless Steel 6204 (630) 6205 (629)	Aluminum 0105 (628) 0205 0410 0510 0710 (710) 0810 (711) Powder Coated	

Lever Handle 1093

Helmut Jahn and Yorgo Lykouria approached handle design without any preconceptions whatsoever. They freed their minds from the constraints of industrial production processes and sought a shape that combines geometrical elements with ergonomic needs. The result is a genuine innovation for a hand-held shape.





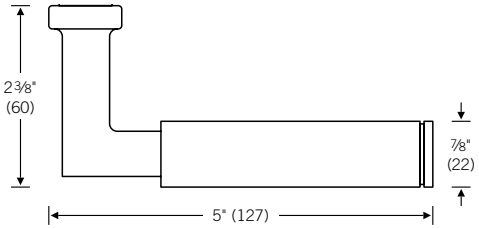
Design: Jahn/Lykouria

	Premium	Elements	Transitions
Materials and Finishes	Stainless Steel	Aluminum	
	6204 (630)	0105 (628)	
	6205 (629)	0205	
		0410	
		0510	
		0710 (710)	
		0810 (711)	
		Powder Coated	

Lever Handle 1102

FSB 1102 is rooted in Alessandro Mendini's redesign of the celebrated Gropius handle by choosing a different material and adding a groove during one of our design workshops.
Owing to the popularity of this design, we now supply FSB 1102 in three materials. For heavily used doors we would recommend using the rugged stainless steel version.





66 6546, refer to Pulls



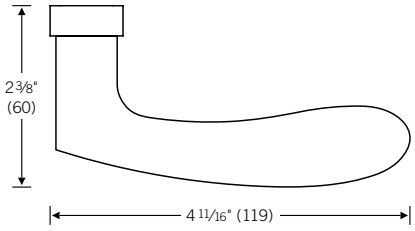
Design: Alessandro Mendini

	Premium		Elements	Transitions
Materials and Finishes	Stainless Steel	Bronze	Aluminum	
	6204 (630)	7615 (615)	0105 (628)	
	6205 (629)	7625 (613)		

Lever Handle 1106

The FSB 1106 is characterized by its traditional style which is based on its little brother the 1135. Reworking the form and size of the lever handle gave it the look and feel wanted for rugged applications.





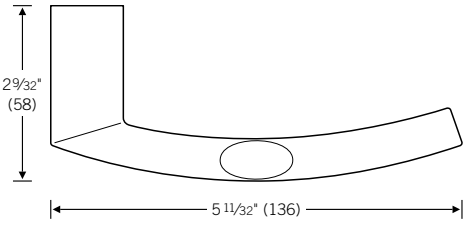
Design: Christoph Mäckler

	Premium		Elements	Transitions
Materials and Finishes	Stainless Steel	Bronze	Aluminum	
	6204 (630)	7305 (611)	0105 (628)	
	6205 (629)	7615 (615)	0205	
		7625 (613)	0410	
			0510	
			0710 (710)	
			0810 (711)	
			Powder Coated	

Lever Handle 1107

FSB 1107 is related to FSB 1108. FSB's in-house designer Hartmut Weise has imbued his "Brakel Lightweight" with the curve of a door in motion. Matching the door handles for framed doors, it was not a long wait for the return version of the FSB 1107 model.





66 6537, refer to Pulls



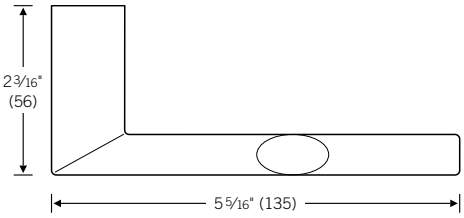
Design: Hartmut Weise

	Premium	Elements	Transitions
Materials and Finishes	Stainless Steel 6204 (630) 6205 (629)	Aluminum 0105 (628) 0205 0410 0510 0710 (710) 0810 (711) Powder Coated	

Lever Handle 1108

FSB's in-house designer Hartmut Weise was wondering what gives the "Frankfurt Model" and "Wittgenstein's Handle" their particular appeal. He jotted down the words "unpretentious presence".
He then produced a plain design that was at the very least on a par with them. The FSB 1108, a round tube combined with a mitred, oval section grip. The "Brakel Model".





66 6538, refer to Pulls



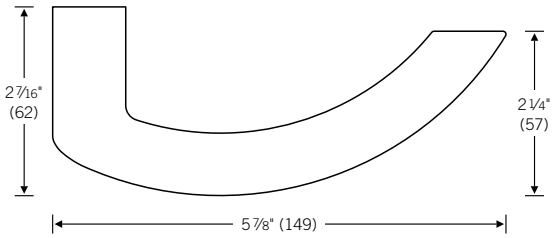
Design: Hartmut Weise

	Premium	Elements	Transitions
Materials and Finishes	Stainless Steel	Aluminum	
	6204 (630)	0105 (628)	
	6205 (629)	0205	
		0410	
		0510	
		0710 (710)	
		0810 (711)	
		Powder Coated	

Lever Handle 1119

FSB 1119 incorporates insights gained by FSB in cooperation with the Fraunhofer Institute. While when producing the FSB 7655 utmost importance was given to the rigorous implementation of ergonomic parameters, for the FSB 1119 formal aesthetic considerations took precedence.





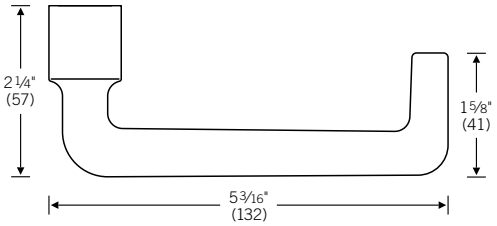
Design: Hartmut Weise

	Premium		Elements	Transitions
Materials and Finishes	Stainless Steel	Bronze	Aluminum	
	6204 (630)	7305 (611)	0105 (628)	
	6205 (629)	7615 (615)	0205	
		7625 (613)	0410	
			0510	
			0710 (710)	
			0810 (711)	
			Powder Coated	

Lever Handle 1134

David Chipperfield's design was influenced by the pioneers of the Modern movement. The simple formal concept was devised to work across all functional variants and to express an architectural philosophy which addresses domestic as well as public spaces.





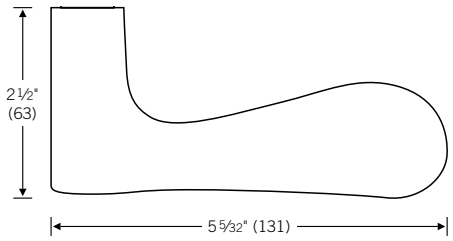
Design: David Chipperfield

	Premium		Elements	Transitions
Materials and Finishes	Stainless Steel	Bronze	Aluminum	
	6204 (630)	7305 (611)	0105 (628)	
	6205 (629)	7615 (615)	0205	
		7625 (613)	0410	
			0510	
			0710 (710)	
			0810 (711)	
			Powder Coated	

Lever Handle 1144

The FSB 1144 door handle is as pleasing to the eye as to the hand. Designer Jasper Morrison lets our eyes know that this door handle is a manual tool. Your eyes relax and your hand takes over. Your thumb finds its place, your forefinger finds its hollow and your hand finds plenty to get hold of. This is precisely what the "Four-Point Guide to Good Grip" drawn up by FSB and Otl Aicher requires.





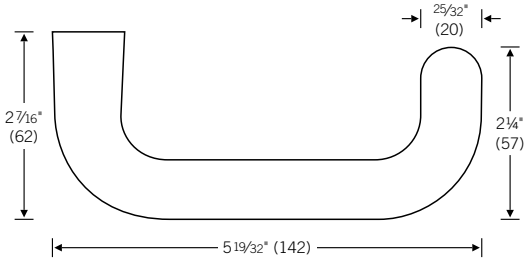
Design: Jasper Morrison

	Premium	Elements	Transitions
Materials and Finishes	Stainless Steel	Aluminum	
	6204 (630)	0105 (628)	
	6205 (629)	0205	
		0410	
		0510	
		0710 (710)	
		0810 (711)	
		Powder Coated	

Lever Handle 1146

In the early 1990s we gave the plain round rod of the stable-door handle a going over. The shank was conically widened and a hemispherical tip was added to the bent end. Two small but important special features that have given the FSB 1146 model a character all of its own.





66 6662, refer to Pulls

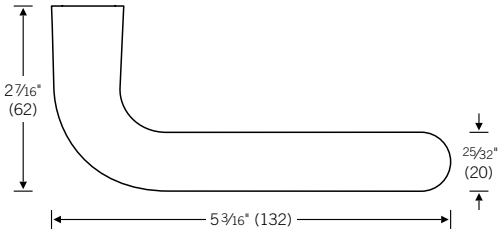


	Premium	Elements	Transitions
Materials and Finishes	Stainless Steel	Aluminum	
	6204 (630)	0105 (628)	
	6205 (629)	0205	
		0410	
		0510	
		0710 (710)	
		0810 (711)	
		Powder Coated	

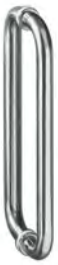
Lever Handle 1147

The FSB logo echoes a lever handle designed by the Austrian philosopher Ludwig Wittgenstein in the mid-1920s in Vienna. This is the original upon which all similar door handle shapes are based. By adding a conical shank and spherical tip we aimed to set ourselves apart from the many other variants of this handle on the market.





66 6602, refer to Pulls

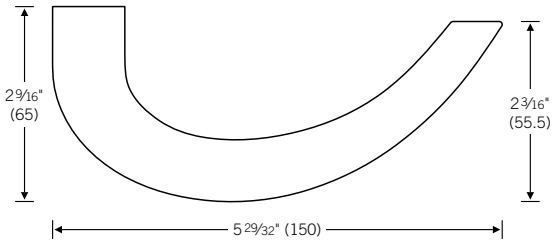


	Premium	Elements	Transitions
Materials and Finishes	Stainless Steel 6204 (630) 6205 (629)	Aluminum 0105 (628) 0205 0410 0510 0710 (710) 0810 (711) Powder Coated	

Lever Handle 1160

Works design FSB 1160 is based on the "dynamic golden growth spiral". It has a round cross-section, with the lever handle also tapering from the shank to the end of the handle following the rule of the golden ratio.



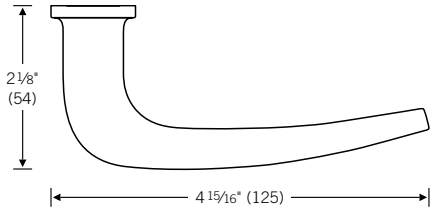


	Premium	Elements	Transitions
Materials and Finishes	Stainless Steel	Aluminum	
	6204 (630)	0105 (628)	
	6205 (629)	0205	
		0410	
		0510	
		0710 (710)	
		0810 (711)	
		Powder Coated	

Lever Handle 1163

Berlin-based architect Hans Kollhoff devised a handle design for his projects that consciously accommodates design elements from the 1930s. His plain door handles, window handles and window fasteners were immediately adopted as authentic interpretations by the market.





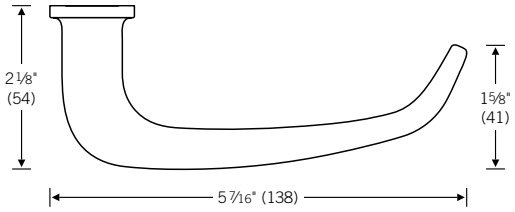
Design: Hans Kollhoff

	Premium		Elements	Transitions
Materials and Finishes	Stainless Steel	Bronze	Aluminum	
	6204 (630)	7305 (611)	0105 (628)	
	6205 (629)	7615 (615)	0205	
		7625 (613)	0410	
			0510	
			0710 (710)	
			0810 (711)	
			Powder Coated	

Lever Handle 1164

Door handle model 1164 is the return version of design 1163, which was conceived by Hans Kolloff. This return model is particularly charming when made from bronze with an artificial patina to give it an antiqued finish.





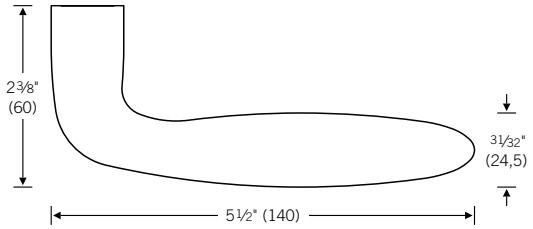
Design: Hans Kollhoff

	Premium		Elements	Transitions
Materials and Finishes	Stainless Steel	Bronze	Aluminum	
	6204 (630)	7305 (611)	0105 (628)	
	6205 (629)	7615 (615)	0205	
		7625 (613)	0410	
			0510	
			0710 (710)	
			0810 (711)	
			Powder Coated	

Lever Handle 1176

The design of FSB 1176 is based on a classic model from the FSB range. The shank and tip of this handle were originally made of rolled steel, then later of cast aluminium. The grip itself was a chunky affair made of black plastic. FSB's toolmakers succeeded in fashioning this familiar design out of stainless steel tubing.



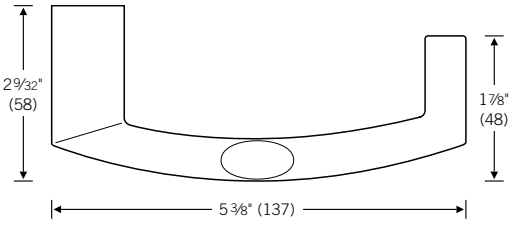


	Premium	Elements	Transitions
Materials and Finishes	Stainless Steel	Aluminum	
	6204 (630)	0105 (628)	
	6205 (629)	0205	
		0410	
		0510	
		0710 (710)	
		0810 (711)	
		Powder Coated	

Lever Handle 1177

Model 1177 is the return version of model 1107, which was developed by in-house FSB designer Hartmut Weise. The new model was created in very little time to complement the lever handles on the frame door.





66 6537, refer to Pulls



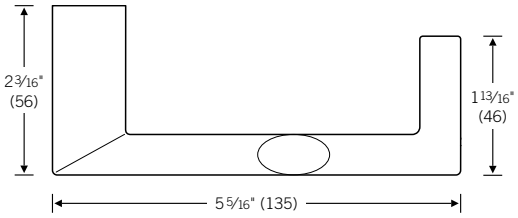
Design: Hartmut Weise

	Premium	Elements	Transitions
Materials and Finishes	Stainless Steel	Aluminum	
	6204 (630)	0105 (628)	
	6205 (629)	0205	
		0410	
		0510	
		0710 (710)	
		0810 (711)	
		Powder Coated	

Lever Handle 1178

The FSB 1178 model is the return version of the "Brakel Model" 1108 by Hartmut Weise.
Originally developed as a lever handle for framed doors, it is a distinctive variant of the FSB 1108 model with its round rose.





66 6538, refer to Pulls



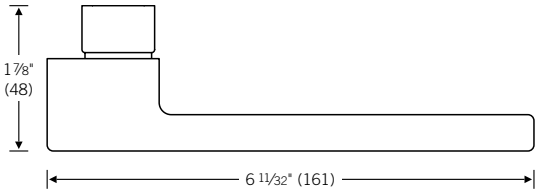
Design: Hartmut Weise

	Premium	Elements	Transitions
Materials and Finishes	Stainless Steel	Aluminum	
	6204 (630)	0105 (628)	
	6205 (629)	0205	
		0410	
		0510	
		0710 (710)	
		0810 (711)	
		Powder Coated	

Lever Handle 1183

For framed doors we are familiar with offset handle shapes on the closing side of the door, and standard shapes on the other side, the so-called "Wittgenstein solution".
Hadi Teherani solved the function of the offset handle to avert the risk of skinning your thumb on the door frame, by simply shifting the handle's axis of rotation to the left.





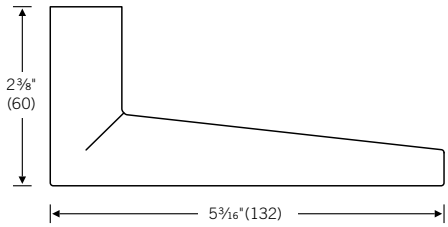
Design: Hardi Teherani

	Premium	Elements	Transitions
Materials and Finishes	Stainless Steel	Aluminum	
	6204 (630)	0105 (628)	
	6205 (629)	0205	
		0410	
		0510	
		0710 (710)	
		0810 (711)	
		Powder Coated	

Lever Handle 1185

FSB 1185 unites different requirements in an overall concept that Andreas Heupel has appropriately titled "Folded":
How a sheet can be folded several times, then follows the flat appearance of tasks arising from structural requirements or standards. The pusher shows a simple outward
Clarity and surprised when accessing the ergonomic pleasant softness of the semicircle.





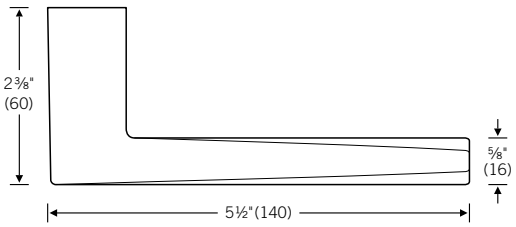
Design: Andreas Heupel

	Premium	Elements	Transitions
Materials and Finishes		Aluminum 0105 (628) 0205 0410 0510 0710 (710) 0810 (711) Powder Coated	

Lever Handle 1241

A door handle designed by the RDAI agency using a rectangular section at the point of fixation which is morphed into an elliptical section as it forms the lever. A dialogue between a rational rectilinear form and an organic ergonomy.





Design: RDAI

Premium

Materials and Finishes

Elements

Aluminum

- 0105 (628)
- 0205
- 0410
- 0510
- 0710 (710)
- 0810 (711)
- Powder Coated

Transitions

Brass

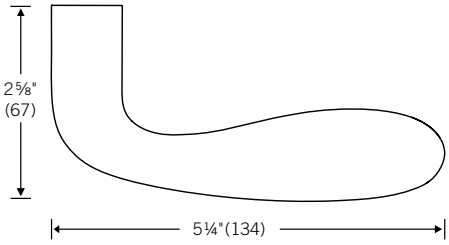
Plated Brass
- 014 (618)
- 015 (619)
- 026 (625)
- 03P (605)

Natural Brass
- 003 (605)
- 004 (606)
- 10B (607)

Lever Handle 1250

A brand new lever from in-house designer Hartmut Weise comes in answer to the request to update the traditional wave designs of old. Mr. Weise has created a new shape that comfortably spans the most contemporary environment to a very traditional setting.





Premium

Materials and Finishes

Elements

Transitions

Brass

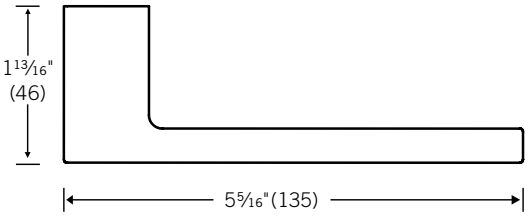
Plated Brass
- 014 (618)
- 015 (619)
- 026 (625)
- 03P (605)

Natural Brass
- 003 (605)
- 004 (606)
- 10B (607)

Lever Handle 1251

Our new "Square" design brings together very simple lines to create a look that is bold yet not overstated. In line with FSB hand culture in-house designer Hartmut Weise has created yet again another FSB original.





Premium

Materials and Finishes

- Stainless Steel
- 6204 (630)
- 6205 (629)

Elements

Transitions

- Brass

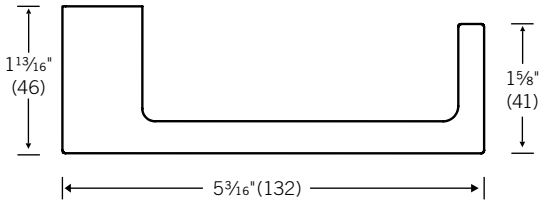
Plated Brass
- 014 (618)
- 015 (619)
- 026 (625)
- 03P (605)

Natural Brass
- 003 (605)
- 004 (606)
- 10B (607)

Lever Handle 1252

Without compromising our design intent the 1252 adds a "return" to the 1251 in order to satisfy fire code requirements where necessary.





Premium

Materials and Finishes

Elements

Transitions

Brass

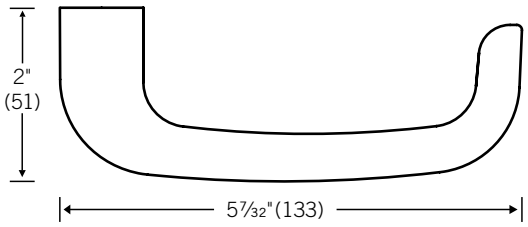
Plated Brass
- 014 (618)
- 015 (619)
- 026 (625)
- 03P (605)

Natural Brass
- 003 (605)
- 004 (606)
- 10B (607)

Lever Handle 1253

Designers the world over have struggled to bring lever designs to the market that satisfy both our aesthetic sensibilities and local fire codes. In-house designer Hartmut Weise masterfully blends flat surface area with contours that are graceful and majestic.





Premium

Materials and Finishes

Elements

Transitions

Brass

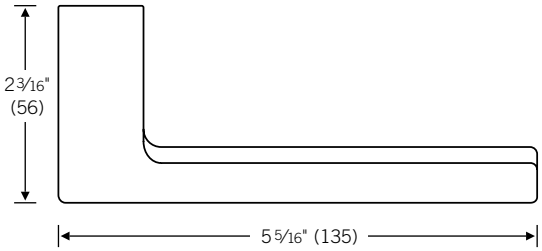
Plated Brass
- 014 (618)
- 015 (619)
- 026 (625)
- 03P (605)

Natural Brass
- 003 (605)
- 004 (606)
- 10B (607)

Lever Handle 1257

The "V-Line" designed by in-house designer Hartmut Weise features a concave front which provides both visual and functional benefits. Our eyes find pleasure in the play of light and shadows created and the decorative effect provides ergonomic guidance for the thumb keeping with the Four-Point Guide to Good Grip originated by FSB.





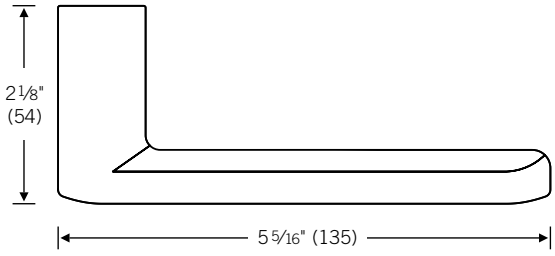
Design: Hartmut Weise

	Premium	Elements	Transitions
Materials and Finishes		Aluminum 0105 (628) 0205 0410 0510 0710 (710) 0810 (711) Powder Coated	

Lever Handle 1259

The "C-Line" handle designed by in-house designer Hartmut Weise utilizes the same principles as the 1257 but features a rounded profile. Our eyes find pleasure in the play of light and shadows created and the decorative effect provides ergonomic guidance for the thumb keeping with the Four-Point Guide to Good Grip originated by FSB.





Design: Hartmut Weise

	Premium	Elements	Transitions
Materials and Finishes		Aluminum 0105 (628) 0205 0410 0510 0710 (710) 0810 (711) Powder Coated	



Standard Mortise Lock
SML & SMT Series

Quality

The FSB Standard Mortise Lock (SML/SMT) is a Grade 1 mortise lock manufactured in the United States to meet the stringent demands of high-traffic commercial, institutional, and governmental applications. Built using a heavy-gauge steel case, the lock features a fast field reversible latchbolt and a stainless steel deadbolt. The lock is backed by a 10 year limited warranty.

Design Advantage

FSB has the widest selection of designer levers and trim in the industry. With more than 100 designer levers and trim that can also be suited with our narrow and European mortise locks, tubular locks, sliding door locks, sliding door hardware, and door pulls FSB will complement your design vision.

Specifying Mortise Locksets

(SML) Available with Premium Series and Elements Series Trim
(SMT) Available with Transitions Series Trim

Lock Type

SML

Insert your choice of Lock Type.

SML
Premium Elements

Lock Function

E

Insert your choice of function using one of the letter codes below.

A Store Door
B Dormitory
C Passage
D Hotel
E Privacy
F Public Restroom
G Classroom
H Entrance
I Office
J Storeroom
K Apartment
M Single Key Deadlock
N Key × Key Deadlock
P Key × Thumbturn Deadlock
R Thumbturn Deadlock
S Thumbturn Deadlock with Emergency Release (Privacy)
T Patio
V Institutional
Y Active Double Dummy
YS Active Double Strike
Z Active Single Dummy
ZS Active Single Strike

Electrified Functions

JEU Storeroom Fail Secure
JEL Storeroom Fail Safe
VEU Institutional Fail Secure
VEL Institutional Fail Safe

Lever Design

1147

Insert your choice of lever design using one of the four digit codes.

Premium/Elements

1001*	**1078**
1002*	**1080**
1003	**1088**
1004	**1093**
1005	**1102**
1015	**1106**
1016	**1107**
1020*	**1108**
1021	**1119**
1023	**1134**
1025	**1144**
1027	**1146**
1028	**1147**
1031	**1160**
1034*	**1163**
1035	**1164**
1045	**1176**
1051*	**1177**
1053	**1178**
1057	**1183**
1058	**1185***
1070	**1241***
1074	**1251^**
1075	**1257***
1076	**1259***
1077*	

^ Stainless Only
* Elements Only

Trim Set

RA

Insert your choice of rose or escutcheon using one of the letter codes.

Premium/Elements

RA Rose 2 3/16" (55 mm)
RD Rose 2 9/16" (65 mm)
RF Narrow Rose
RJ Flush Rose (55 mm)
RM Square Rose (55 mm)
ED Long Rectangular

Trim sets are dependent on lock function. Not all trim sets are available for all functions. More details are provided on the lock function pages.

Thumbturn and Indicator

SN*

Insert your choice of thumbturn and indicator if necessary using the codes provided.

Premium/Elements


S Standard thumbturn available with roses and escutcheons


D ADA thumbturn available with RA and RD roses only


C Crescent thumbturn available with RF Trim only

Premium, Elements and Transitions
Emergency Releases


N


I

* Thumbturn and/or Indicator choices are only necessary with the B, D, E, H, K, P, R, S, and T lock functions.

SMT

Transitions

Transitions

1035	**1250**
1058	**1251**
1075	**1252**
1076	**1253**
1241	

Transitions

RA Rose 2 3/16" (55 mm)
RD Rose 2 9/16" (65 mm)
RM Square Rose 2 3/16" (55 mm)
RS Square Rose 2 9/16" (65 mm) (Covers 2 1/8" bore)
ED Long Rectangular

Transitions


S Standard thumbturn available with all roses and escutcheons


D ADA thumbturn available with roses only

Example for Specifying

SML - E - 1147 - RA - SN - 6204 - 234 - M1 - RH - 134

Material and Finish

6204

Insert your choice of material and finish using one of the codes below.

Premium
Stainless Steel

- **6204** Satin (630)
- **6205** Polished (629)

Bronze

- **7305** Polished, Waxed (611)
- **7615** Aged, Waxed (615)
- **7625** Dark Oxidized, Waxed (613)

Elements
Aluminum Anodized

- **0105** Natural Color (628)
- **0205** Champagne Silver Color
- **0410** Bronze Color
- **0510** Medium Bronze Color
- **0710** Dark Bronze Color (710)
- **0810** Black Color (711)

Aluminum Powder Coated

- **8120** Black (671)
- **8220** White (714)

Transitions
Plated

- **014** Polished Nickel (618)
- **015** Satin Nickel (619)
- **026** Polished Chrome (625)
- **03P** Polished Brass PVD (605)

Natural

- **003** Polished Brass (605)
- **004** Satin Brass (606)
- **10B** Satin Brass Dark Oxidized (607)

Backset

234

Insert your choice of backset using one of the three digit codes below

Standard

234 2¾" Backset

Special Order

212 2½" Backset
334 3¾" Backset
500 5" Backset
600 6" Backset

Strike

M1

Insert your choice of strike using one of the two letter codes below

Standard

M1

Special Order

M2
M3
M4
M5
M6
M7
M8
M9
M10
M11
M12
M13

Handing

RH

Insert your choice of hand using one of the two letter codes below

RH Right Hand
RR Right Hand Reverse

LH Left Hand
LR Left Hand Reverse

Door Thickness

134

Insert your choice of door thickness using one of the three digit codes.

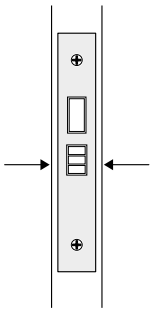
Standard

134 1¾"

Special Order

138 1⅜"
200 2"
214 2¼"

All sizes over 2¼" thick please consult FSB.



Standard Mortise Locks
Series SML and SMT Functions



Series SML & SMT

Standard Mortise Lock

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

C-UL-US Listing
File No. R 16617

Backsets
2½" (64 mm)
2¾" (70 mm)
3¾" (95 mm)
5" (127 mm)
6" (152 mm)

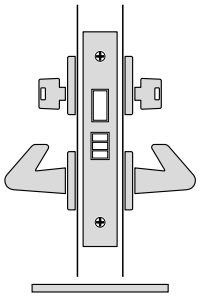
Strike
See page 110 for strike information.

Lock Body
All SML and SMT use the same lock bodies.

Function A

Store Door

ANSI Code F14

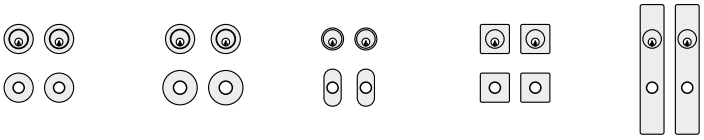


Solid Spindle

Description
Latch bolt by handle either side.
Deadbolt by key either side.
No emergency egress.

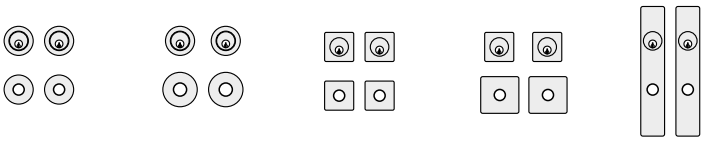
Premium and **Elements Series** Trim Sets

RA **RD** **RF** **RM** **ED**



Transitions Series Trim Sets

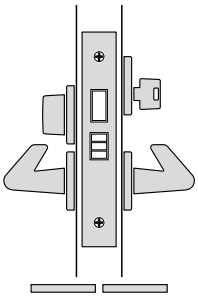
RA **RD** **RM** **RS** **ED**



Function B

Dormitory

ANSI Code F13



Split Spindle

Description
Latch bolt by handle either side. Deadbolt by key outside and thumbturn inside.
Use of inside handle retracts latch and deadbolt simultaneously, automatically unlocking outside handle.
Outside handle is rigid when deadbolt is thrown by key or thumbturn.

Premium and **Elements Series** Trim Sets

RA-S



RD-S



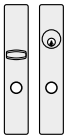
RM-S



RJ-S



ED-S



RF-C



RA-D



RD-D



Transitions Series Trim Sets

RA-S



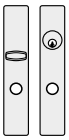
RD-S



RM-S



ED-S



RA-D



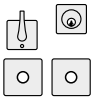
RD-D



RM-D



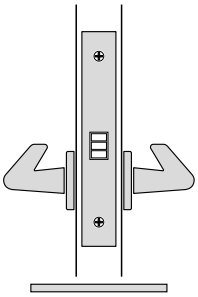
RS-D



Standard Mortise Locks
Series SML and SMT Functions

Function C
Passage

ANSI Code F01



Straight Spindle

Description
Latch bolt by handle either side.

Premium and **Elements Series** Trim Sets

RA



RD



RF



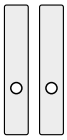
RM



RJ



ED



Transitions Series Trim Sets

RA



RD



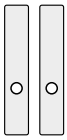
RM



RS



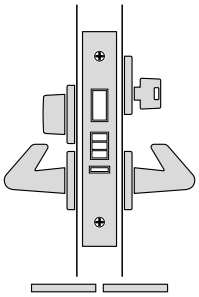
ED



Function D

Hotel

ANSI Code F15



Split Spindle

Description
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.

Premium and **Elements Series** Trim Sets

RA-S



RD-S



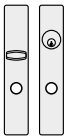
RM-S



RJ-S



ED-S



RF-C



RA-D



RD-D



Transitions Series Trim Sets

RA-S



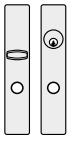
RD-S



RM-S



ED-S



RA-D



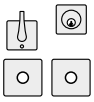
RD-D



RM-D



RS-D

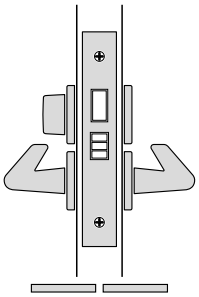


Standard Mortise Locks
Series SML and SMT Functions

Function E

Privacy

ANSI Code F19

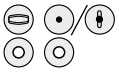


Split Spindle

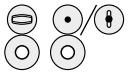
Description
Latch bolt by handle either side.
Deadbolt by thumbturn inside and emergency release outside.
Use of inside handle retracts latch and deadbolt simultaneously, automatically unlocking outside handle.
Outside handle is rigid when deadbolt is thrown by thumbturn.

Premium and **Elements Series** Trim Sets

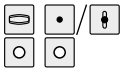
RA-SN/SI



RD-SN/SI



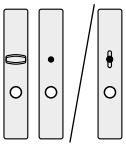
RM-SN/SI



RJ-SI



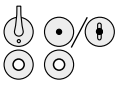
ED-SN/SI



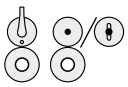
RF-CI



RA-DN/DI

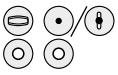


RD-DN/DI

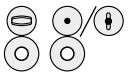


Transitions Series Trim Sets

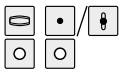
RA-SN/SI



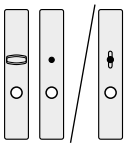
RD-SN/SI



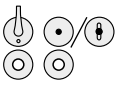
RM-SN/SI



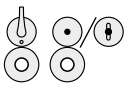
ED-SN/SI



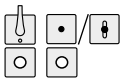
RA-DN/DI



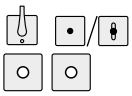
RD-DN/DI



RM-DN/DI



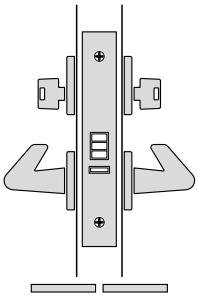
RS-DN/DI



Standard Mortise Locks
Series SML and SMT Functions

Function F
Public Restroom

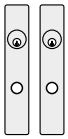
ANSI Code F09



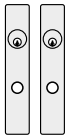
Split Spindle

Description
Latch bolt by handle either side unless outside handle is locked by master key from inside. When outside handle is locked, latch bolt by key outside and handle inside.
Auxiliary latch deadlocks latch bolt.

Premium and **Elements Series** Trim Sets

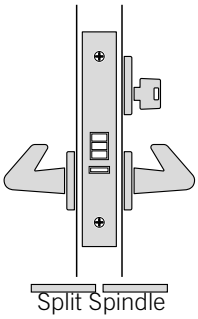
RA	RD	RF	RM	ED
				

Transitions Series Trim Sets

RA	RD	RM	RS	ED
				

Function G
Classroom

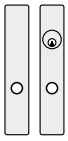
ANSI Code F05



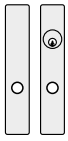
Split Spindle

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

Premium and **Elements Series** Trim Sets

RA	RD	RF	RM	ED
				

Transitions Series Trim Sets

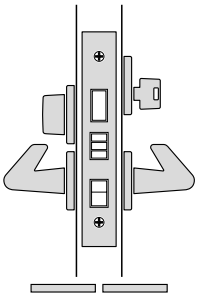
RA	RD	RM	RS	ED
				

Standard Mortise Locks
Series SML and SMT Functions

Function H

Entrance

ANSI Code F12



Split Spindle

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

Premium and **Elements Series** Trim Sets

RA-S



RD-S



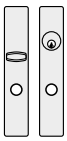
RM-S



RJ-S



ED-S



RF-C



RA-D



RD-D



Transitions Series Trim Sets

RA-S



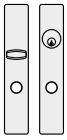
RD-S



RM-S



ED-S



RA-D



RD-D



RM-D



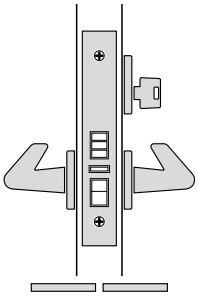
RS-D



Standard Mortise Locks
Series SML and SMT Functions

Function I
Office

ANSI Code F04



Split Spindle

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

Premium and **Elements Series** Trim Sets

RA



RD



RF



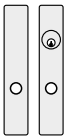
RM



RJ



ED



Transitions Series Trim Sets

RA



RD



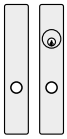
RM



RS

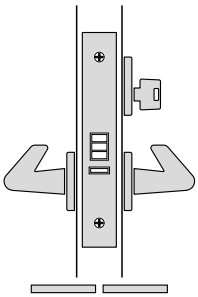


ED



Function J
Storeroom

ANSI Code F07



Split Spindle

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

Premium and **Elements Series** Trim Sets

RA



RD



RF



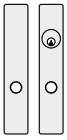
RM



RJ



ED



Transitions Series Trim Sets

RA



RD



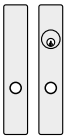
RM



RS



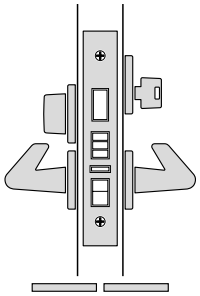
ED



Standard Mortise Locks
Series SML and SMT Functions

Function K
Apartment

ANSI Code F20



Split Spindle

Description
Latch bolt by key outside and lever either side, unless outside lever is locked by toggle-action stop. Deadbolt by key outside and turn piece inside. Turning inside lever retracts latch and dead bolt simultaneously. Outside lever remains locked until manually unlocked by toggle. Auxiliary latch dead locks latch bolt and prevents manipulation of locked toggle-action stop.

Premium and **Elements Series** Trim Sets

RA-S



RD-S



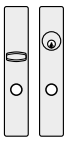
RM-S



RJ-S



ED-S



RF-C



RA-D



RD-D



Transitions Series Trim Sets

RA-S



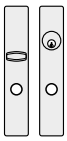
RD-S



RM-S



ED-S



RA-D



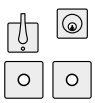
RD-D



RM-D



RS-D

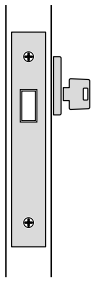


Standard Mortise Locks
Series SML and SMT Functions

Function M
Single Key Deadlock

Description
Deadbolt by key outside.
No operation inside.

ANSI Code F18



Premium and **Elements Series** Trim Sets

RA **RD** **RF** **RM** **RJ** **ED**



Transitions Series Trim Sets

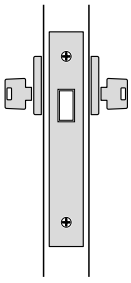
RA **RD** **RM** **RS** **ED**



Function N
Key × Key Deadlock

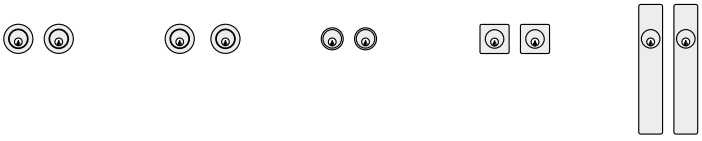
Description
Deadbolt by key either side.

ANSI Code F16



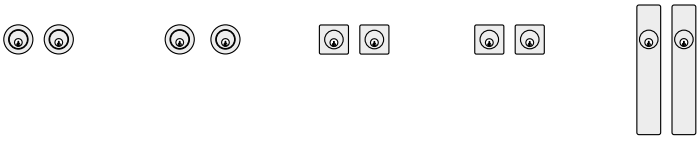
Premium and **Elements Series** Trim Sets

RA **RD** **RF** **RM** **ED**



Transitions Series Trim Sets

RA **RD** **RM** **RS** **ED**



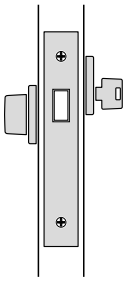
Standard Mortise Locks
Series SML and SMT Functions

Function P

Key × Thumbturn
Deadlock

Description
Deadbolt by key outside and thumbturn inside.

ANSI Code F17



Premium and **Elements Series** Trim Sets

RA-S



RD-S



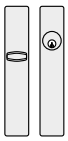
RM-S



RJ-S



ED-S



RF-C



RA-D



RD-D



Transitions Series Trim Sets

RA-S



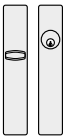
RD-S



RM-S



ED-S



RA-D



RD-D



RM-D

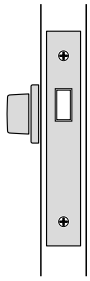


RS-D



Function R
Thumbturn Deadlock

Description
Deadbolt by thumbturn inside.
No operation outside.



Premium and **Elements Series** Trim Sets

RA-S



RD-S



RM-S



RJ-S



ED-S



RF-C



RA-D



RD-D



Transitions Series Trim Sets

RA-S



RD-S



RM-S



ED-S



RA-D



RD-D



RM-D



RS-D

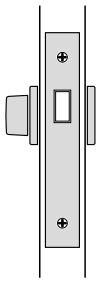


Standard Mortise Locks
Series SML and SMT Functions

Function S

Thumbturn Deadlock with Emergency Release (Privacy)

Description
Deadbolt by thumbturn inside and emergency release outside.



Premium and **Elements Series** Trim Sets

RA-SN/SI



RD-SN/SI



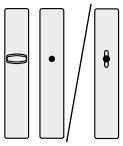
RM-SN/SI



RJ-SI



ED-SN/SI



RF-CI



RA-DN/DI



RD-DN/DI



Transitions Series Trim Sets

RA-SN/SI



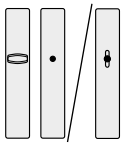
RD-SN/SI



RM-SN/SI



ED-SN/SI



RA-DN/DI



RD-DN/DI



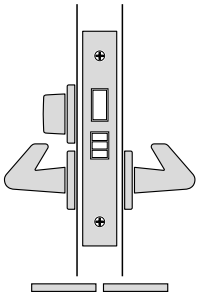
RM-DN/DI



RS-DN/DI



Function T
Patio



Split Spindle

Description
Latch bolt by handle either side.
Deadbolt by thumbturn inside.
Outside handle is rigid when deadbolt is thrown by thumbturn.
Use of inside handle retracts latch and deadbolt simultaneously.

Premium and **Elements Series** Trim Sets

RA-S



RD-S



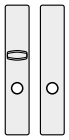
RM-S



RJ-S



ED-S



RF-C



RA-D



RD-D



Transitions Series Trim Sets

RA-S



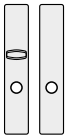
RD-S



RM-S



ED-S



RA-D



RD-D



RM-D



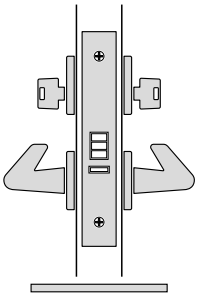
RS-D



Standard Mortise Locks
Series SML and SMT Functions

Function V

Institutional
ANSI Code F30



Solid Spindle

Description
Latch bolt by key either side. Inside* and outside handle always rigid. Auxiliary latch deadlocks latch bolt.

*Verify code compliance before using this function.

Premium and **Elements Series** Trim Sets

RA



RD



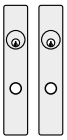
RF



RM



ED



Transitions Series Trim Sets

RA



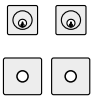
RD



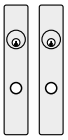
RM



RS



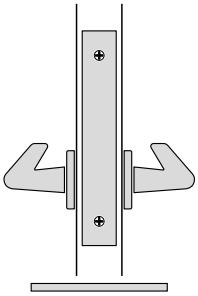
ED



Standard Mortise Locks
Series SML and SMT Functions

Function Y

(Double Lever)
Active Dummy
Mortise Case

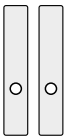


Straight Spindle

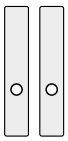
Description
Active dummy handle either side.



Premium and **Elements Series** Trim Sets

RA	RD	RM	RJ	ED	RF
					

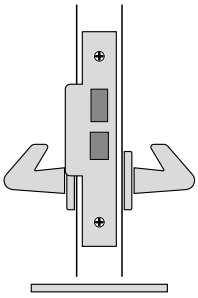
Transitions Series Trim Sets

RA	RD	RM	RS	ED
				

Function YS

(Double Lever)
Active Dummy
Mortise Case
Prepared as Strike

For Pairs of Doors



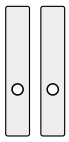
Straight Spindle

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

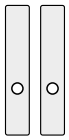
Strike regularly supplied with curved lip. (ANSI Standard A 115.1)



Premium and **Elements Series** Trim Sets

RA	RD	RF	RM	RJ	ED
					

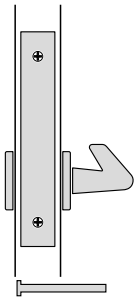
Transitions Series Trim Sets

RA	RD	RM	RS	ED
				

Standard Mortise Locks
Series SML and SMT Functions

Function Z

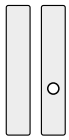
(Single Lever)
Active Dummy
Mortise Case



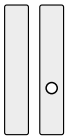
Description
Active dummy handle single side only with blind cover on opposing side.



Premium and **Elements Series** Trim Sets

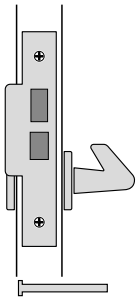
RA	RD	RF	RM	RJ	ED
					

Transitions Series Trim Sets

RA	RD	RM	RS	ED
				

Function ZS

(Single Lever)
Active Dummy
Mortise Case

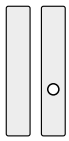


Description
Active dummy handle single side. Case front includes integrated strike and dust box to be utilized on inactive leaf.

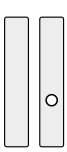
Strike regularly supplied with curved lip. (ANSI Standard A 115.1)



Premium and **Elements Series** Trim Sets

RA	RD	RF	RM	RJ	ED
					

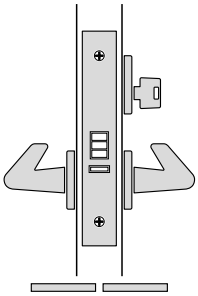
Transitions Series Trim Sets

RA	RD	RM	RS	ED
				

Standard Mortise Locks
Series SML and SMT Functions

Function JEU

Electrified Storeroom
Fail Secure



Split Spindle

Description
Solenoid activated mortise lock.

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

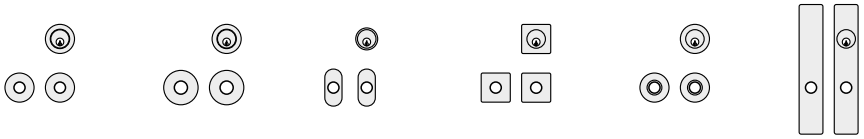
Key outside retracts latch bolt, when outside lever is locked.
Outside lever retracts latch bolt except when locked.

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

Monitoring Options
RX = Request to Exit Switch
LM = Latchbolt Monitor Switch
DP = Door Position Switch

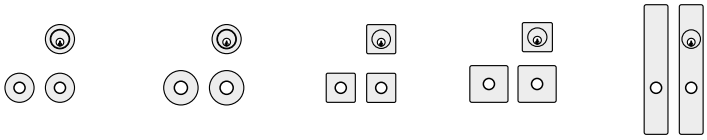
Premium and **Elements Series** Trim Sets

RA **RD** **RF** **RM** **RJ** **ED**



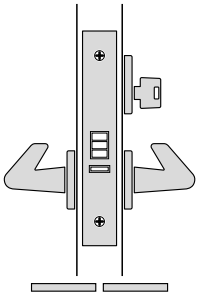
Transitions Series Trim Sets

RA **RD** **RM** **RS** **ED**



Function JEL

Electrified Storeroom
Fail Safe



Split Spindle

Description
Solenoid activated mortise lock.

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

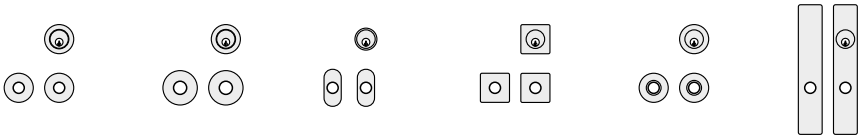
Key outside retracts latch bolt, when outside lever is locked.
Outside lever retracts latch bolt except when locked.

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

Monitoring Options
RX = Request to Exit Switch
LM = Latchbolt Monitor Switch
DP = Door Position Switch

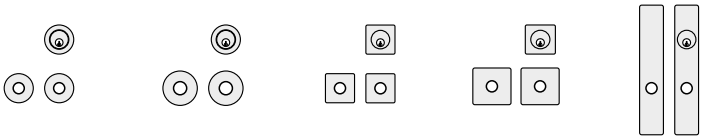
Premium and **Elements Series** Trim Sets

RA **RD** **RF** **RM** **RJ** **ED**



Transitions Series Trim Sets

RA **RD** **RM** **RS** **ED**



Standard Mortise Locks
Series SML and SMT Functions

Function VEU

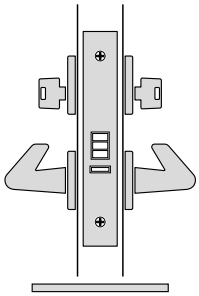
Electrified Institutional
Fail Secure

Description
Solenoid activated mortise lock.

EU function – Inside and outside handles simultaneously unlocked electronically.

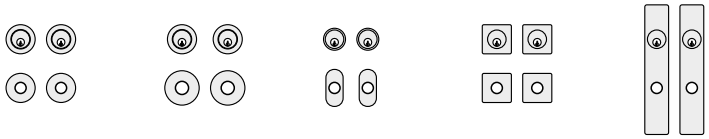
Latchbolt retracted by key on either side. Switched power allows both levers to retract latchbolt. Auxiliary latch deadlocks latch bolt.

Monitoring Options
RX = Request to Exit Switch
LM = Latchbolt Monitor Switch
DP = Door Position Switch


Solid Spindle

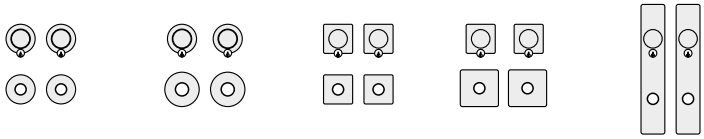
Premium and **Elements Series** Trim Sets

RA **RD** **RF** **RM** **ED**



Transitions Series Trim Sets

RA **RD** **RM** **RS** **ED**



Function VEL

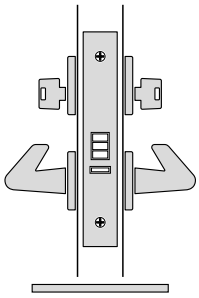
Electrified Institutional
Fail Secure

Description
Solenoid activated mortise lock.

EL function – Inside and outside handles simultaneously locked electronically.

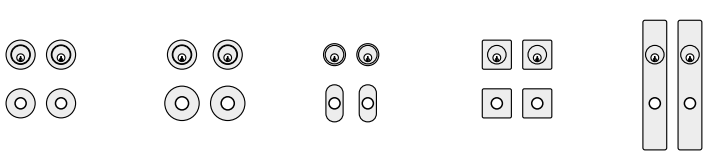
Latchbolt retracted by key on either side. Switched power allows both levers to retract latchbolt. Auxiliary latch deadlocks latch bolt.

Monitoring Options
RX = Request to Exit Switch
LM = Latchbolt Monitor Switch
DP = Door Position Switch


Solid Spindle

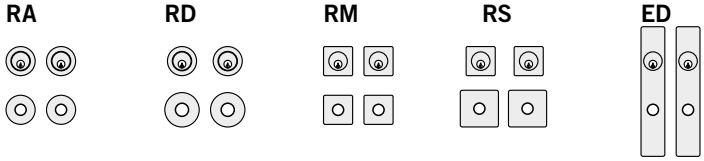
Premium and **Elements Series** Trim Sets

RA **RD** **RF** **RM** **ED**



Transitions Series Trim Sets

RA **RD** **RM** **RS** **ED**



Example for Specifying

SML - JEU* - 1147 - RA - 6204 - 234 - M1 - RH - 134

* Extra information required: J (EU) or (EL), 12 V or 24 V, AC or DC

Standard Mortise Locks
Power Supplies

SW 3



2.4 A, 27 VDC regulated power supply with three (3) non-fused outputs for mortise locks.

SW 3



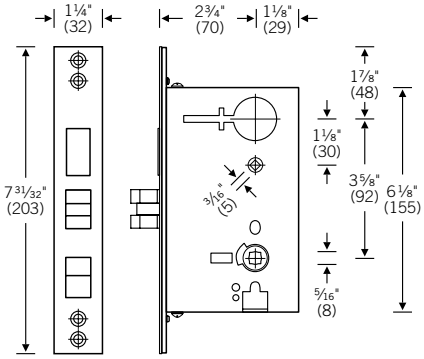
5 A, 24 V regulated solid-state power supply for up to eight (8 I/O and fire alarm link) mortise locks.

Electrified Mortise Lock Series SML and SMT
Mortise Case and Function



Series SML EL or SML EU

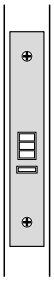
Recommended for minimum 1 ¾" (45 mm) door thickness with standard 1 ¼" (32 mm) armor front.
1" (25.4 mm) armor front available for doors with 1 ⅜" (35 mm) door thickness.
All SML and SMT use the same lock bodies.



SML 7158 VEU/VEL

Electrified Institutional Lock Body

EU = fail secure
EL = fail safe



Solenoid activated mortise lock.

EL function – Inside and outside handles simultaneously locked electronically.
EU function – Inside and outside handles simultaneously unlocked electronically.

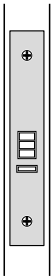
Latchbolt retracted by key on either side. Switched power allows both levers to retract latchbolt. Auxiliary latch deadlocks latch bolt.

Monitoring Options
RX = Request to Exit Switch
LM = Latchbolt Monitor Switch
DP = Door Position Switch

SML 7159 JEU/JEL

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
RX = Request to Exit Switch
LM = Latchbolt Monitor Switch
DP = Door Position Switch

Power Supplies

SW3
2.5 A, 27 VDC regulated power supply with three non-fused outputs for mortise locks.

PS5-8
5 A, 24 V regulated solid-state power supply for up to eight (8) mortise locks.

Electrified Mortise Lock Series SML and SMT
Installation

Optional monitoring features

RX (Request to Exit Switch)
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.

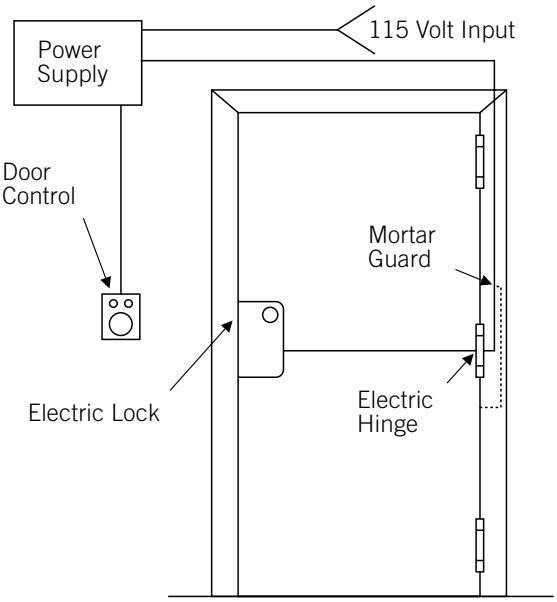
LM (Latchbolt Monitor Switch)
Monitors the full extension of the main latch. This feature may be used to signal a control console, activate an alarm, or control an electromagnetic lock for entrance and egress.

DP (Door Position Switch)
Available on 2¾" backset only.
Monitors the status of both the solenoid (locked or unlocked) and the auxiliary latch (deadlatch 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 RX, LM, or DP after the designation EU or EL (example: 1147 J EU/RX).
Locks are supplied with a bridge rectifier to convert AC to DC.

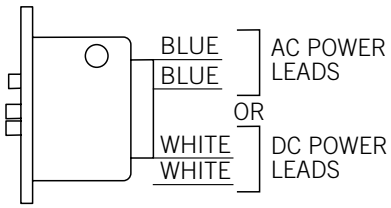
Specifications: Operating voltage is 12 or 24 VAC/DC plus or minus 10 %. You must specify voltage when ordering.
Amperage is 12 V = 700 mA or 24 V = 350 mA.
Solenoid coil resistance is 12 = 18 Ω or 24 V = 69 Ω.
Power consumption is 8 watts.

Typical installation

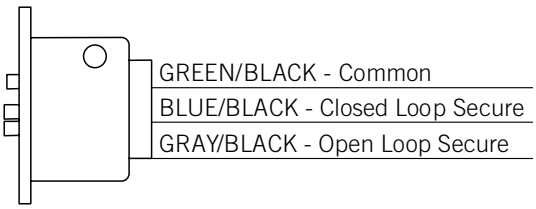


Wiring schematics by option

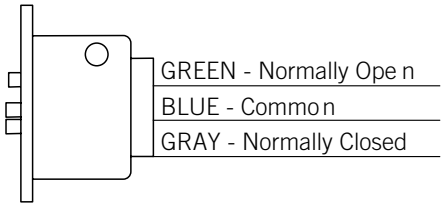
EL & EU – Fail Safe and Fail Secure



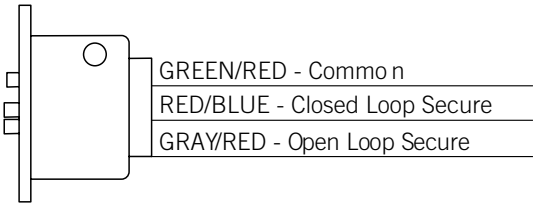
LM – Latchbolt Monitor Switch



RX – Request to Exit Switch



DP – Door Position Switch



Trim Set Overview
Series SML and SMT

RA
55mm Round



RD
65mm Round



RF
Oval



RM
55mm Square



RS
65mm Square



ED
Escutcheon



RJ
Flush

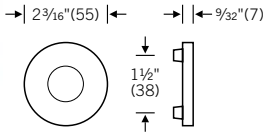


	Premium		Elements	Transitions	
Materials and Finishes	Stainless Steel	Bronze	Aluminum	Brass	
	6204 (630)	7305 (611)	0105 (628)	Plated Brass	Natural Brass
	6205 (629)	7615 (615)	0205	014 (618)	003 (605)
		7625 (613)	0410	015 (619)	004 (606)
			0510	026 (625)	10B (607)
			0710 (710)	03P (605)	
			0810 (711)		
			Powder Coated		

RA

17 1731 01401
Rose 2 3/16" (55 mm)

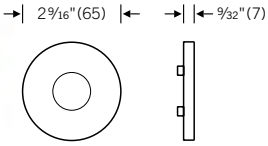




RD

17 1798 02401
Rose 2 9/16" (65 mm)

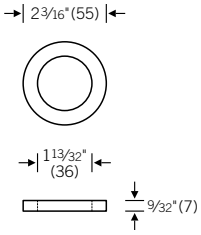




Cylinder Ring

17 1735 02601







Cylinder must be ordered separately

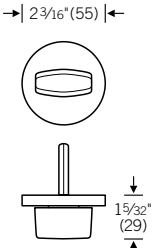
SML & SMT

Thumbturns for RA 55mm & **RD** 65mm Roses
Series SML and SMT

S

17 1744 00169
Standard Thumbturn







RA - Configuration
55mm S Thumbturn
55mm Lever Rose



RD - Configuration
55mm S Thumbturn
65mm Lever Rose

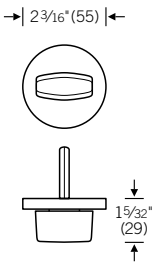
Standard Turn with Emergency Release (SN)

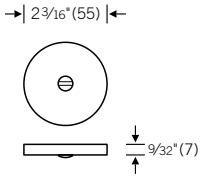
17 1744 00160

Trim Set - Includes two rose assemblies, spindle and screws









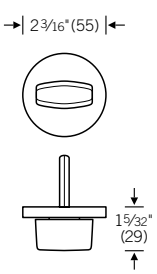
Standard Turn with Emergency Release and Indicator (SI)

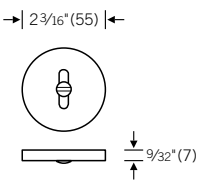
17 1744 00159

Trim Set - Includes two rose assemblies, spindle and screws







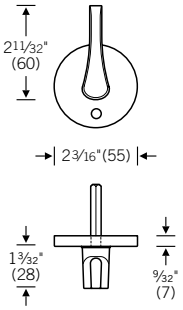


Thumbturns for RA 55mm & **RD** 65mm Roses
Series SML and SMT

D

17 1744 09169
ADA Thumbturn







RA - Configuration
55mm D Thumbturn
55mm Lever Rose



RD - Configuration
55mm D Thumbturn
65mm Lever Rose

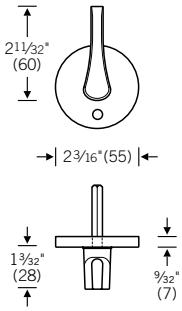
ADA Turn with Emergency Release (DN)

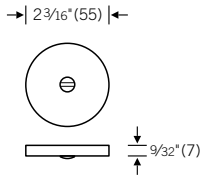
17 1744 09160

Trim Set - Includes two rose assemblies, spindle and screws









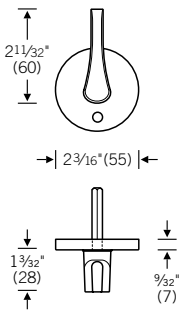
ADA Turn with Emergency Release and Indicator (DI)

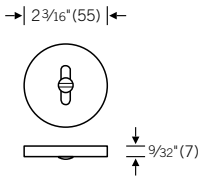
17 1744 09159

Trim Set - Includes two rose assemblies, spindle and screws









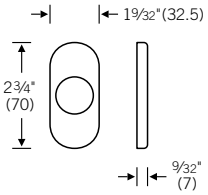
Oval Rose and Thumbturn RF
Series SML and SMT

Premium and Elements Only

RF

17 1758 00001
Narrow Rose

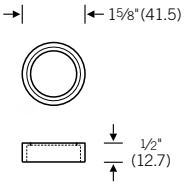




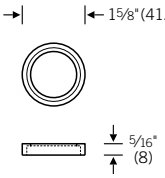
Cylinder Ring

03 0450 09000
03 0450 09001









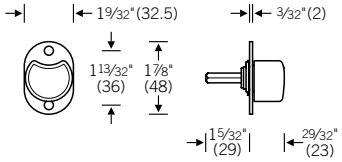


Cylinder must be ordered separately

C

03 0418 09001
Crescent Thumbturn





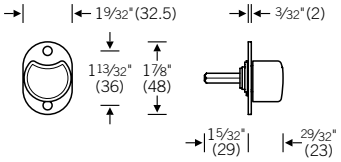
Crescent Turn with Emergency Release and Indicator (CI)

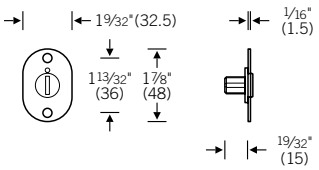
03 0418 09002

Trim Set - Includes two rose assemblies, spindle and screws







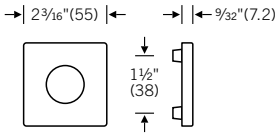


Square Lever Roses
Series SML and SMT

RM

17 1703 01401
Square Rose

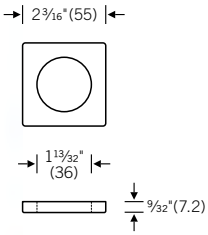




Cylinder Ring

17 1704 02601







Cylinder must be ordered separately

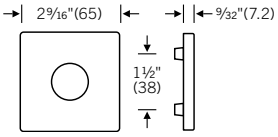
Transitions Series SMT only

RS

Designed to fit a 2 ⅛" bore

17 1705 01401
Square Rose



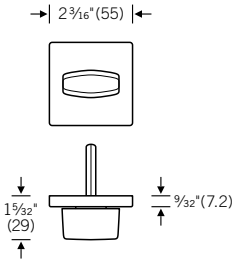


Thumbturns for RM 55mm & **RS** 65mm Square Roses
Series SML and SMT

S

17 1712 00169
Standard Thumbturn







RM - Configuration
55mm S Thumbturn
55mm Lever Rose



RS - Configuration
55mm S Thumbturn
65mm Lever Rose

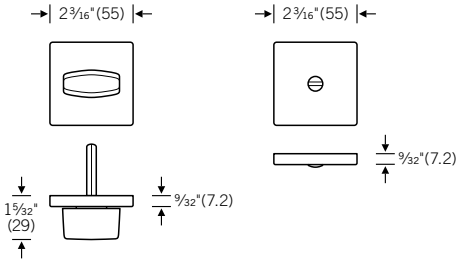
Standard Turn with Emergency Release (SN)

17 1712 00160

Trim Set - Includes two rose assemblies, spindle and screws







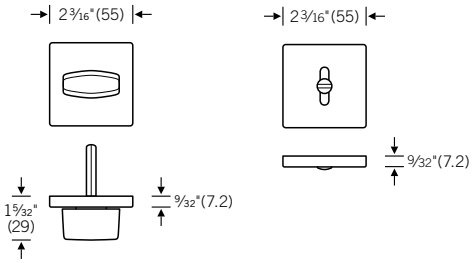
Standard Turn with Emergency Release and Indicator (SI)

17 1712 00159

Trim Set - Includes two rose assemblies, spindle and screws



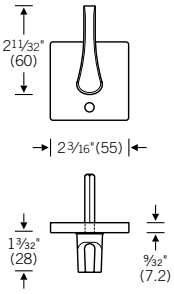




D

17 1712 09169 ■
ADA Thumbturn







RM - Configuration
55mm D Thumbturn
55mm Lever Rose



RS - Configuration
55mm D Thumbturn
65mm Lever Rose

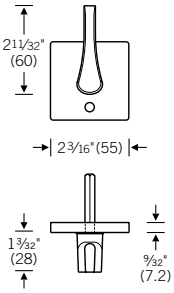
ADA Turn with Emergency Release (DN)

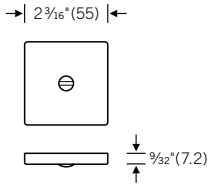
17 1712 09160 ■ Transitions Series Only

Trim Set - Includes two rose assemblies, spindle and screws









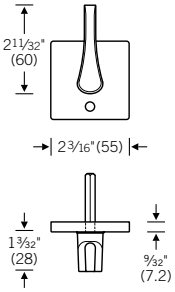
ADA Turn with Emergency Release and Indicator (DI)

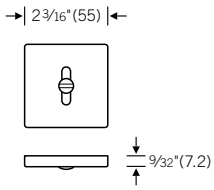
17 1712 09159 ■ Transitions Series Only

Trim Set - Includes two rose assemblies, spindle and screws





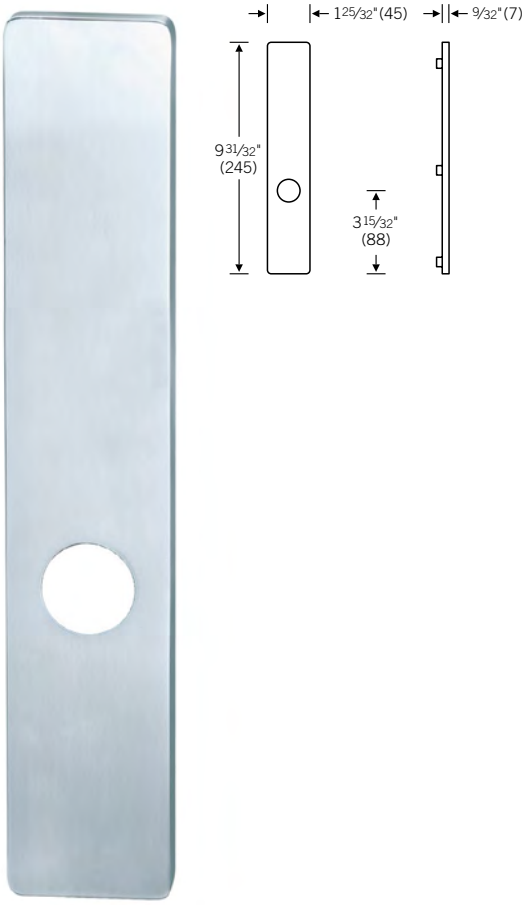




Trim Sets for ED Long Rectangular Escutcheon Plate
Series SML and SMT

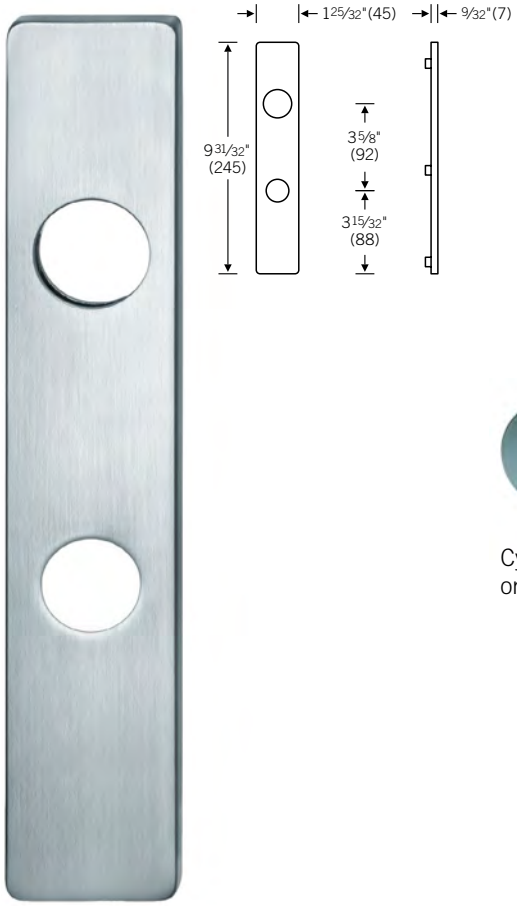
ED

14 1410 09100
9 5⁄8" (245 mm)



Cylinder Hole

14 1410 09101

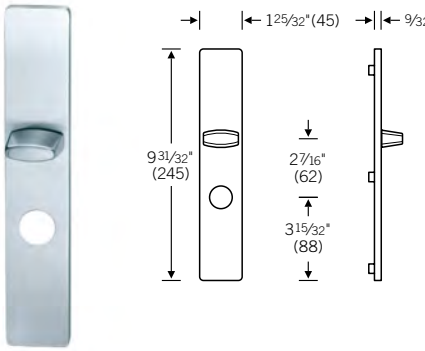




Cylinder must be ordered separately

S

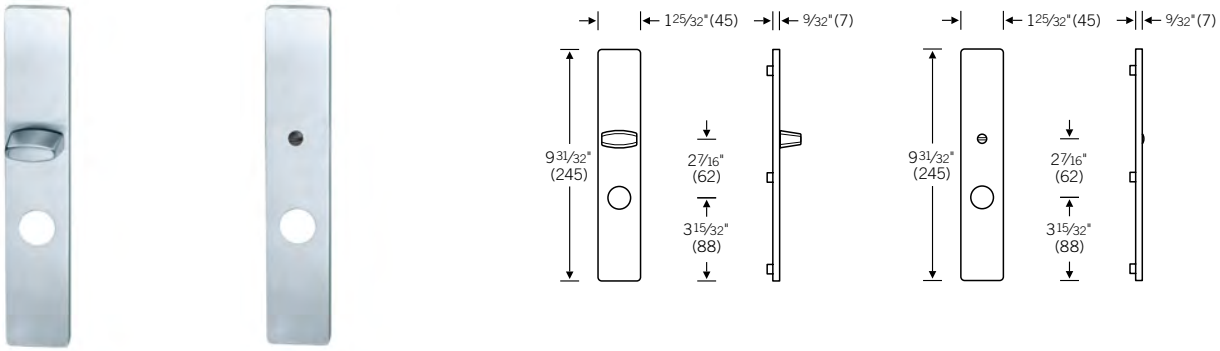
14 1410 09102
Standard Thumbturn



Standard Turn with Emergency Release (SN)

14 1410 09103

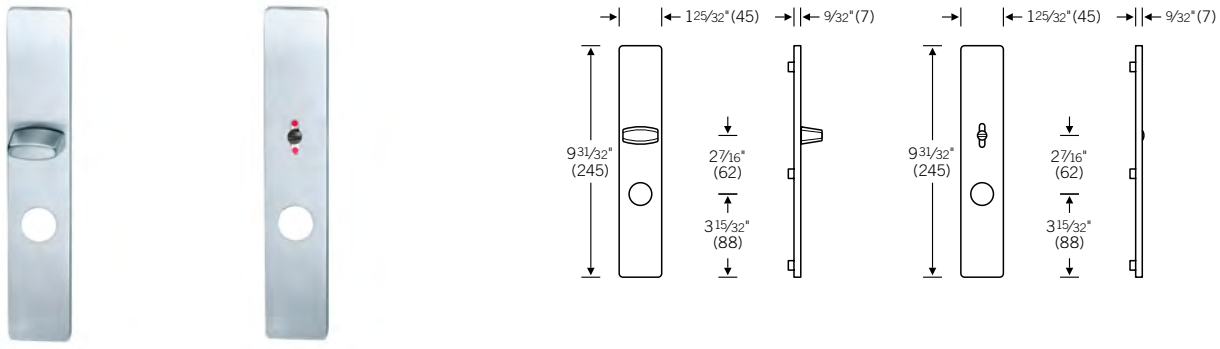
Trim Set - Includes two rose assemblies, spindle and screws



Standard Turn with Emergency Release and Indicator (SI)

14 1410 09113

Trim Set - Includes two rose assemblies, spindle and screws



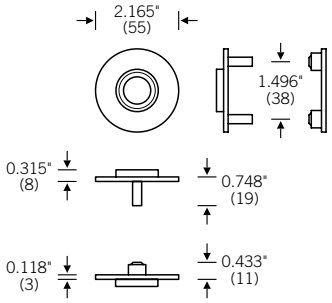
Flush Rose and Thumbturn RJ
Series SML and SMT

Premium and Elements Only

RJ

17 1736 09011
0.118 × 2.165" (3 × 55 mm)

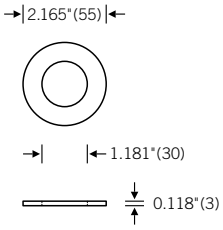




Cylinder Ring

17 1737 09005
0.118 × 2.165" (3 × 55 mm)







Cylinder must be ordered separately

Thumbturn for RJ Flush Rose

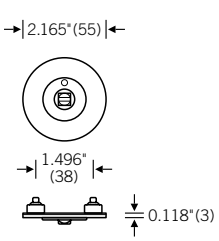
Standard Turn with Emergency Release and Indicator (SI)

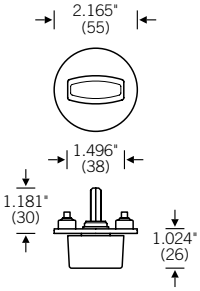
17 1737 09019

Trim Set - Includes two rose assemblies, spindle and screws









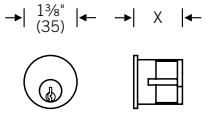
RJ trim cannot be purchased independently from lockset.
Trim number for reference only.

RJ trim is available for 1¾" door thickness only.

The following lever designs are not available with the RJ Flush Rose:
1051, 1058, 1163, 1164, 1241

88 8806





88 8806 07165 Length X = 1"
88 8806 07185 Length X = 1⅛"
88 8806 07205 Length X = 1¼"
88 8806 07245 Length X = 1½"
88 8806 07285 Length X = 1¾"
88 8806 07325 Length X = 2"

FSB mortise cylinders are supplied (keyed differently) and are available in the 6 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" × 32 UNS.

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

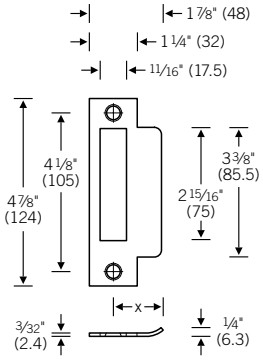
Cap Finishes
· US28 (matches FSB 0105) Aluminum Natural Color Anodized
· US10B Oil Rubbed Bronze
· US19 Flat Black
· US32 Polished Stainless Steel
· US32D Satin Stainless Steel

Cam Types
· SC19 (clover cam); used for all mortise locks

Trim	Door Thickness	Cylinder Length	Single Cylinder	Cylinder Length X2	Double Cylinder
All roses	1⅜"	1"	88 8806 7165sc19	N/A	N/A
except RJ	1¾"	1⅛"	88 8806 7185sc19	1"	88 8806 7165sc19
Call FSB for	2"	1¼"	88 8806 7205sc19	1⅛"	88 8806 7185sc19
RJ Cyl Dimen.	2¼"	1¼"	88 8806 7205sc19	1⅛"	88 8806 7185sc19
	2⅜"	1½"	88 8806 7245sc19	Call	
	3"	1¼"	88 8806 7285sc19	Call	
	3¼"	1⅞"	88 8806 7305sc19	Call	
	3½"	2"	88 8806 7325sc19	Call	
Escutcheons	1⅜"	N/A	N/A	N/A	N/A
	1¾"	1¼"	88 8806 7205sc19	1⅛"	88 8806 7185sc19
	2"	1¼"	88 8806 7205sc19	1⅛"	88 8806 7185sc19
	2¼"	1½"	88 8806 7245sc19	1¼"	88 8806 7205sc19
	2⅜"	1¾"	88 8806 7285sc19	Call	
	3"	1⅞"	88 8806 7305sc19	Call	
	3¼"	2"	88 8806 7325sc19	Call	

Note: For offset doors, all FSB trim is 7mm thick





SML 1001

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

Standard **M1** = 1¼" (32 mm)

SML 1001 99

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

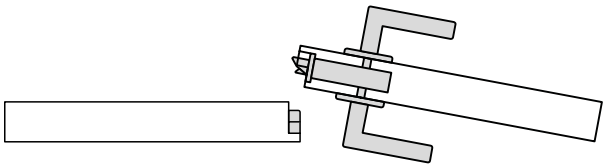
* Identify lip to center (x dimension) and specify mortise strike number

Mortise Strike Number	Lip To Center Dimension (x)	Typical Door Thickness*	ANSI Strike Type
M1	1¼"	1⅜" - 1¾"	Curved Lip (Std.)
M2	1⅛"	1½"	Curved Lip
M3	1⅜"	2"	Curved Lip
M4	1½"	2¼"	Curved Lip
M5	1¾"	2¾"	Curved Lip
M6	2"	3¼"	Curved Lip
M7	2¼"	3¼"	Curved Lip
M8	2½"	4¼"	Curved Lip
M9	2¾"	4¾"	Curved Lip
M10	3"	5¼"	Curved Lip
M11	1¾"	2¾"	Open Back
M12	2"	3¼"	Open Back
M13	2¼"	3¼"	Open Back

***Based on Lock centered in door**
Functions D, F, G, I, J, and K are handed.

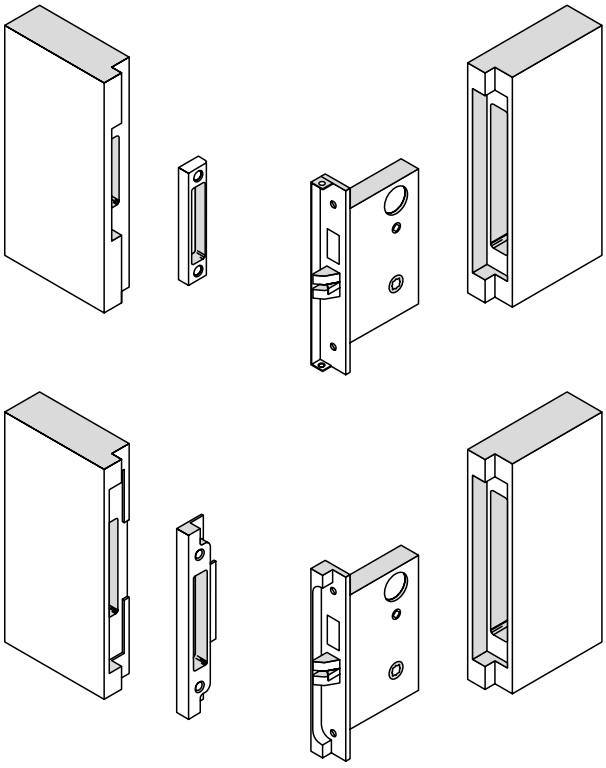
For custom strikes, please call FSB.

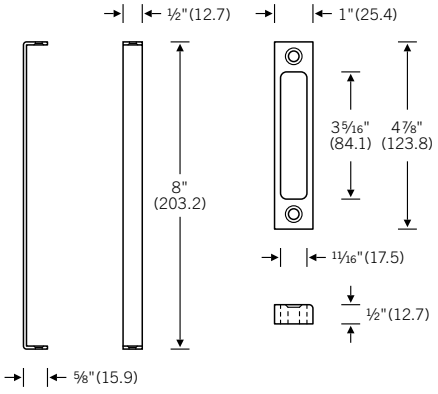
SML and SMT Lock Series
Rabbeted Strikes and Band



Standard - RFS1
Traditional - RFS2

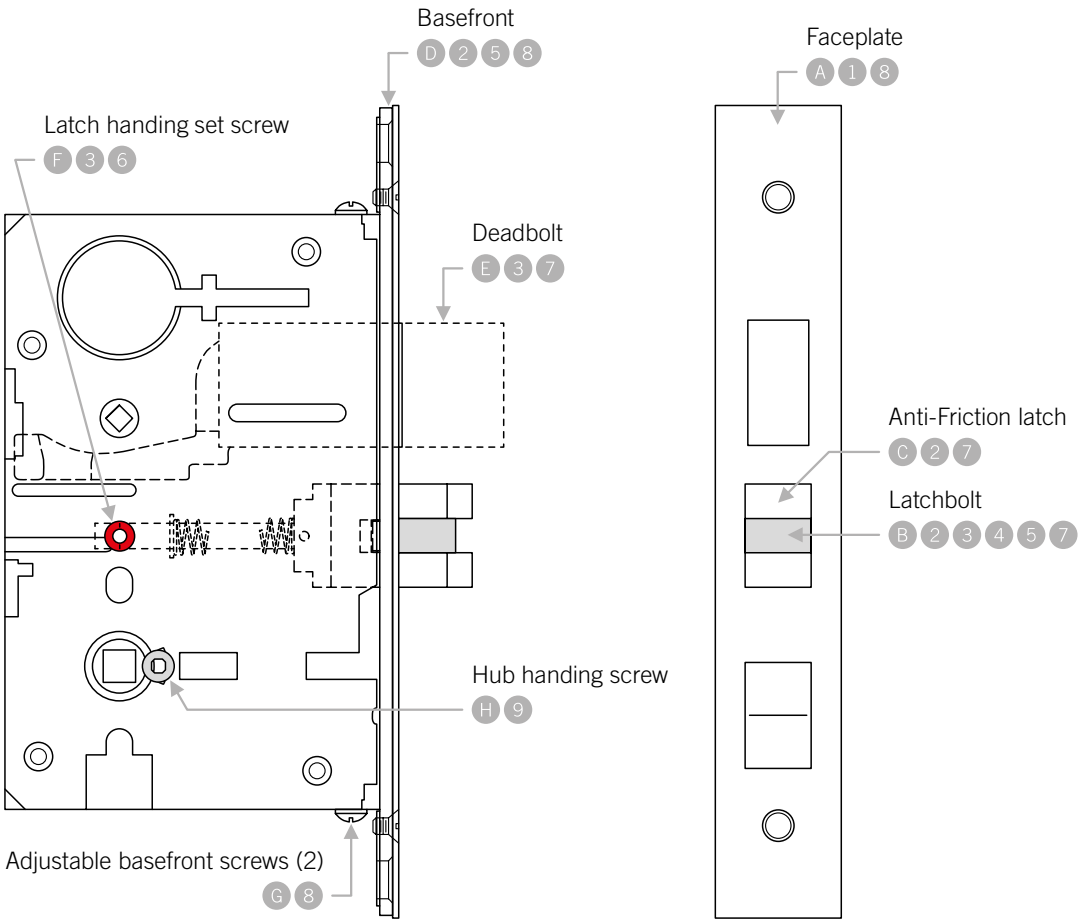
Rabbet depth ½" deep centered within the door. Please specify lock number, door thickness, and finish.





Technical drawing for RFS1 Standard Strike.

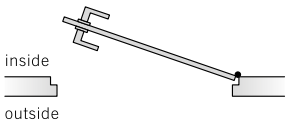
SML and SMT Lock Series Reverse Handing
Technical Explanation



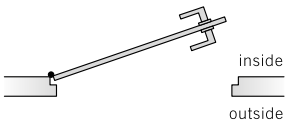
		Task		
Current Hand	Required Hand	Flip Latch	Reverse Hubs	Strike Needed*
LH	RH	•	•	RH
RH	LH	•	•	LH
LR	RR	•	•	LH
RR	LR	•	•	RH
LH	LR	•		RH
RH	RR	•		LH
LH	RR		•	LH
RH	LR		•	RH

* Handed strikes are required for functions with an auxiliary deadlatch. For all other functions a universal strike is furnished.
All 2¾" backset locks with the exception of functions EU, EL, F and G are field reversible.

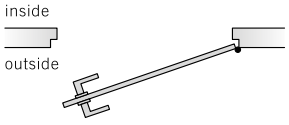
RH Right Hand



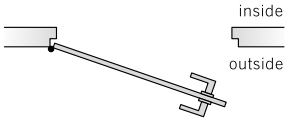
LH Left Hand



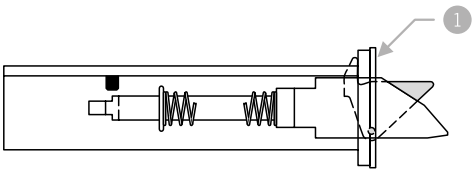
RR Right Hand Reverse



LR Left Hand Reverse

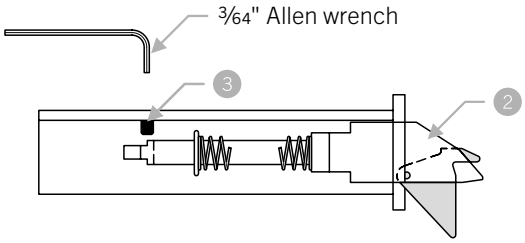


SML and SMT Lock Series Reverse Handing
Technical Explanation



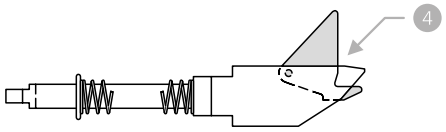
To flip the latch bolt

1 Remove the faceplate A.

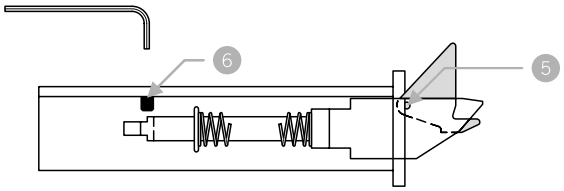


2 Push latchbolt B inside lock, push down anti-friction latch C and release latch so the anti-friction piece is beyond the basefront D.

3 If the lock has a deadbolt E, throw the deadbolt into projected position. Locate set screw hole F on the coverside. Insert 3⁄64 " Allen wrench, fully loosen screw until it tops out against the underside of the cover. Tip: Hold latchbolt B in between fingers to apply outward pressure, while loosening the screw.

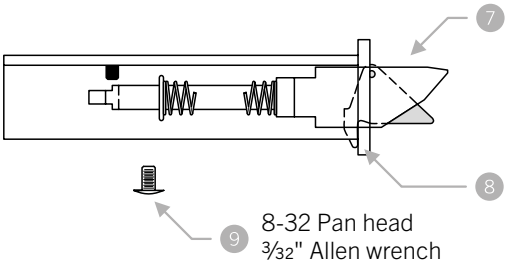


4 Pull out and FLIP latchbolt B.



5 Re-Insert latch, push in latch assembly until hole in latchbolt B is in line with the basefront D.

6 Fully tighten set screw F, while applying moderate inward pressure.



7 If lock has deadbolt E, retract deadbolt. Retract latch-bolt B such that the anti-friction latch C is returned to the normal position. Test lock for proper functioning before installation.

8 Adjust the bevel G on the basefront H and re-install faceplate A.

To reverse the hubs

9 Insert a 3⁄32 " Allen wrench into the black pan head screw H, loosen and remove screw, insert and tighten the screw in the opposite side of the lock.

Test lock for proper functioning before installation.

SML and SMT Lock Series
Suggested Specification

All mortise locksets shall be provided from one manufacturer and shall be capable of providing backsets from 2½" to 6" backset using the same lever and trim designs from FSB North America.

All locksets with latchbolts, regardless of trim, shall be listed by Underwriters Laboratories for A label and less class doors, 4' × 8' or 8' × 8' pair.

All levers and trim design shall be capable of being suited to operate tubular and sliding door locks to maintain the design through out the project. All locks and trim must be provided by the same manufacturer.

Certification:
UBC – 7-2 and UL10C – Positive Pressure.
ANSI A156.13 Series 1000, Grade 1
ANSI A117.1 Accessibility Code, (formerly Title 19, California State Fire Marshal Standard) Lever handle trim.

All locks, levers, and trim shall be from one manufacturer.

All mechanical locksets shall carry a 10 year limited warranty.

All electrified locksets shall carry a 3 year limited warranty.

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" × 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.

Anti-Friction Latch Bolt
.625" × 1" × .75" (12 × 25.4 × 19 mm) throw.
Two-piece mechanical oil impregnated sintered stainless steel.

Deadbolt
.5625 × 1.25" × 1" (14 × 32 × 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, 28 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 lever 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 with plastic dust box. Flat lip, full lip, special length strikes and wrought dust boxes may be had on a special order basis.

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.

Field Reversibility
All 2¾" backset locks with the exception of functions EU, EL, F and G are field reversible.

FSB Subrose

FSB ASL® Subrose



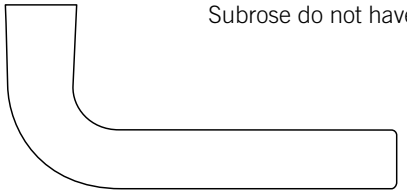
Product variants
– Roses RA, RD, RM and ED escutcheons
– All fixed levers with above trim

Adaptor
Base rose is screwed to the door leaf first, without the cover or the lever
Additionally, it is no longer necessary to “screw past” the handle shank.

Fasteners
Fastening by means of through-fixed bolting with retention lugs and machine screws.

Solid spindle
The 8 mm solid spindle caters to standard door thicknesses from 1⅜ to 2¼ inches.

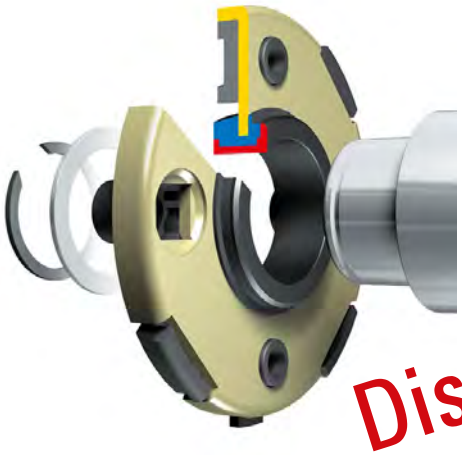
Availability
The new FSB ASL® will be supplied with all FSB North America locksets.



FSB ASL® Subrose
Levers used on the FSB ASL® Subrose do not have a neck.



FSB Original Subrose

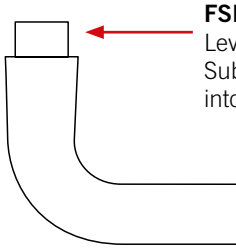


Product variants
– Roses RA, RD, RF, RM and ED escutcheons

Fasteners
Fastening by means of through-fixed bolting with retention lugs and machine screws.

Spindle
Solid and split spindles depending on lock type and function.

Discontinued



FSB Original Subrose
Levers used on the FSB Original Subrose have a neck that installs into the subrose.





Narrow Mortise Lock
NML & NMT Series

Quality

The FSB Narrow Mortise Lock (NML/NMT) is manufactured in the United States to meet the stringent demands of high-traffic commercial, institutional, and governmental applications. Built using a heavy-gauge steel case, the lock features the ability to fit very narrow style door conditions. Also an excellent choice for high end residential applications. The lock is backed by a 10 year warranty.

Design Advantage

FSB has the widest selection of designer levers and trim in the industry. With more than 100 designer levers and trim that can be suited with our standard and European mortise locks, tubular locks, sliding door locks, sliding door hardware, and door pulls FSB will complement your design vision.

Specifying Narrow Mortise Locksets

(NML) Available with Premium Series and Elements Series Trim
(NMT) Available with Transitions Series Trim

Lock Type

NML

Insert your choice of Lock Type.

NML
Premium Elements

Lock Function

E

Insert your choice of function using one of the letter codes below

A Store Door
B Dormitory
C Passage
E Privacy
F Public Restroom
G Classroom
H Entrance
I Office
J Storeroom
M Single Key Deadlock
N Key × Key Deadlock
P Key × Thumbturn Deadlock
R Thumbturn Deadlock
S Thumbturn Deadlock with Emergency Release (Privacy)
T Patio
Y Active Double Dummy
YS Active Double Strike
Z Active Single Dummy
ZS Active Single Strike

Lever Design

1147

Insert your choice of lever or design using one of the four digit codes.

Premium/Elements

1001*	**1078**
1002*	**1080**
1003	**1088**
1004	**1093**
1005	**1102**
1015	**1106**
1016	**1107**
1020*	**1108**
1021	**1119**
1023	**1134**
1025	**1144**
1027	**1146**
1028	**1147**
1031	**1160**
1034*	**1163**
1035	**1164**
1045	**1176**
1051*	**1177**
1053	**1178**
1057	**1183**
1058	**1185***
1070	**1241***
1074	**1251^**
1075	**1257***
1076	**1259***
1077*	

^ Stainless Only
* Elements Only

Trim Set

RA

Insert your choice of rose or escutcheon using one of the two digit codes.

Premium/Elements

RA Rose 2 3/16" (55 mm)
RD Rose 2 9/16" (65 mm)
RF Narrow Rose
RM Square Rose (55 mm)
ED Long Rectangular

Trim sets are dependent on lock function. Not all trim sets are available for all functions. More details are provided on the lock function pages.

Thumbturn and Indicator

SN*

Insert your choice of thumbturn and indicator if necessary using the codes provided.

Premium/Elements


S Standard thumbturn available with roses and escutcheons


D ADA thumbturn available with RA & RD roses only


C Crescent thumbturn available with RF Trim only

Premium, Elements and Transitions
Emergency Releases


N **I**

* Thumbturn and/or Indicator choices are only necessary with the B, E, H, P, R, S, and T lock functions.

NMT

Transitions

Transitions

1035	**1250**
1058	**1251**
1075	**1252**
1076	**1253**
1241	

Transitions

RA Rose 2 3/16" (55 mm)
RD Rose 2 9/16" (65 mm)
RM Square Rose (55 mm)
RS Square Rose 2 9/16" (65 mm)
ED Long Rectangular

Transitions


S Standard thumbturn available with all roses and escutcheons


D ADA thumbturn available with roses only

Example for Specifying

NML - E - 1147 - RA - SN - 6204 - 200 - N1 - RH - 134

Material and Finish

6204

Insert your choice of material and finish using one of the codes below.

Premium
Stainless Steel

- **6204** Satin (630)
- **6205** Polished (629)

Bronze

- **7305** Polished, Waxed (611)
- **7615** Aged, Waxed (615)
- **7625** Dark Oxidized, Waxed (613)

Elements
Aluminum Anodized

- **0105** Natural Color (628)
- **0205** Champagne Silver Color
- **0410** Bronze Color
- **0510** Medium Bronze Color
- **0710** Dark Bronze Color (710)
- **0810** Black Color (711)

Aluminum Powder Coated

- **8120** Black (671)
- **8220** White (714)

Transitions
Plated

- **014** Polished Nickel (618)
- **015** Satin Nickel (619)
- **026** Polished Chrome (625)
- **03P** Polished Brass PVD (605)

Natural

- **003** Polished Brass (605)
- **004** Satin Brass (606)
- **10B** Satin Brass Dark Oxidized (607)

Backset

112

Insert your choice of backset using one of the three digit codes below

Standard

200 2" Backset

Special Order

112 1½" Backset (Only available with RF, ED Trim)
134 1¾" Backset (Not available with RD Trim)
214 2¼" Backset

Strike

N1

Insert your choice of strike using one of the two letter codes below

Standard

N1

Special Order

N2
N3
N4
N5
N6
N7
N8
N9
N10
N11
N12
N13

Handing

RH

Insert your choice of hand using one of the two letter codes below

RH Right Hand
RR Right Hand Reverse

LH Left Hand
LR Left Hand Reverse

Door Thickness

134

Insert your choice of door thickness using one of the three digit codes.

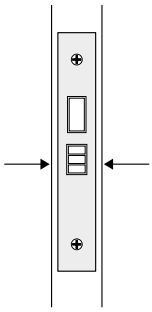
Standard

134 1¾"

Special Order

138 1⅜"
200 2"
214 2¼"

All sizes over 2¼" thick please consult FSB.



Narrow Mortise Locks
Series NML and NMT Functions



Series NML & NMT

Narrow Mortise Lock

Backsets
1½" (38 mm)*
1¾" (45 mm)**
2" (51 mm)
2¼" (57 mm)

* Only available with RF and ED Trim
** Not available with RD Trim

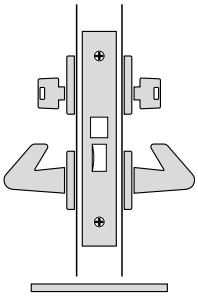
Strike
See page 140 for strike information.

Lock Body
All NML and NMT use the same lock bodies.

Function A

Store Door

ANSI Code F14



Solid Spindle

Description
Latch bolt by handle either side.
Deadbolt by key either side.
No emergency egress.

Premium and **Elements Series** Trim Sets

RA



RD



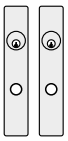
RF



RM



ED



Transitions Series Trim Sets

RA



RD



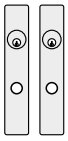
RM



RS



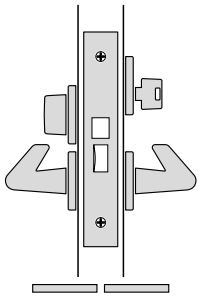
ED



Function B

Dormitory

ANSI Code F13



Split Spindle

Description
Latch bolt by handle either side. Deadbolt by key outside and thumbturn inside.
Use of inside handle retracts latch and deadbolt simultaneously, automatically unlocking outside handle.
Outside handle is rigid when deadbolt is thrown by key or thumbturn.

Premium and **Elements Series** Trim Sets

RA-S



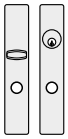
RD-S



RM-S



ED-S



RF-C



RA-D



RD-D



Transitions Series Trim Sets

RA-S



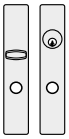
RD-S



RM-S



ED-S



RA-D



RD-D



RM-D



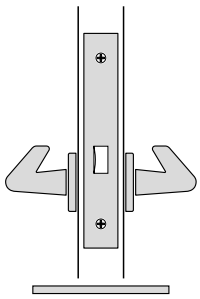
RS-D



Narrow Mortise Locks
Series NML and NMT Functions

Function C
Passage

ANSI Code F01



Straight Spindle

Description
Latch bolt by handle either side.

Premium and **Elements Series** Trim Sets

RA



RD



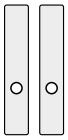
RF



RM



ED



Transitions Series Trim Sets

RA



RD



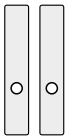
RM



RS



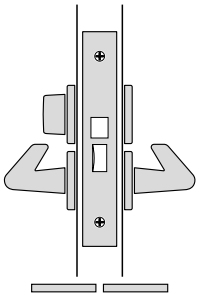
ED



Function E

Privacy

ANSI Code F19

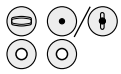


Split Spindle

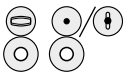
Description
Latch bolt by handle either side.
Deadbolt by thumbturn inside and emergency release outside.
Use of inside handle retracts latch and deadbolt simultaneously, automatically unlocking outside handle.
Outside handle is rigid when deadbolt is thrown by thumbturn.

Premium and **Elements Series** Trim Sets

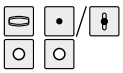
RA-SN/SI



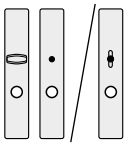
RD-SN/SI



RM-SN/SI



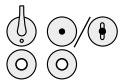
ED-SN/SI



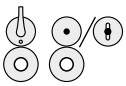
RF-CI



RA-DN/DI

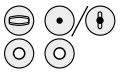


RD-DN/DI

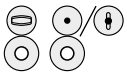


Transitions Series Trim Sets

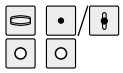
RA-SN/SI



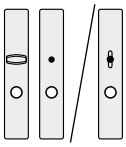
RD-SN/SI



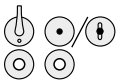
RM-SN/SI



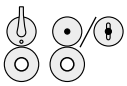
ED-SN/SI



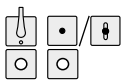
RA-DN/DI



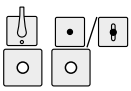
RD-DN/DI



RM-DN/DI



RS-DN/DI

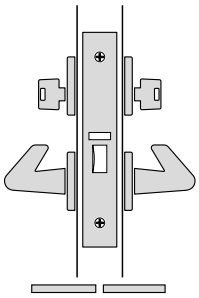


Narrow Mortise Locks
Series NML and NMT Functions

Function F
Public Restroom

ANSI Code F09

Description
Latch bolt by handle either side unless outside handle is locked by master key from inside. When outside handle is locked, latch bolt by key outside and handle inside.
Auxiliary latch deadlocks latch bolt.



Split Spindle

Premium and **Elements Series** Trim Sets

RA



RD



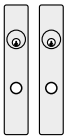
RF



RM



ED



Transitions Series Trim Sets

RA



RD



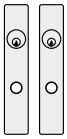
RM



RS



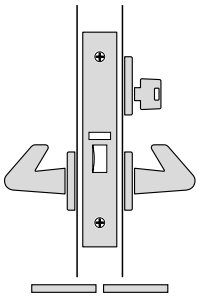
ED



Function G
Classroom

ANSI Code F05

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



Split Spindle

Premium and **Elements Series** Trim Sets

RA



RD



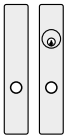
RF



RM



ED



Transitions Series Trim Sets

RA



RD



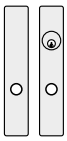
RM



RS



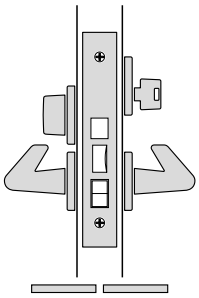
ED



Function H

Entrance

ANSI Code F12



Split Spindle

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

Premium and **Elements Series** Trim Sets

RA-S



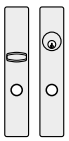
RD-S



RM-S



ED-S



RF-C



RA-D



RD-D



Transitions Series Trim Sets

RA-S



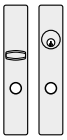
RD-S



RM-S



ED-S



RA-D



RD-D



RM-D



RS-D

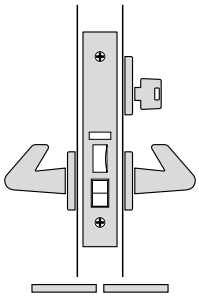


Narrow Mortise Locks
Series NML and NMT Functions

Function I
Office

ANSI Code F04

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



Split Spindle

Premium and **Elements Series** Trim Sets

RA



RD



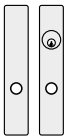
RF



RM



ED



Transitions Series Trim Sets

RA



RD



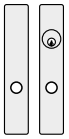
RM



RS



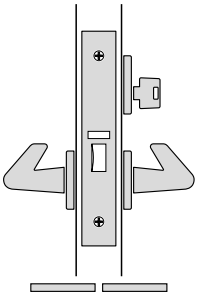
ED



Function J
Storeroom

ANSI Code F07

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



Split Spindle

Premium and **Elements Series** Trim Sets

RA



RD



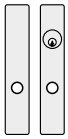
RF



RM



ED



Transitions Series Trim Sets

RA



RD



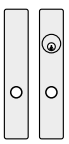
RM



RS



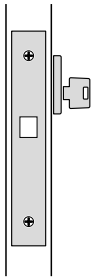
ED



Function M
Single Key Deadlock

Description
Deadbolt by key outside.
No operation inside.

ANSI Code F18



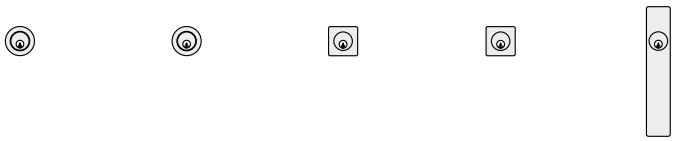
Premium and **Elements Series** Trim Sets

RA **RD** **RF** **RM** **ED**



Transitions Series Trim Sets

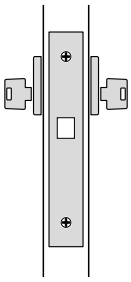
RA **RD** **RM** **RS** **ED**



Function N
Key × Key Deadlock

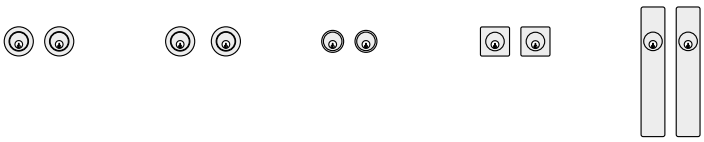
Description
Deadbolt by key either side.

ANSI Code F16



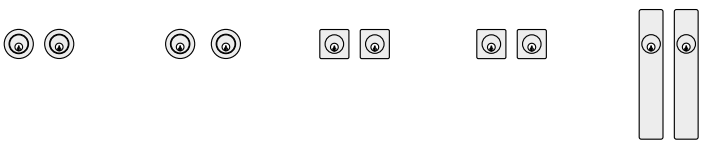
Premium and **Elements Series** Trim Sets

RA **RD** **RF** **RM** **ED**



Transitions Series Trim Sets

RA **RD** **RM** **RS** **ED**



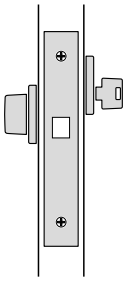
Narrow Mortise Locks
Series NML and NMT Functions

Function P

Key × Thumbturn
Deadlock

Description
Deadbolt by key outside and thumbturn inside.

ANSI Code F17



Premium and **Elements Series** Trim Sets

RA-S



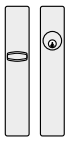
RD-S



RM-S



ED-S



RF-C



RA-D



RD-D



Transitions Series Trim Sets

RA-S



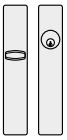
RD-S



RM-S



ED-S



RA-D



RD-D



RM-D

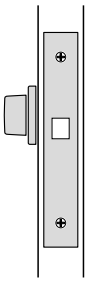


RS-D



Function R
Thumbturn Deadlock

Description
Deadbolt by thumbturn inside.
No operation outside.



Premium and **Elements Series** Trim Sets

RA-S



RD-S



RM-S



ED-S



RF-C



RA-D



RD-D



Transitions Series Trim Sets

RA-S



RD-S



RM-S



ED-S



RA-D



RD-D



RM-D



RS-D

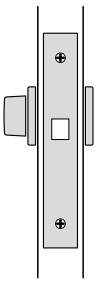


Narrow Mortise Locks
Series NML and NMT Functions

Function S

Thumbturn Deadlock with Emergency Release (Privacy)

Description
Deadbolt by thumbturn inside and emergency release outside.



Premium and **Elements Series** Trim Sets

RA-SN/SI



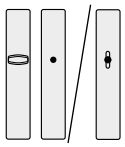
RD-SN/SI



RM-SN/SI



ED-SN/SI



RF-CI



RA-DN/DI



RD-DN/DI



Transitions Series Trim Sets

RA-SN/SI



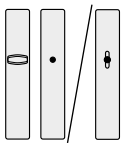
RD-SN/SI



RM-SN/SI



ED-SN/SI



RA-DN/DI



RD-DN/DI



RM-DN/DI

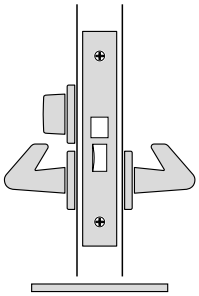


RS-DN/DI



Function T

Patio



Solid Spindle

Description
Latch bolt by handle either side.
Deadbolt by thumbturn inside.
Outside handle is rigid when deadbolt is thrown by thumbturn.
Use of inside handle retracts latch and deadbolt simultaneously.

Premium and **Elements Series** Trim Sets

RA-S



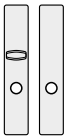
RD-S



RM-S



ED-S



RF-C



RA-D



RD-D



Transitions Series Trim Sets

RA-S



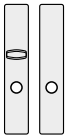
RD-S



RM-S



ED-S



RA-D



RD-D



RM-D



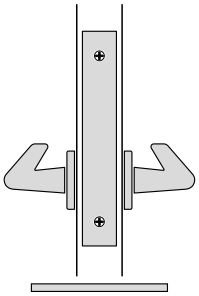
RS-D



Narrow Mortise Locks
Series NML and NMT Functions

Function Y

(Double Lever)
Active Dummy
Mortise Case

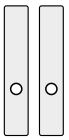


Straight Spindle

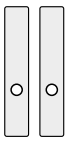
Description
Active dummy handle either side.



Premium and **Elements Series** Trim Sets

RA	RD	RF	RM	ED
				

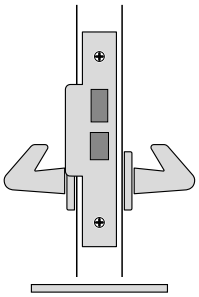
Transitions Series Trim Sets

RA	RD	RM	RS	ED
				

Function YS

(Double Lever)
Active Dummy
Mortise Case
Prepared as Strike

For Pairs of Doors



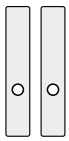
Straight Spindle

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

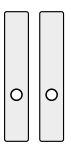
Strike regularly supplied with curved lip. (ANSI Standard A 115.1)



Premium and **Elements Series** Trim Sets

RA	RD	RF	RM	ED
				

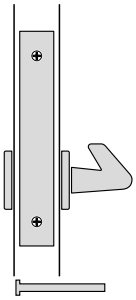
Transitions Series Trim Sets

RA	RD	RM	RS	ED
				

Narrow Mortise Locks
Series NML and NMT Functions

Function Z

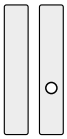
(Single Lever)
Active Dummy
Mortise Case



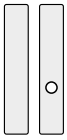
Description
Active dummy handle single side only with blind cover on opposing side.



Premium and **Elements Series** Trim Sets

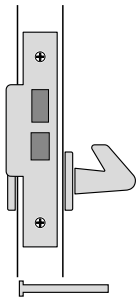
RA	RD	RF	RM	ED
				

Transitions Series Trim Sets

RA	RD	RM	RS	ED
				

Function ZS

(Single Lever)
Active Dummy
Mortise Case

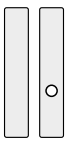


Description
Active dummy handle single side. Case front includes integrated strike and dust box to be utilized on inactive leaf.

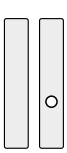
Strike regularly supplied with curved lip. (ANSI Standard A 115.1)



Premium and **Elements Series** Trim Sets

RA	RD	RF	RM	ED
				

Transitions Series Trim Sets

RA	RD	RM	RS	ED
				

Trim Set Overview
Series NML and NMT

RA
55mm Round



RD
65mm Round



RF
Oval



RM
55mm Square



RS
65mm Square



ED
Escutcheon

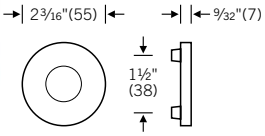


	Premium		Elements	Transitions	
Materials and Finishes	Stainless Steel	Bronze	Aluminum	Brass	
	6204 (630)	7305 (611)	0105 (628)	Plated Brass	Natural Brass
	6205 (629)	7615 (615)	0205	014 (618)	003 (605)
		7625 (613)	0410	015 (619)	004 (606)
			0510	026 (625)	10B (607)
			0710 (710)	03P (605)	
			0810 (711)		
			Powder Coated		

RA

17 1731 01401
Rose 2 3/16" (55 mm)

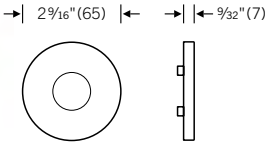




RD

17 1798 02401
Rose 2 9/16" (65 mm)

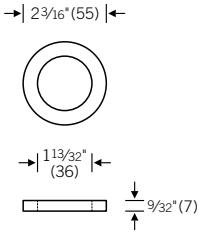




Cylinder Ring

17 1735 02601







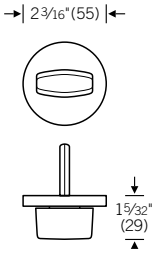
Cylinder must be ordered separately

Thumbturns for RA 55mm & **RD** 65mm Roses
Series NML and NMT

S

17 1744 00169
Standard Thumbturn







RA - Configuration
55mm S Thumbturn
55mm Lever Rose



RD - Configuration
55mm S Thumbturn
65mm Lever Rose

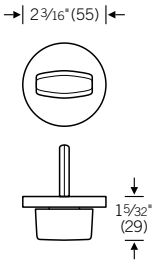
Standard Turn with Emergency Release (SN)

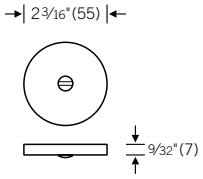
17 1744 00160

Trim Set - Includes two rose assemblies, spindle and screws









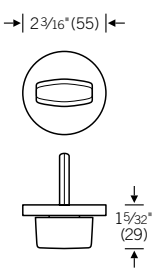
Standard Turn with Emergency Release and Indicator (SI)

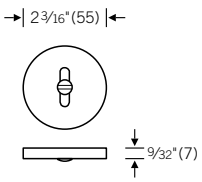
17 1744 00159

Trim Set - Includes two rose assemblies, spindle and screws







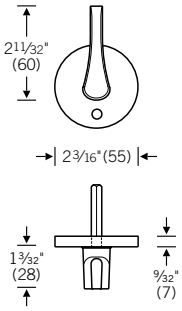


Thumbturns for RA 55mm & **RD** 65mm Roses
Series NML and NMT

D

17 1744 09169
ADA Thumbturn







RA - Configuration
55mm D Thumbturn
55mm Lever Rose



RD - Configuration
55mm D Thumbturn
65mm Lever Rose

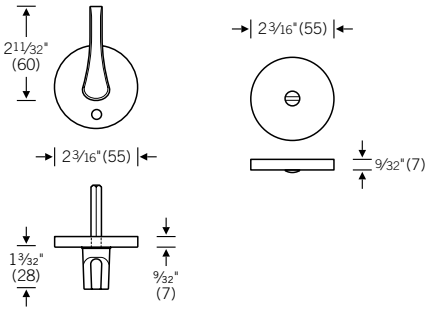
ADA Turn with Emergency Release (DN)

17 1744 09160

Trim Set - Includes two rose assemblies, spindle and screws







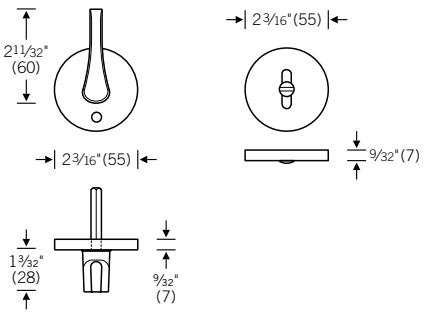
ADA Turn with Emergency Release and Indicator (DI)

17 1744 09159

Trim Set - Includes two rose assemblies, spindle and screws



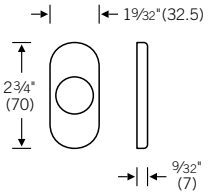




RF

17 1758 00001
Narrow Rose

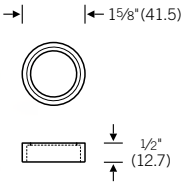




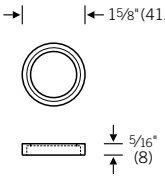
Cylinder Ring

03 0450 09000
03 0450 09001









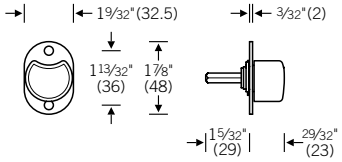


Cylinder must be ordered separately

C

03 0418 09001
Crescent Thumbturn





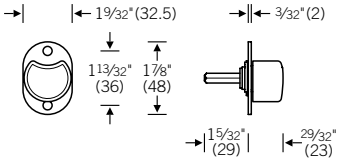
Crescent Turn with Emergency Release and Indicator (CI)

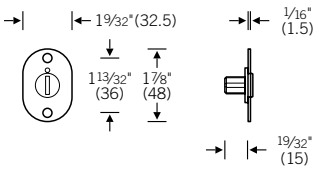
03 0418 09002

Trim Set - Includes two rose assemblies, spindle and screws







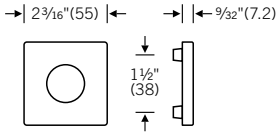


Square Lever Roses
Series NML and NMT

RM

17 1703 01401
Square Rose

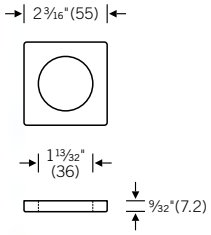




Cylinder Ring

17 1704 02601







Cylinder must be ordered separately

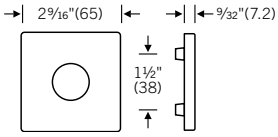
Transitions Series NMT only

RS

Designed to fit a 2 ⅛" bore

17 1705 01401
Square Rose



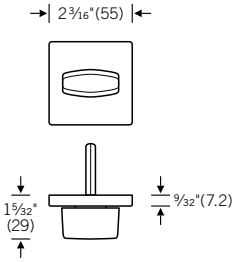


Thumbturns for RM 55mm & **RS** 65mm Square Roses
Series NML and NMT

S

17 1712 00169
Standard Thumbturn







RM - Configuration
55mm S Thumbturn
55mm Lever Rose



RS - Configuration
55mm S Thumbturn
65mm Lever Rose

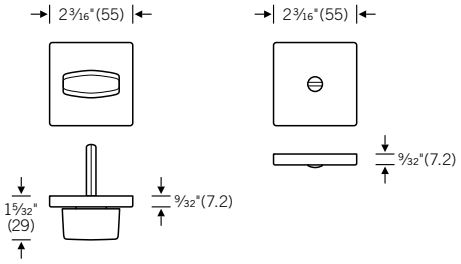
Standard Turn with Emergency Release (SN)

17 1712 00160

Trim Set - Includes two rose assemblies, spindle and screws







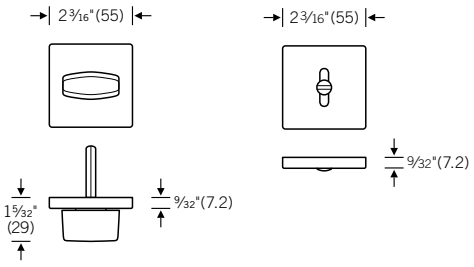
Standard Turn with Emergency Release and Indicator (SI)

17 1712 00159

Trim Set - Includes two rose assemblies, spindle and screws





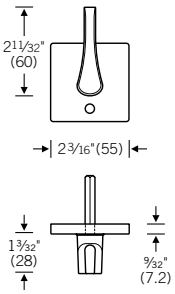


Thumbturns for RM 55mm & **RS** 65mm Square Roses
Series NMT

Transitions Only

D
17 1712 09169 ■
ADA Thumbturn







RM - Configuration
55mm D Thumbturn
55mm Lever Rose



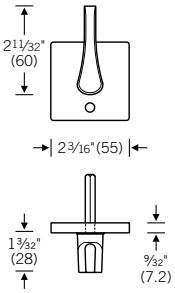
RS - Configuration
55mm D Thumbturn
65mm Lever Rose

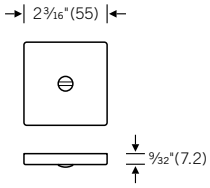
ADA Turn with Emergency Release (DN)
17 1712 09160 ■ Transitions Series Only

Trim Set - Includes two rose assemblies, spindle and screws







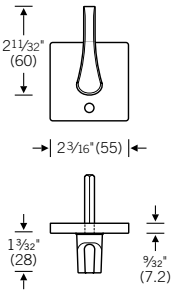


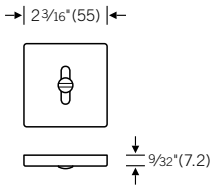
ADA Turn with Emergency Release and Indicator (DI)
17 1712 09159 ■ Transitions Series Only

Trim Set - Includes two rose assemblies, spindle and screws





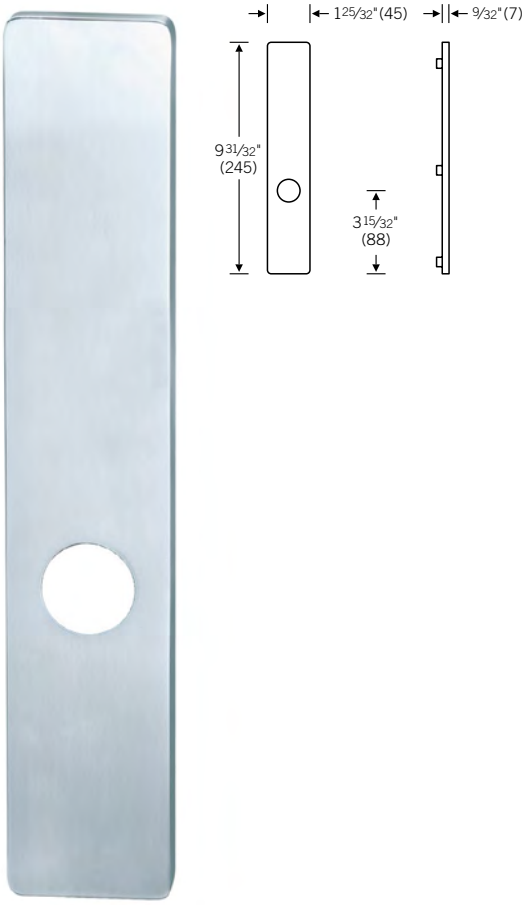




Trim Sets for ED Long Rectangular Escutcheon Plate
Series NML and NMT

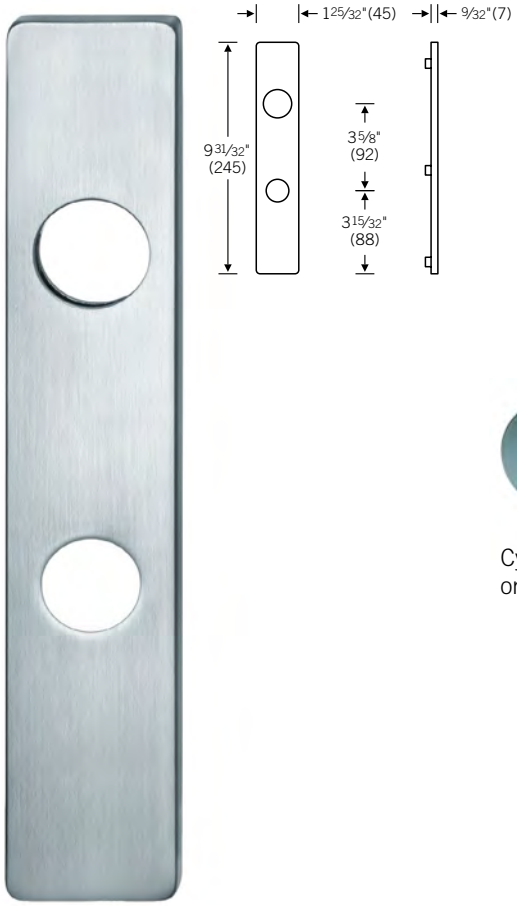
ED

14 1410 09100
9 5⁄8" (245 mm)



Cylinder Hole

14 1410 09101



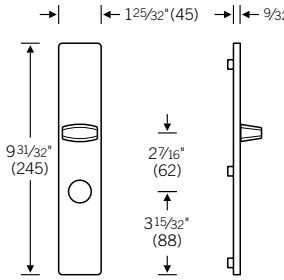


Cylinder must be ordered separately

S

14 1410 09102
Standard Thumbturn





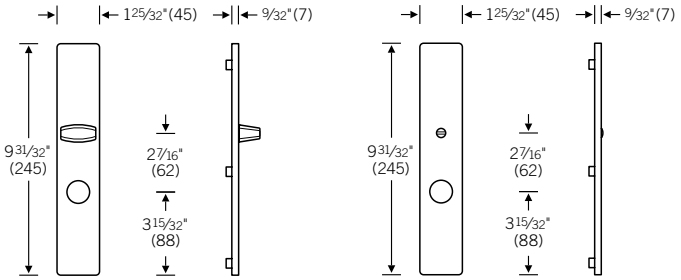
Standard Turn with Emergency Release (SN)

14 1410 09103

Trim Set - Includes two rose assemblies, spindle and screws







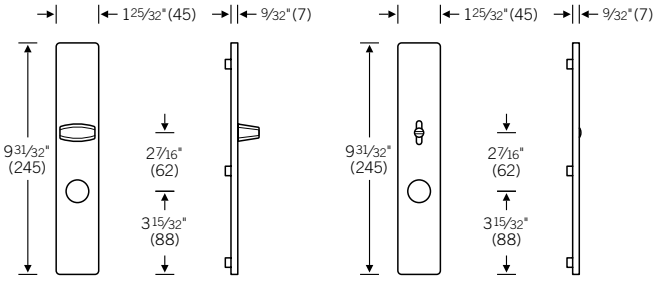
Standard Turn with Emergency Release and Indicator (SI)

14 1410 09113

Trim Set - Includes two rose assemblies, spindle and screws

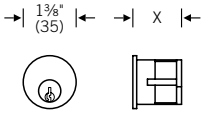






88 8806





88 8806 07165 Length X = 1"
88 8806 07185 Length X = 1⅛"
88 8806 07205 Length X = 1¼"
88 8806 07245 Length X = 1½"
88 8806 07285 Length X = 1¾"
88 8806 07325 Length X = 2"

FSB mortise cylinders are supplied (keyed differently) and are available in the 6 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" × 32 UNS.

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

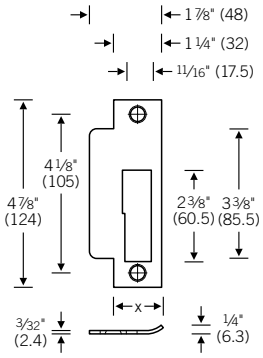
Cap Finishes
· US28 (matches FSB 0105) Aluminum Natural Color Anodized
· US10B Oil Rubbed Bronze
· US19 Flat Black
· US32 Polished Stainless Steel
· US32D Satin Stainless Steel

Cam Types
· SC19 (clover cam); used for all mortise locks

Trim	Door Thickness	Cylinder Length	Single Cylinder	Cylinder Length X2	Double Cylinder
All roses except RJ Call FSB for RJ Cyl Dimen.	1⅜"	1"	88 8806 7165sc19	N/A	N/A
	1¾"	1⅛"	88 8806 7185sc19	1"	88 8806 7165sc19
	2"	1¼"	88 8806 7205sc19	1⅛"	88 8806 7185sc19
	2¼"	1¼"	88 8806 7205sc19	1⅛"	88 8806 7185sc19
	2⅜"	1½"	88 8806 7245sc19	Call	
	3"	1¼"	88 8806 7285sc19	Call	
	3¼"	1⅞"	88 8806 7305sc19	Call	
	3½"	2"	88 8806 7325sc19	Call	
Escutcheons	1⅜"	N/A	N/A	N/A	N/A
	1¾"	1¼"	88 8806 7205sc19	1⅛"	88 8806 7185sc19
	2"	1¼"	88 8806 7205sc19	1⅛"	88 8806 7185sc19
	2¼"	1½"	88 8806 7245sc19	1¼"	88 8806 7205sc19
	2⅜"	1¾"	88 8806 7285sc19	Call	
	3"	1⅞"	88 8806 7305sc19	Call	
	3¼"	2"	88 8806 7325sc19	Call	

Note: For offset doors, all FSB trim is 7mm thick





NML 1001

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

Standard **N1** = 1¼" (32 mm)

NML 1001 99

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

* identify lip to center (x dimension) and specify mortise strike number

Mortise Strike Number	Lip To Center Dimension (x)	Typical Door Thickness*	ANSI Strike Type
N1	1¼"	1⅜" - 1¾"	Curved Lip (Std.)
N2	1⅛"	1½"	Curved Lip
N3	1⅜"	2"	Curved Lip
N4	1½"	2¼"	Curved Lip
N5	1¾"	2¾"	Curved Lip
N6	2"	3¼"	Curved Lip
N7	2¼"	3¼"	Curved Lip
N8	2½"	4¼"	Curved Lip
N9	2¾"	4¾"	Curved Lip
N10	3"	5¼"	Curved Lip
N11	1¾"	2¾"	Open Back
N12	2"	3¼"	Open Back
N13	2¼"	3¼"	Open Back

***Based on Lock centered in door**
Strikes are handed. Please specify hand.

Rabbeted Strikes

Standard - NRFS1
Traditional - NRFS2

Rabbeted depth 1/2" deep centered within the door.
Please specify lock number and door thickness.

For custom strikes, please call FSB.

Narrow Mortise Locks
Suggested Specification

All mortise locksets shall be provided from one manufacturer and shall be capable of providing backsets from 1½" to 2¼" backset using the same lever and trim designs from FSB North America.

All levers and trim design shall be capable of being suited to operate tubular and sliding door locks to maintain the design throughout the project. All locks and trim must be provided by the same manufacturer.

Certification:
ANSI A117.1 Accessibility Code, (formerly Title 19, California State Fire Marshal Standard) Lever handle trim.

All locks, levers, and trim shall be from one manufacturer.

All mechanical locksets shall carry a 10 year limited warranty.

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 mm 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 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 with plastic dust box. Flat lip, full lip, special length strikes and wrought dust boxes may be had on a special order basis.

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.

FSB Subrose

FSB ASL® Subrose



Product variants
– Roses RA, RD, RM and ED escutcheons
– All fixed levers with above trim

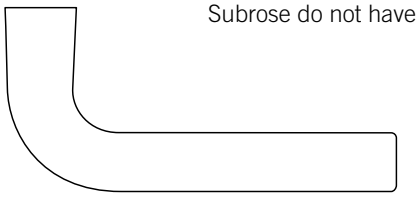
Adaptor
Base rose is screwed to the door leaf first, without the cover or the lever
Additionally, it is no longer necessary to “screw past” the handle shank.

Fasteners
Fastening by means of through-fixed bolting with retention lugs and machine screws.

Solid spindle
The 8 mm solid spindle caters to standard door thicknesses from 1⅜ to 2¼ inches.

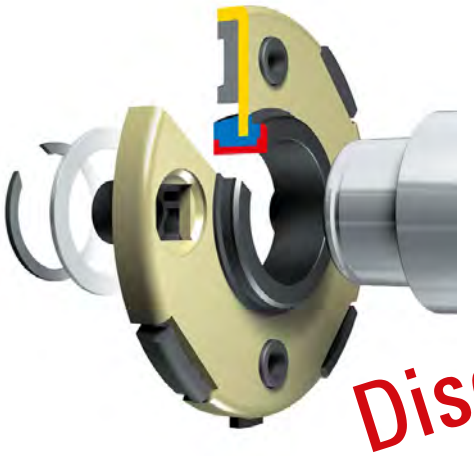
Availability
The new FSB ASL® will be supplied with all FSB North America locksets.

FSB ASL® Subrose
Levers used on the FSB ASL® Subrose do not have a neck.





FSB Original Subrose



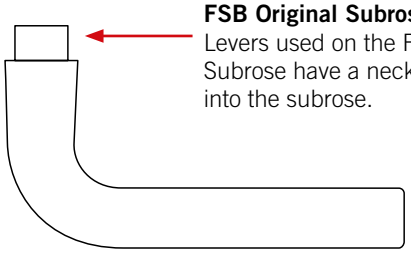
Product variants
– Roses RA, RD, RF, RM and ED escutcheons

Fasteners
Fastening by means of through-fixed bolting with retention lugs and machine screws.

Spindle
Solid and split spindles depending on lock type and function.

Discontinued

FSB Original Subrose
Levers used on the FSB Original Subrose have a neck that installs into the subrose.






FSB
Made in Germany

European Mortise Lock
EML Series

Quality

The FSB European Mortise Lock (EML) is a DIN 18251-1 Class 3 mortise lock manufactured in Germany. It is field reversible and available to accept a European style profile cylinder. This is a high end residential favorite in the US as it will fit an 1⅜" thick door.

Design Advantage

FSB has the widest selection of designer levers and trim in the industry. With more than 100 designer levers and trim that can be suited with our standard and narrow mortise locks, tubular locks, sliding door locks, sliding door hardware, and door pulls FSB will complement your design vision.

All details subject to modification

Specifying Locksets
European Mortise Locks (EML)

Lock Type	Lock Function	Lever Design	Trim Set	Thumbturn and Indicator
EML	**E**	**1147**	**RA**	**SN***

Lock Type

EML

Lock Function

E

Insert your choice of function using one of the letter codes below

A Store Door
B Dormitory
C Passage
E Privacy

European Mortise Locks do not have Emergency Egress Function.

Lever Design

1147

Insert your choice of lever design using one of the four digit codes.

Premium/Elements

1001*	**1078**
1002*	**1080**
1003	**1088**
1004	**1093**
1005	**1102**
1015	**1106**
1016	**1107**
1020*	**1108**
1021	**1119**
1023	**1134**
1025	**1144**
1027	**1146**
1028	**1147**
1031	**1160**
1034*	**1163**
1035	**1164**
1045	**1176**
1051*	**1177**
1053	**1178**
1057	**1183**
1058	**1185***
1070	**1241***
1074	**1251^**
1075	**1257***
1076	**1259***
1077*	

^ Stainless Only
* Elements Only

Trim Set

RA

Insert your choice of rose or escutcheon using one of the two digit codes.

Premium/Elements

RA Rose 2 3/16" (55 mm)
RF Narrow Rose
RJ Flush Rose (55 mm)
RM Square Rose (55 mm)
ED Long Rectangular

Trim sets are dependent on lock function. Not all trim sets are available for all functions. More details are provided on the lock function pages.

Thumbturn and Indicator

SN*

Insert your choice of thumbturn and indicator if necessary using the codes provided.

Premium, Elements



S Standard thumbturn available with roses and escutcheons

Premium, Elements
Emergency Releases



N



I

* Thumbturn and/or Indicator choices are only necessary with the B and E lock functions.

All details subject to modification

Example for Specifying

EML - E - 1147 - RA - SN - 6204 - 231 - E1 - RH - 134

Material and Finish

6204

Insert your choice of material and finish using one of the codes below.

Premium
Stainless Steel

6204 Satin (630)
6205 Polished (629)

Bronze

7305 Polished, Waxed (611)
7615 Aged, Waxed (615)
7625 Dark Oxidized, Waxed (613)

Elements
Aluminum Anodized

0105 Natural Color (628)
0205 Champagne Silver Color
0410 Bronze Color
0510 Medium Bronze Color
0710 Dark Bronze Color (710)
0810 Black Color (711)

Aluminum Powder Coated

8120 Black (671)
8220 White (714)

Note: EML mortise lock scalp only comes in stainless steel.

Backset

231

Standard

231 2 3/16" Backset (55 mm)

Other backsets available by quote.

Strike

E1

Insert your choice of strike using one of the two letter codes below

Standard

E1

Special Order

E2

Handing

RH

Insert your choice of hand using one of the two letter codes below

RH Right Hand
RR Right Hand Reverse

LH Left Hand
LR Left Hand Reverse

Door Thickness

134

Insert your choice of door thickness using one of the three digit codes.

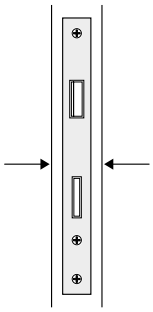
Standard

134 1¾"
138 1⅜"

Special Order

200 2"
214 2¼"

All sizes over 2¼" thick please consult FSB.



All details subject to modification

European Mortise Locks
Series EML Functions





Series EML

European Mortise Lock

Specifications
DIN Grade 3 Mortise Lock field reversible
PZ = 2 13⁄16" (72 mm) CTC
WC = 3 1⁄16" (78 mm) CTC

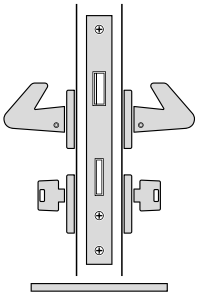
Backset
2 3⁄16" (55 mm) only

Strike
Curved lip (function specific) without dustbox.

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

Lock Scalp is only available in Stainless Finish

Function A
Store Door



Solid Spindle

Description
Latch bolt by handle either side.
Deadbolt by key either side.
European profile cylinder.
European levers come with set screw on the side.

Lever to cylinder center-to-center:
2 13⁄16" (72 mm).

Premium and **Elements Series** Trim Sets

RA



RF



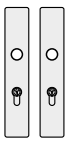
RM



RJ



ED

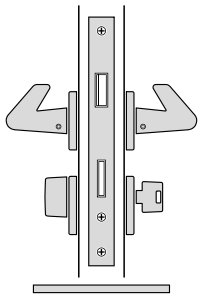


All details subject to modification

European Mortise Locks
Series EML Functions

Function B

Dormitory



Split Spindle

Description
Latch bolt by handle either side. Deadbolt by key outside and turnpiece inside.
European profile cylinder.
European levers come with set screw on the side.

Lever to thumbturn center-to-center:
2 13⁄16" (72 mm).

Premium and **Elements Series** Trim Sets

RA-S



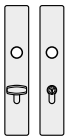
RM-S



RJ-S



ED-S

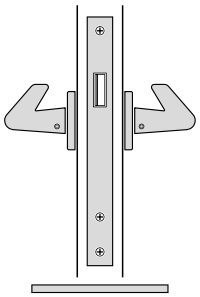


RF-C



Function C

Passage



Straight Spindle

Description
Latch bolt by handle either side.
European levers come with set screw on the side.

Premium and **Elements Series** Trim Sets

RA



RF



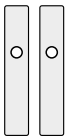
RM



RJ

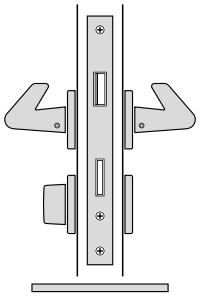


ED



Function E

Privacy



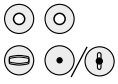
Straight Spindle

Description
Latch bolt by handle either side.
Deadbolt by emergency release outside and thumbturn inside connected by 8 mm spindle on the square.
European levers come with set screw on the side.

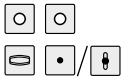
Lever to thumbturn center-to-center:
3 1⁄16" (78 mm).

Premium and **Elements Series** Trim Sets

RA-SN/SI



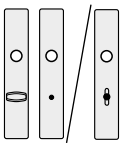
RM-SN/SI



RJ-SI



ED-SN/SI



RF-CI



All details subject to modification

Trim Set Overview
Series EML

RA
55mm Round



RF
Oval



RM
55mm Square



ED
Escutcheon



RJ
Flush



Materials and Finishes

Premium

- Stainless Steel
  - 6204 (630)
  - 6205 (629)
- Bronze
  - 7305 (611)
  - 7615 (615)
  - 7625 (613)

Elements

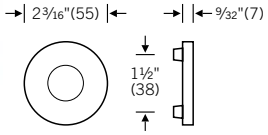
- Aluminum
  - 0105 (628)
  - 0205
  - 0410
  - 0510
  - 0710 (710)
  - 0810 (711)
  - Powder Coated

RA

12 1731 00101

Rose 2 3/16" (55 mm)



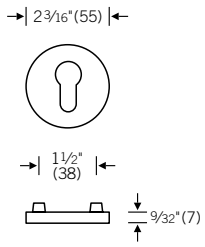


Cylinder Ring

17 1735 00210

Trim Set - Includes two rose assemblies and screws





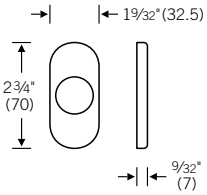


Cylinder must be ordered separately

RF

17 1758 00001

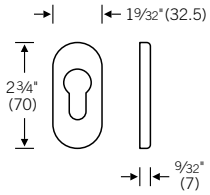




Cylinder Ring

17 1757 00010





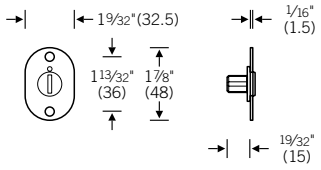


Cylinder must be ordered separately

I

Emergency Release with Indicator





Set with Crescent Thumbturn (**CI**) 03 0418 09002

Thumbturns for RA 55mm Rose
Series EML

S

17 1735 00210
Standard Thumbturn



Cylinder must be ordered separately





RA - Configuration
55mm S Thumbturn
55mm Lever Rose



RD - Configuration
55mm S Thumbturn
65mm Lever Rose

Standard Turn with Emergency Release (SN)

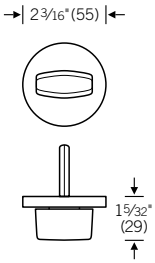
12 1735 x0054

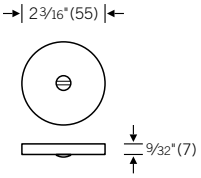
Trim Set - Includes two rose assemblies, spindle and screws

12 1735 10054 = 1 3⁄8" - 2" Door Thickness
12 1735 20054 = 2 1⁄8" - 2 3⁄4" Door Thickness
12 1735 30054 = 2 7⁄8" - 3 3⁄4" Door Thickness









Standard Turn with Emergency Release and Indicator (SI)

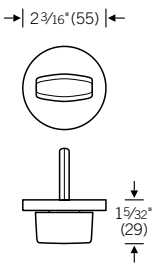
12 1735 x0055

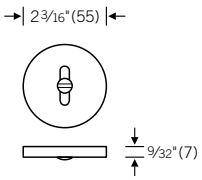
Trim Set - Includes two rose assemblies, spindle and screws

12 1735 10054 = 1 3⁄8" - 2" Door Thickness
12 1735 20054 = 2 1⁄8" - 2 3⁄4" Door Thickness
12 1735 30054 = 2 7⁄8" - 3 3⁄4" Door Thickness









All details subject to modification

Thumbturns for RM 55mm Square Rose
Series EML

S

17 1703 00210
Standard Thumbturn



Cylinder must be
ordered separately





RM - Configuration
55mm S Thumbturn
55mm Lever Rose



RS - Configuration
55mm S Thumbturn
65mm Lever Rose

EML

Standard Turn with Emergency Release (SN)

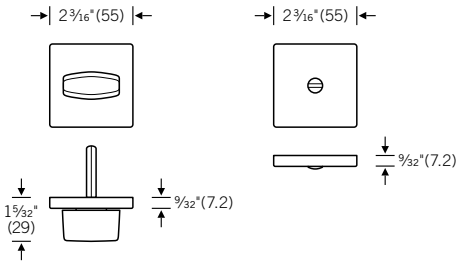
12 1704 x0054

Trim Set - Includes two rose assemblies, spindle and screws

12 1735 10054 = 1 3/8" - 2" Door Thickness
12 1735 20054 = 2 1/8" - 2 3/4" Door Thickness
12 1735 30054 = 2 7/8" - 3 3/4" Door Thickness







Standard Turn with Emergency Release and Indicator (SI)

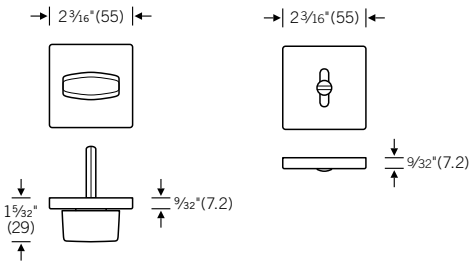
12 1704 x0055

Trim Set - Includes two rose assemblies, spindle and screws

12 1735 10054 = 1 3/8" - 2" Door Thickness
12 1735 20054 = 2 1/8" - 2 3/4" Door Thickness
12 1735 30054 = 2 7/8" - 3 3/4" Door Thickness







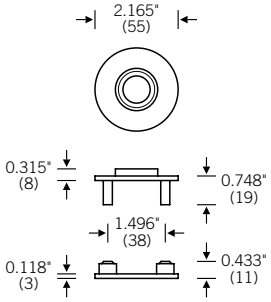
All details subject to modification

Trim Set RJ Flush Rose
European Mortise Locks (EML)

RJ

17 1736 09011
0.118 × 2.165" (3 × 55 mm)
Trim only sold in Sets
(Includes two rose assemblies, spindle and screws)

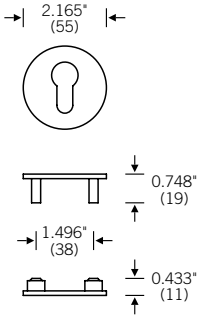




Cylinder Ring

17 1737 09002
0.118 × 2.165" (3 × 55 mm)
Trim only sold in Sets
(Includes two rose assemblies, spindle and screws)







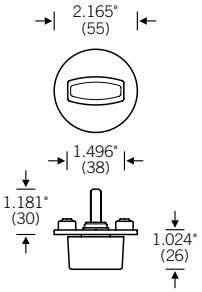
Cylinder must be ordered separately

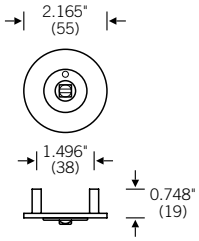
SI

17 1737 09020
Standard Thumbturn and Emergency Release with Indicator
Trim only sold in Sets - Set with Standard Thumbturn (**SI**) 17 1737 09020 (Includes two rose assemblies, spindle and screws)









RJ trim cannot be purchased independently from lockset.
Trim number for reference only.

RJ trim is available for 1¾" door thickness only.

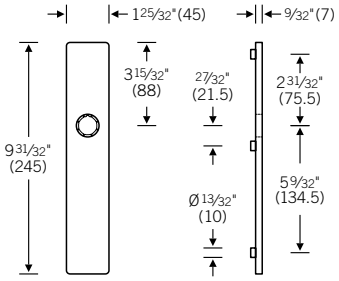
The following lever designs are not available with the RJ Flush Rose:
1051, 1058, 1163, 1164, 1241

All details subject to modification

ED

14 1410 08101
9 31/32" (245 mm)

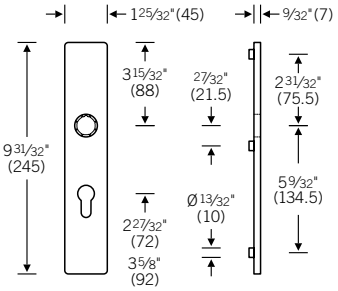




Cylinder Hole

14 1410 08110





Cylinder

8812
Profile Cylinder used on A and B Functions.
Cylinder must be ordered separately



All details subject to modification

Trim Set ED Long Rectangular Escutcheon Plate
European Mortise Locks (EML)

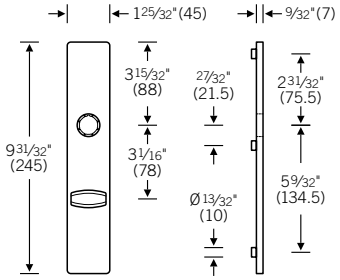
S

Standard Thumbturn



Cylinder must be ordered separately



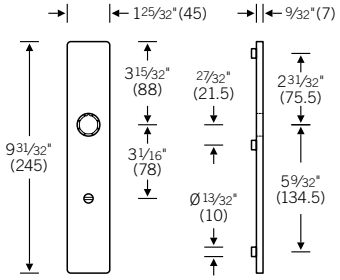


Standard Turn with Emergency Release (SN)

14 1410 08055

Trim Set - Includes two rose assemblies, spindle and screws



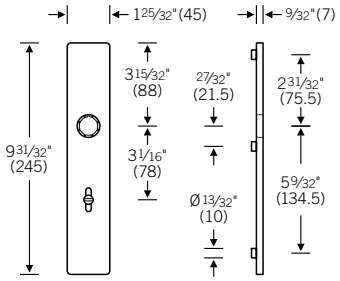


Standard Turn with Emergency Release and Indicator (SI)

14 1410 08054

Trim Set - Includes two rose assemblies, spindle and screws





All details subject to modification

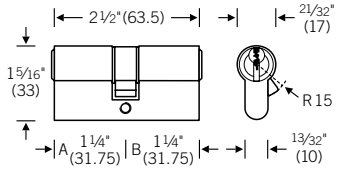
European Mortise Locks
European Profile Cylinder (PZ)

88 8812 00064
88 8812 00070

88 8812 00064 = 63.5 mm for 1⅜ – 1¾" door thickness
88 8812 00070 = 71 mm for 2 – 2¼" door thickness

Key × Key



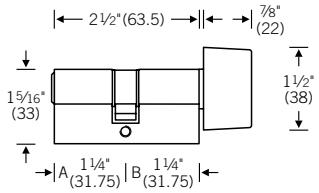


88 8812 00164
88 8812 00170

88 8812 00164 = 63.5 mm for 1⅜ – 1¾" door thickness
88 8812 00170 = 71 mm for 2 – 2¼" door thickness

Key × Thumbturn (Standard)



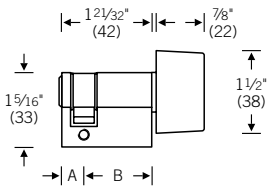


88 8812 00230
88 8812 00235

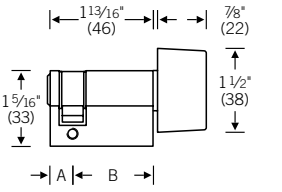
88 8812 00230 = 42 mm Cylinder Length (1 21/32")
for 1⅜ – 1¾" door thickness
88 8812 00235 = 46 mm Cylinder Length (1 13/16")
for 2 – 2¼" door thickness

½ Cylinder Thumbturn (Standard) only





A = 13/32"(10); B = 1¼"(31.75)



A = 13/32"(10); B = 1 13/32"(35.75)

Door thickness based on 7 mm rose/escutcheon

Keyway
"C-type" 5 pin on each side and are supplied keyed different as standard. May be master keyed on special request.

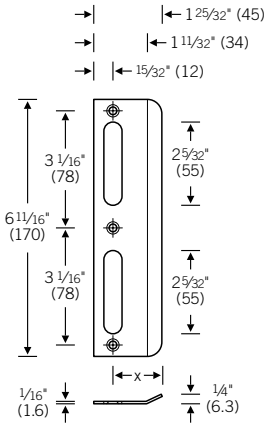
Keys
Nickel plated brass, supplied with two keys per cylinder.

Cylinder Finish
Stainless Steel, Dark Bronze Color

Thumbturn and Finishes
- Standard turnpiece
- US28 (matches FSB 0105) Aluminum Natural Color Anodized
- US32D (matches FSB 6204) Satin Stainless Steel

All details subject to modification





EML 1001

EML Series Mortise Strike without dustbox

Entry/Privacy Functions

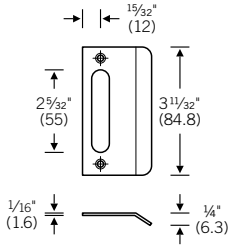
Standard = 1 5/16" (33 mm)

EML 1001 99

EML Series Extended Lip*
Mortise Strike without dustbox

* Identify lip to center (x dimension) specify mortise strike number





EML 1002

EML Series Mortise Strike without dustbox

Passage Function

All details subject to modification

FSB Subrose

FSB ASL® Subrose



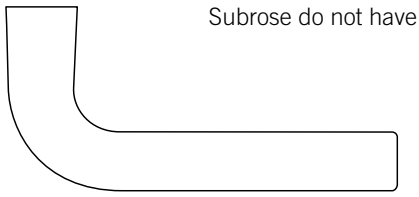
Product variants
– Roses RA, RD, RM and ED escutcheons
– All fixed levers with above trim

Adaptor
Base rose is screwed to the door leaf first, without the cover or the lever
Additionally, it is no longer necessary to “screw past” the handle shank.

Fasteners
Fastening by means of through-fixed bolting with retention lugs and machine screws.

Solid spindle
The 8 mm solid spindle caters to standard door thicknesses from 1⅜ to 2¼ inches.

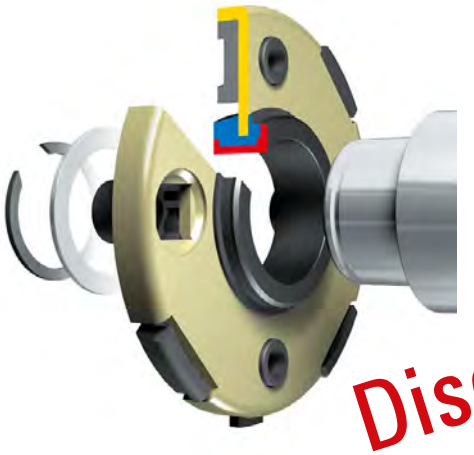
Availability
The new FSB ASL® will be supplied with all FSB North America locksets.



FSB ASL® Subrose
Levers used on the FSB ASL® Subrose do not have a neck.



FSB Original Subrose

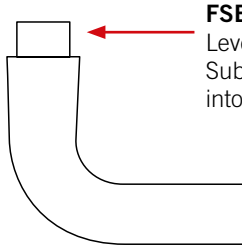


Product variants
– Roses RA, RD, RF, RM and ED escutcheons

Fasteners
Fastening by means of through-fixed bolting with retention lugs and machine screws.

Spindle
Solid and split spindles depending on lock type and function.

Discontinued



FSB Original Subrose
Levers used on the FSB Original Subrose have a neck that installs into the subrose.



All details subject to modification

European Mortise Locks
Suggested Specification

All mortise locksets shall be provided from one manufacturer and capable of accepting a European profile cylinder using the same lever and trim designs from FSB North America.

All levers and trim design shall be capable of being suited to operate Standard and narrow style mortise locks, tubular locks, and sliding door locks to maintain the design through out the project. All locks and trim must be provided by the same manufacturer.

Certification:
DIN 18251-1 Class 3

All locks, levers, and trim shall be from one manufacturer.

Locks have a 5 year limited warranty.

Faceplate (Scalp)
9¼" × 15⁄16" (235 × 24 mm).
Satin stainless steel fixed to front of lock case.

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

Deadbolt
.315" × 1.38" (8 × 35 mm) ×
.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).

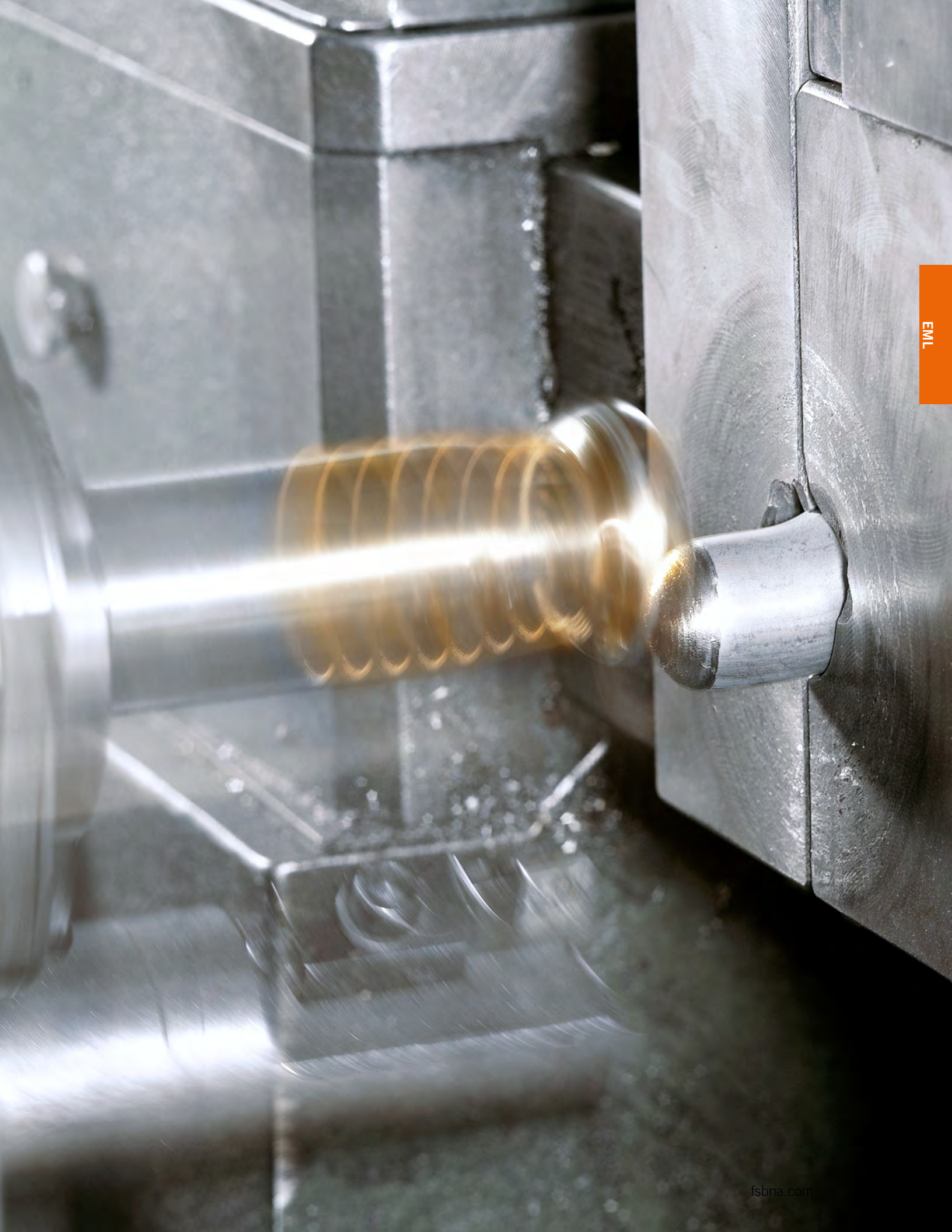
Spacing
2.83" (72 mm) center hub to center cylinder,
3.07" (78 mm) center lever hub to thumbturn hub.

Through-bolting
1.5" (38 mm) center to center.

Strike
Curved lip strike for hollow metal and wood frame construction without dust box. See drawings for dimensions.
Flat lip, special length strikes, and wrought dust boxes may be had on a special order basis.

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

All details subject to modification





Heavy Duty Lever Latch
HLL & HLT Series

Quality

The FSB latch is a high quality, heavy duty tubular latch manufactured to meet stringent quality standards. This series is designed to work with a vast array of FSB lever handle designs. Built using a heavy-gauge die cast case, the latch features high strength steel compression springs for long life and durability.

The FSB HLT series latches have surpassed over 400,000 operating cycles. Applications include high-end residential, hospitality, retail, and office buildings.

The latch is backed by a 3 year limited warranty.

Design Advantage

FSB has the widest selection of designer levers and trim in the Industry. With more than 100 lever and trim designs that can be suited with our standard, narrow style and European mortise locks, sliding door locks, sliding door hardware, and door pulls we will complement your design vision.

All details subject to modification

Specifying Tubular Latch Sets

(HLL) Available with Premium and Elements Series Trim
(HLT) Available with Transitions Series Trim

Lock Type

HLL

Insert your choice of Lock Type.

HLL
Premium Elements

Lock and Latch Function

C

Insert your choice of function using one of the letter codes below

CU UL Passage
C Passage
E Privacy

Y Fixed Back to Back
Z Fixed Single

Lever Design

1147

Insert your choice of lever design using one of the four digit codes.

Premium/Elements

1001*	**1051***	**1119**
1002*	**1053^**	**1134**
1003+	**1057^**	**1144**
1004	**1058**	**1146**
1005	**1070**	**1147**
1015^	**1074+**	**1160**
1016	**1075**	**1163^**
1020*	**1076**	**1164**
1021	**1077***	**1176**
1023^	**1078**	**1177**
1025	**1080**	**1178**
1027	**1088**	**1183+**
1028	**1093**	**1185***
1031	**1102**	**1241***
1034*	**1106^**	**1251**
1035	**1107**	**1257***
1045	**1108**	**1259***

^ Due to weight, only bronze levers 1015, 1020, 1023, 1053, 1057, 1106, 1163 can be used for HLL Series
* Elements only
+ Levers 1003, 1074, 1183 not available with E Function

Trim Set

RA

Insert your choice of rose or escutcheon using one of the letter codes.

Premium/Elements

RA Rose 2 3/16" (55 mm)
RD Rose 2 9/16" (65 mm)
RF Narrow Rose
RJ Flush Rose (55 mm)
RM Square Rose (55 mm)
RS Square Rose* 2 9/16" (65 mm) (Covers 2 1/8" bore)
ED Long Rectangular

Trim sets are dependent on lock function. Not all trim sets are available for all functions. More details are provided on the lock function pages.
* Elements only

HLT

Transitions

Transitions

1035	**1250**
1058	**1251**
1075	**1252**
1076	**1253**
1241	

Transitions

RA Hard Edge Rose 2 3/16" (55 mm)
RD Rose 2 9/16" (65 mm) (Covers 2 1/8" bore)
RM Square Rose 2 3/16" (55 mm)
RS Square Rose 2 9/16" (65 mm) (Covers 2 1/8" bore)
ED Long Rectangular

Example for Specifying

HLL - C - 1147 - RA - 6204 - 238 - T1 - 134

Material and Finish

6204

Insert your choice of material and finish using one of the codes below.

Premium
Stainless Steel

6204 Satin (630)
6205 Polished (629)

Bronze

7305 Polished, Waxed (611)
7615 Aged, Waxed (615)
7625 Dark Oxidized, Waxed (613)

Elements
Aluminum Anodized

0105 Natural Color (628)
0205 Champagne Silver Color
0410 Bronze Color
0510 Medium Bronze Color
0710 Dark Bronze Color (710)
0810 Black Color (711)

Aluminum Powder Coated

8120 Black (671)
8220 White (714)

Transitions
Plated

014 Polished Nickel (618)
015 Satin Nickel (619)
026 Polished Chrome (625)
03P Polished Brass PVD (605)

Natural

003 Polished Brass (605)
004 Satin Brass (606)
10B Satin Brass Dark Oxidized (607)

Backset

238

Insert your choice of backset using one of the three digit codes below

Standard

238 2⅜" Backset
234 2¾" Backset

Strike

T1

Insert your choice of strike using one of the codes below

Standard

T1

Special Order

T2 **T13**
T3 **T14**
T4 **T15**
T5 **T16**
T6 **T17**
T7 **T18**
T8 **T19**
T9 **T20**
T10 **T21**
T11 **T22**
T12

Door Thickness

134

Insert your choice of door thickness using one of the three digit codes.

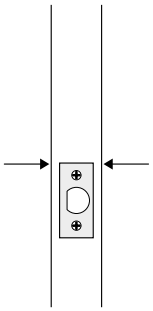
Standard

134 1¾"
138 1⅜"

Special Order

200 2"
214 2¼"

All sizes over 2¼" thick please consult FSB.



Heavy Duty Lever Latch
Series HLL and HLT Functions



Series HLL

Heavy Duty Lever Latch
Passage only

Latch
All HLL and HLT use the same Latch.

Specifications
Field reversible with adjustable bevel.

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

Strike
Universal curved lip T-Strike with dustbox.
See page 199 for other strike options.

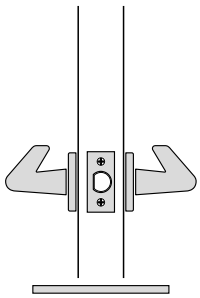
Faceplates
Faceplate width 1" (25.4 mm) for minimum 1 3/8" (35 mm) door thickness.
Faceplate width 1 1/8" (28.5 mm) optional.

CU Function comes with 1 1/8" (28.5 mm) width as standard.

Function CU

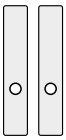
UL Rated Passage

Description
Latch bolt by handle either side.



Solid Spindle

Premium and **Elements Series** Trim Sets

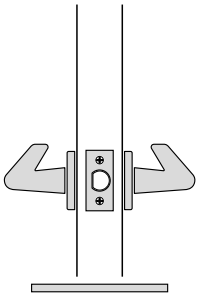
RA	RD	RF	RM	RJ	ED
					

All details subject to modification

Heavy Duty Lever Latch
Series HLL and HLT Functions

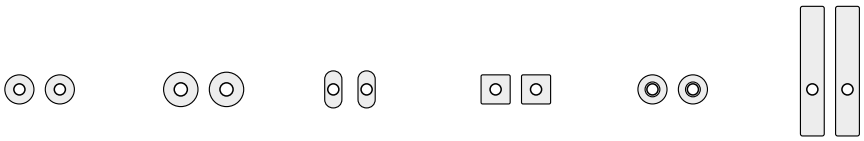
Function C
Passage

Description
Latch bolt by handle either side.


Solid Spindle

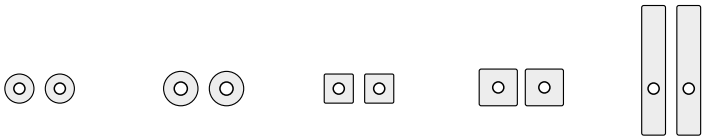
Premium and **Elements Series** Trim Sets

RA **RD** **RF** **RM** **RJ** **ED**

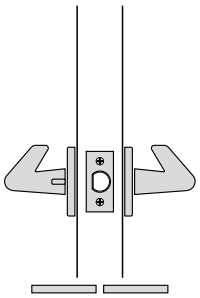


Transitions Series Trim Sets

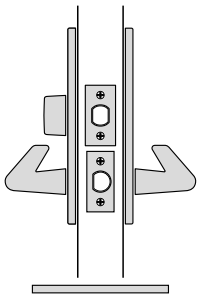
RA **RD** **RM** **RS** **ED**



Function E
Privacy



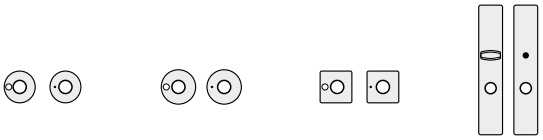
Description
Latch bolt by handle either side. Outside handle locked by push button inside. Outside handle unlocked by retracting inside handle, emergency release tool, or closing the door.



Description
Latch bolt by handle either side. Deadbolt by thumbturn inside and emergency release outside.

Premium and **Elements Series** Trim Sets

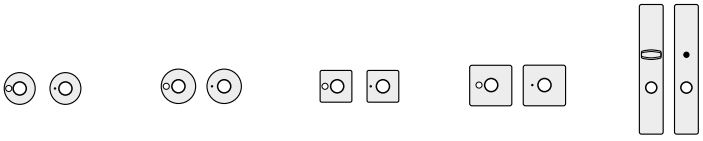
RA **RD** **RM** **ED**



Note: ED trim is provided as a stacked set with a tubular passage set and thumbturn deadbolt with emergency release. Function E is not available with 1003, 1074, 1183 Levers.

Transitions Series Trim Sets

RA **RD** **RM** **RS** **ED**



All details subject to modification

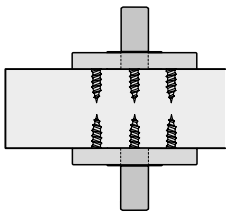
Heavy Duty Lever Latch
Series HLL and HLT Functions

Function Y
Fixed Back to Back Dummy

Trim Sets

RA **RM**





Surface mounted subroses.

05 0423 00402



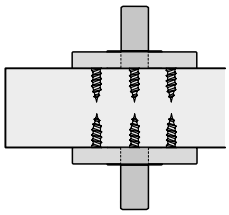
Set includes two dummy mount subroses, one pair of 2 3/16" (55 mm) roses and two levers.

Trim Sets

RD **RS**



For Elements and Transitions Series only



Surface mounted subroses.

05 0423 00701

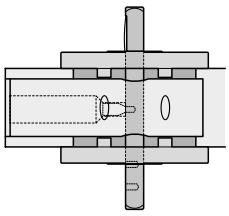


Set includes two dummy mount subroses, one pair of 2 9/16" (65 mm) roses and two levers.

Trim Sets

RF





Through bolted mounting with 1" Ø edge borehole.

05 0423 00500



Set includes one borelock, one straight spindle, one pair of narrow roses and two levers. Supplied with blank faceplate to cover edge borehole.

Minimum door thickness 1¾"

All details subject to modification

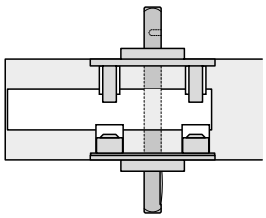
Function Y

Fixed Back to Back Dummy

Trim Sets

RJ





Through bolted mounting with ¾" Ø borehole.

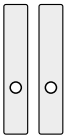
05 0423 00110

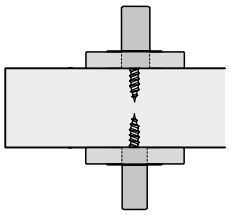


Set includes one mount bar, one straight spindle, one pair of 2³⁄₁₆" (55 mm) flush roses and two levers. Supplied with blank faceplate to cover edge borehole.

Trim Sets

ED





Surface mounted subplates.

05 0423 00800



Set includes two dummy mount sub-plates, two lever only escutcheons and two levers.

All details subject to modification

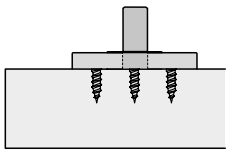
Function Z

Fixed Single Dummy

Trim Sets

RA **RM**





Surface mounted subrose.

05 0423 00402



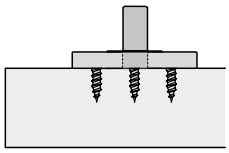
Set includes one dummy mount subrose, one 2 3/16" (55 mm) rose, and one lever.

Trim Sets

RD **RS**



For Elements and Transitions Series only



Surface mounted subrose.

05 0423 00701

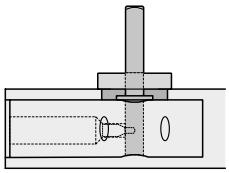


Set includes one dummy mount subrose, one 2 9/16" (65 mm) rose and one lever.

Trim Sets

RF





Single sided with 1" Ø edge borehole.

05 0423 00500





Set includes one borelock, one half spindle (05 0423 00501), one narrow rose and one lever. Supplied with blank faceplate to cover edge borehole.

Minimum door thickness 1¾"

All details subject to modification

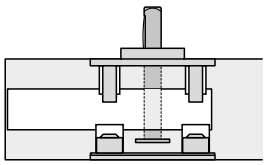
Function Z

Fixed Single Dummy

Trim Sets

RJ





Single sided with ¾" Ø edge borehole and blank rose.

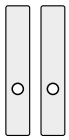
05 0423 00110

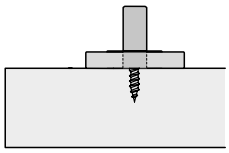


Set includes one mount bar, one half spindle, one pair of 2³⁄₁₆" (55 mm) flush roses and two levers. Supplied with blank faceplate to cover edge borehole.

Trim Sets

ED





Surface mounted subplate.

05 0423 00800



Set includes one dummy mount subplate, one escutcheon and one lever.

All details subject to modification

Trim Set Roses
Series HLL and HLT

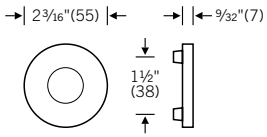
Set with privacy pin



RA

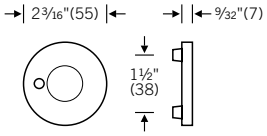
17 1731 01401
Rose 2 3/16" (55 mm)





17 1731 00154 Right Hand
17 1731 00155 Left Hand
Privacy Roses 2 3/16" (55 mm)



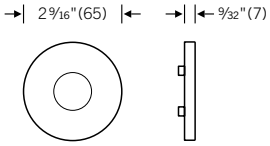


RD

Designed to fit a 2 1/8" bore

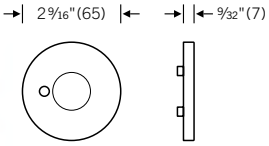
17 1798 01401
Rose 2 9/16" (65 mm)





17 1798 00154 Right Hand
17 1798 00155 Left Hand
Privacy Roses 2 9/16" (65 mm)

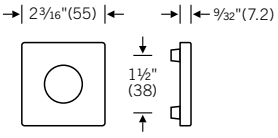




RM

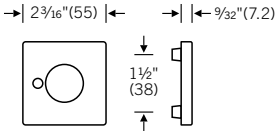
17 1703 01401
Square Rose





17 1703 00154 Right Hand
17 1703 00155 Left Hand
Privacy Roses 2 3/16" (55 mm)



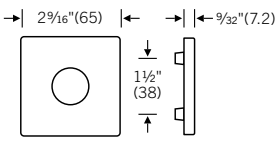


RS

Designed to fit a 2 1/8" bore

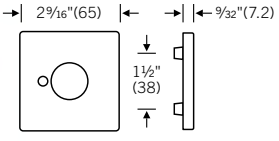
17 1705 01401
Square Rose





17 1705 00154 Right Hand
17 1705 00155 Left Hand
Privacy Roses 2 9/16" (65 mm)



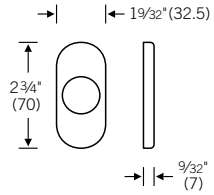


All details subject to modification

Trim Sets Escutcheon Plates
Series HLL and HLT

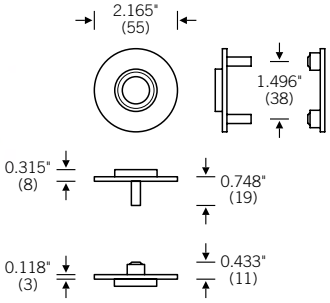
RF
17 1758 00001
Narrow Rose





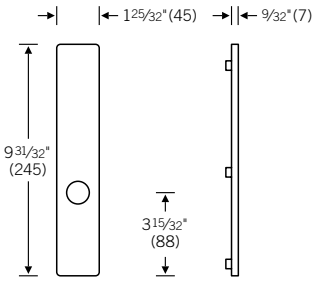
RJ
17 1736 09011
0.118 × 2.165" | 3 × 55 mm, 1¾" door thickness only.
Levers 1051, 1058, 1163, 1164, 1241 not available with RJ trim.





ED
14 1410 09100
9 5/8" (245 mm)



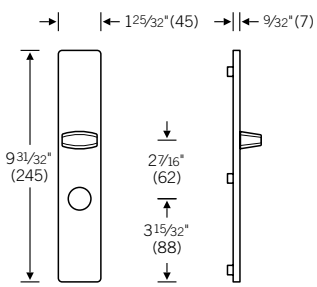


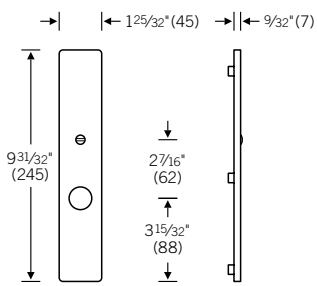
Standard Turn with Emergency Release (SN)
14 1410 09103

Trim Set - Includes two rose assemblies, spindle and screws







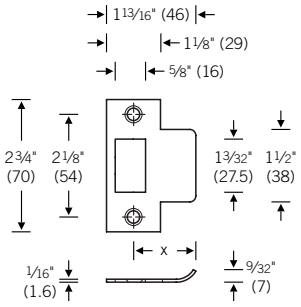


HLL & HLT

All details subject to modification

HLL Tubular Latch Strikes



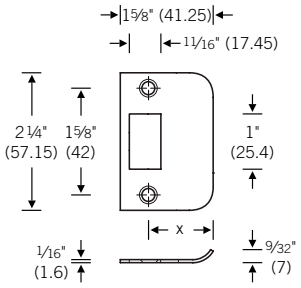


HLL 1001

HLL Series Strike with dustbox

Standard **T1** = 1 1/4"



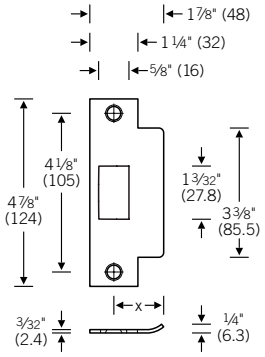


HLL 1003

HLL Series Strike with dustbox

T23 = 1 1/4"





HLL 1002

HLL Series Strike (ANSI/ASA Strike) with dustbox

T14 = 1 1/4"

Tubular Strike Number	Lip To Center Dimension	Strike Type
T1	1 1/4"	"T" Curved Lip
T2	1"	"T" Curved Lip
T3	1 1/8"	"T" Curved Lip
T4	1 3/8"	"T" Curved Lip
T5	1 1/2"	"T" Curved Lip
T6	1 3/4"	"T" Curved Lip
T7	2"	"T" Curved Lip
T8	2 1/4"	"T" Curved Lip
T9	2 1/2"	"T" Curved Lip
T10	2 3/4"	"T" Curved Lip
T11	3"	"T" Curved Lip

Tubular Strike Number	Lip To Center Dimension	Strike Type
T12	1"	ANSI Curved Lip
T13	1 1/8"	ANSI Curved Lip
T14	1 1/4"	ANSI Curved Lip
T15	1 3/8"	ANSI Curved Lip
T16	1 1/2"	ANSI Curved Lip
T17	1 3/4"	ANSI Curved Lip
T18	2"	ANSI Curved Lip
T19	2 1/4"	ANSI Curved Lip
T20	2 1/2"	ANSI Curved Lip
T21	2 3/4"	ANSI Curved Lip
T22	3"	ANSI Curved Lip
T23	1 1/4"	"D" Full Lip

All details subject to modification

FSB Subrose

FSB ASL® Subrose



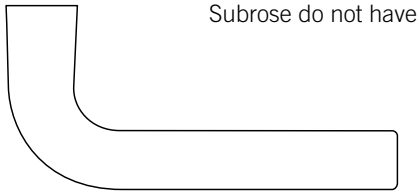
Product variants
– Roses RA, RD, RM and ED escutcheons
– All fixed levers with above trim

Adaptor
Base rose is screwed to the door leaf first, without the cover or the lever
Additionally, it is no longer necessary to “screw past” the handle shank.

Fasteners
Fastening by means of through-fixed bolting with retention lugs and machine screws.

Solid spindle
The 8 mm solid spindle caters to standard door thicknesses from 1⅜ to 2¼ inches.

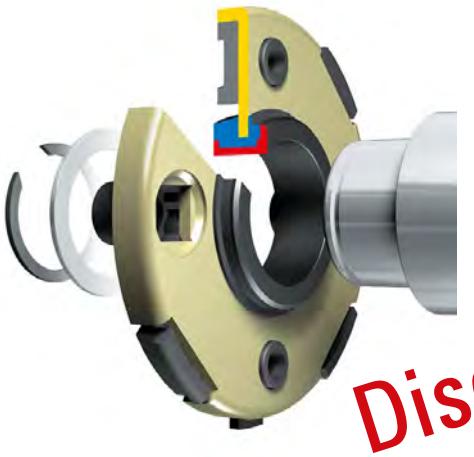
Availability
The new FSB ASL® will be supplied with all FSB North America locksets.



FSB ASL® Subrose
Levers used on the FSB ASL® Subrose do not have a neck.



FSB Original Subrose

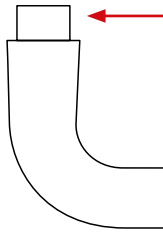


Product variants
– Roses RA, RD, RF, RM and ED escutcheons

Fasteners
Fastening by means of through-fixed bolting with retention lugs and machine screws.

Spindle
Solid and split spindles depending on lock type and function.

Discontinued



FSB Original Subrose
Levers used on the FSB Original Subrose have a neck that installs into the subrose.



HLL & HLT

All details subject to modification

Tubular Latches
Suggested Specification

HLL 7010 Passage

UL Listing
3 Hour rated by Underwriters Laboratories, Inc.
UL File No. R16617

Steel Case
Size varies according to backset.
Heavy gauge .030" (.76 mm) thick, Stainless Steel.

Latch Front and Faceplate
1 ⅛" × 2 ¼" (28.5 × 57 mm).
Wrought stainless steel, satin finish.
Adjustable for beveled conditions from flat to standard bevel ⅛" on 2" (3 on 51 mm).

Latch Bolt
½" (12.7 mm) throw.
One-piece solid brass, nickel finish.
Field reversible.

Hub
.315 (8 mm) square, solid brass with one way, 28° degree rotation for levers.

Door Thickness
1 ¾" - 2 ¼" (45 - 57 mm) Standard

Backsets
2 ⅜" (60 mm), 2 ¾" (70 mm).

Strike
2 ¾" × 1 ¼" (70 × 32 mm) lip to center.
Wrought stainless steel, satin finish.
Regularly furnished with universal curved lip T-Strike with black plastic dust box.
Flat lip, full lip, special length strikes and wrought dust boxes available on a special order basis.

HLL/HLT 7230 Passage
HLL/HLT 7240 Privacy

All heavy duty tubular latchsets shall be series HLL/HLT provided by FSB North America, Berlin, CT.

Latches shall have either a 2 ¾" (70 mm) or 2 ⅜" (60 mm) backset and be non-handed.
Latches shall have unidirectional hubs for levers.
Strikes shall be curved lip, non-handed.

Lever and trim designs shall be capable of being suited to operate standard, narrow style and European mortise locks, and sliding lever locks to maintain the design throughout the project. All locks and trim must be provided by the same manufacturer.

All heavy duty tubular latchsets shall carry a 3 year limited warranty.

Steel Case
Size varies according to backset. Heavy gauge die cast alloy.

Latch Front and Faceplate
1" × 2 ¼" (25.4 × 57 mm) Standard
1 ⅛" x 2 ¼" (28.5 x 57 mm) Optional Stainless steel or brass, finished to match.

Latch Bolt
½" (12 mm) throw.
One-piece, satin nickel or satin brass finish.
Field reversible.

Hub
.315" (8 mm) square, with one way, 28° degree rotation for levers.

Door Thickness
1 ⅜" – 2 ¼" (35 – 57 mm) Standard

Backsets
2 ⅜" (60 mm), 2 ¾" (70 mm).

Strike
2 ¾" × 1 ¼" (70 × 32 mm) lip to center.
Wrought stainless steel or brass, finished to match. Regularly furnished with universal curved lip T-Strike with black plastic dust box. Flat lip, full lip, special length strikes and wrought dust boxes available on a special order basis.

All details subject to modification



Tubular Deadbolts
HDD/HDT and KDD/KDT Series

Deadbolt Series HDD/HDT and KDD/KDT

The FSB deadbolt is a high quality, heavy duty tubular deadbolt manufactured to meet stringent quality standards. This series is designed to work with a wide selection of FSB trim designs. Applications include high-end residential, hospitality, retail, and office buildings.

The deadbolt is backed by a 3 year limited warranty.

Design Advantage

FSB has the widest selection of designer levers and trim in the industry. With more than 100 lever and trim designs that can be suited with our standard, narrow style and European mortise locks, sliding door locks, sliding door hardware, and door pulls we will complement your design vision.

Specifying Deadbolts
Deadbolt Series HDD/HDT

Deadbolt Type

HDD

Insert your choice of Lock Type.

HDD

Premium
Elements

HDT

Transitions

Lock and Latch Function

S

Insert your choice of function using one of the letter codes below.

R Thumbturn Deadbolt
S Thumbturn Deadbolt with Emergency Release

Trim Set

RA

Insert your choice of rose using one of the two letter codes below.

Premium/Elements

RA Rose 2 3/16" (55 mm)
RF Narrow Rose
RJ Flush Rose (55 mm)
RM Square Rose
ED Long Rectangular

Trim sets are dependent on lock function. Not all trim sets are available for all functions. More details are provided on the lock function pages.

Transitions

RA Rose 2 3/16" (55 mm)
RM Square Rose (55 mm)
ED Long Rectangular

Thumbturn and Indicator

SN

Insert your choice of thumbturn using the codes provided.

Premium/Elements


S Standard thumbturn available with roses and escutcheons


D ADA thumbturn available with RA roses only


C Crescent thumbturn available with RF Trim only

Premium, Elements and Transitions
Emergency Releases


N


I

Transitions


Standard thumbturn available with all roses and escutcheons


ADA thumbturn available with roses only

Example for Specifying

HDD - S - RA - SN - 6204 - 238 - 134

Material and Finish

6204

Insert your choice of material and finish using one of the codes below.

Premium
Stainless Steel

- **6204** Satin (630)
- **6205** Polished (629)

Bronze

- **7305** Polished, Waxed (611)
- **7615** Aged, Waxed (615)
- **7625** Dark Oxidized, Waxed (613)

Elements
Aluminum Anodized

- **0105** Natural Color (628)
- **0205** Champagne Silver Color
- **0410** Bronze Color
- **0510** Medium Bronze Color
- **0710** Dark Bronze Color (710)
- **0810** Black Color (711)

Aluminum Powder Coated

- **8120** Black (671)
- **8220** White (714)

Transitions
Plated

- **014** Polished Nickel (618)
- **015** Satin Nickel (619)
- **026** Polished Chrome (625)
- **03P** Polished Brass PVD (605)

Natural

- **003** Polished Brass (605)
- **004** Satin Brass (606)
- **10B** Satin Brass Dark Oxidized (607)

Backset

238

Insert your choice of backset using one of the three digit codes below.

Standard

238 2⅜" Backset
234 2¾" Backset

Handing

All sets are non-handed.

Door Thickness

134

Insert your choice of door thickness using one of the three digit codes.

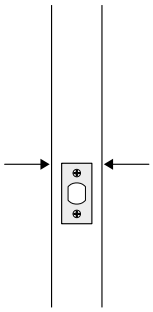
Standard

134 1¾"
138 1⅜"

Special Order

200 2"
214 2¼"

All sizes over 2¼" thick please consult FSB.



Heavy Duty Privacy Deadbolt
Series HDD and HDT Functions



Series HDD and HDT

Heavy Duty Privacy Deadbolt

Specifications
Full bolt extension achieved with 135° thumbturn rotation

Deadbolt
All HDD and HDT use the same deadbolt.

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

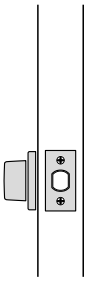
Strike
Universal deadbolt strike with dustbox.

Face Plate
Faceplate width 1" (25.4 mm) standard
Faceplate width 1 1/8" (28.5 mm) optional

Function R

Deadbolt with Thumbturn

Description
Deadbolt by thumbturn inside.
No operation outside.



Premium and **Elements Series** Trim Sets

RA-S	RA-D	RM-S	RJ-S	ED-S	RF-C
					

Transitions Series Trim Sets

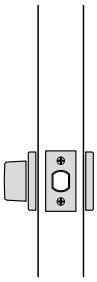
RA-S	RA-D	RM-S	RM-D
			

Heavy Duty Privacy Deadbolt
Series HDD and HDT Functions

Function S

Deadbolt with Thumbturn and Emergency Release

Description
Deadbolt by thumbturn inside and emergency release outside.



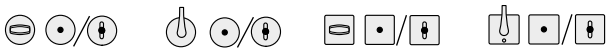
Premium and **Elements Series** Trim Sets

RA-SN/SI **RA-DN/DI** **RM-SN/SI**



Transitions Series Trim Sets

RA-SN/SI **RA-DN/DI** **RM-SN/SI** **RM-DN/DI**

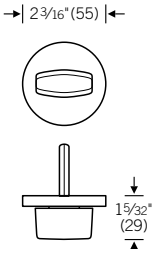


Thumbturns for RA 55mm Rose
Series HDD and HDT

S

17 1744 00169
Standard Thumbturn





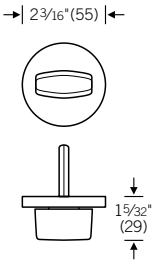
Standard Turn with Emergency Release (SN)

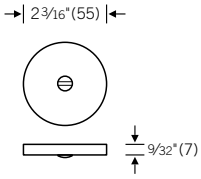
17 1744 00160

Trim Set - Includes two rose assemblies, spindle and screws









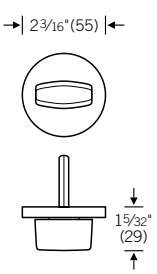
Standard Turn with Emergency Release and Indicator (SI)

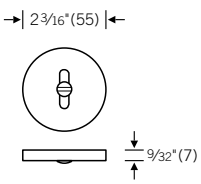
17 1744 00159

Trim Set - Includes two rose assemblies, spindle and screws







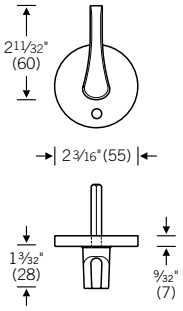


Thumbturns for RA 55mm Rose
Series HDD and HDT

D

17 1744 09169
ADA Thumbturn





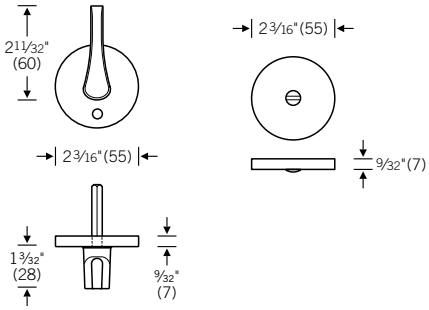
ADA Turn with Emergency Release (DN)

17 1744 09160

Trim Set - Includes two rose assemblies, spindle and screws







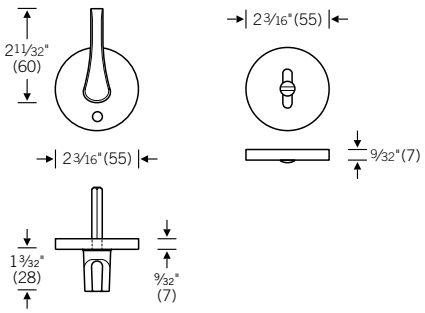
ADA Turn with Emergency Release and Indicator (DI)

17 1744 09159

Trim Set - Includes two rose assemblies, spindle and screws







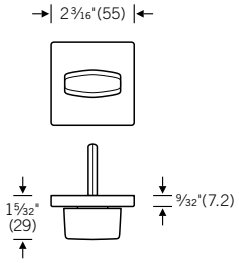
HDD & HDT

Thumbturns for RM 55mm Square Rose
Series HDD and HDT

S

17 1712 00169
Standard Thumbturn



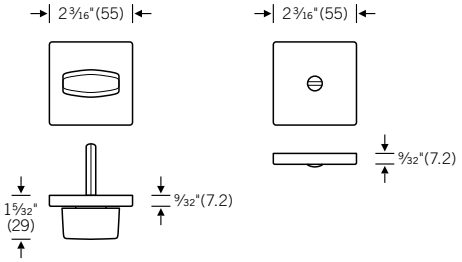


Standard Turn with Emergency Release (SN)
17 1712 00160

Trim Set - Includes two rose assemblies, spindle and screws





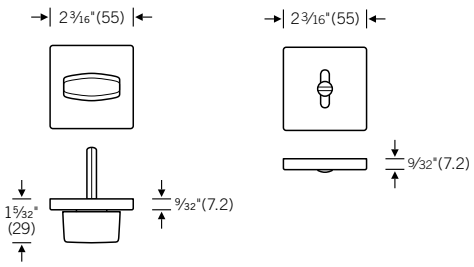


Standard Turn with Emergency Release and Indicator (SI)
17 1712 00159

Trim Set - Includes two rose assemblies, spindle and screws



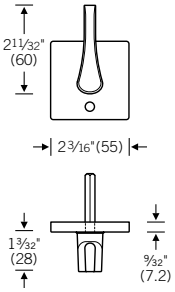




D

17 1712 09169
ADA Thumbturn





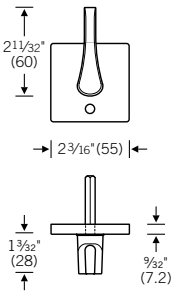
ADA Turn with Emergency Release (DN)

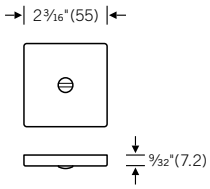
17 1712 09160 Transitions Series Only

Trim Set - Includes two rose assemblies, spindle and screws









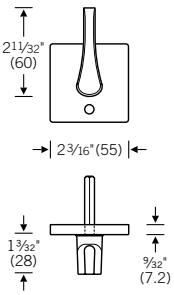
ADA Turn with Emergency Release and Indicator (DI)

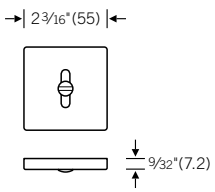
17 1712 09159 Transitions Series Only

Trim Set - Includes two rose assemblies, spindle and screws







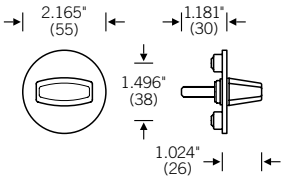


Trim Set RJ Flush Rose
Deadbolt HDD

S

17 1737 09018
Standard Thumbturn

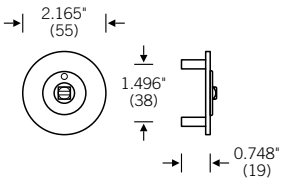




I

Emergency Release with Indicator





Set with Standard Thumbturn (**SI**) 17 1737 09017

RJ trim cannot be purchased independently from lockset.
Trim number for reference only.

RJ trim is available for 1¾" door thickness only.
Using wood screws.

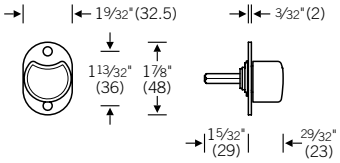
Trim Set RF Narrow Rose
Deadbolt HDD

Premium and Elements

C

03 0418 09001
Crescent Thumbturn

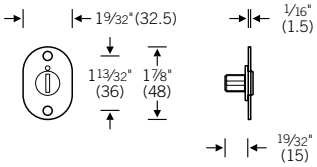




I

Emergency Release with Indicator





Set with Crescent Thumbturn (**CI**) 03 0418 09002

Tubular Deadbolt
Suggested Specification

HDD/HDT 7220 Privacy Deadbolt

All heavy duty tubular deadbolts shall be series HDD as provided by FSB North America, Berlin, CT.

Deadbolts shall have either a 2¾" (70 mm) or 2⅜" (60 mm) backset and be non-handed.
Strikes shall be non-handed.

Lever and trim designs shall be capable of being suited to operate standard, narrow style and European mortise locks to maintain the design throughout the project. All locks and trim must be provided by the same manufacturer.

All heavy duty tubular deadbolts shall carry a 3 year limited warranty.

Steel Case
Size varies according to backset. Heavy gauge Die Cast Alloy.

Latch Front and Faceplate
1" × 2 ¼" (25.4 × 57 mm) Standard
1 ⅛" x 2 ¼" (28.5 x 57 mm) Optional
stainless steel or brass, finished to match. Adjustable for beveled conditions from flat to standard bevel.

Deadbolt
9⁄16" (14 mm) throw.
One-piece, satin nickel or satin brass finish. Field reversible.

Hub
.2" (5 mm) diamond, machined brass
135° thumbturn rotation for full extension.

Door Thickness
1 ⅜" – 2 ¼" (35 – 57 mm) Standard

Backsets
2 ⅜" (60 mm), 2 ¾" (70 mm).

Strike
2 ¾" × 1 ⅛" (70 × 28.5 mm).
Wrought stainless steel or brass, finished to match. Regularly furnished as standard with a black plastic dust box.
Special strikes and wrought dust boxes available on a special order basis.


FSB
Poliermaschinen
KE 21524

Specifying Deadbolt
Keyed Deadbolt Series KDD and KDT

Keyed Deadbolt Type

KDD

Insert your choice of Lock Type.

KDD
Premium
Elements

Lock and Latch Function

N

Insert your choice of function using one of the letter codes below.

N Key × Key Deadbolt
P Key × Thumbturn Deadbolt

Trim Set

DA

Insert your choice of rose using one of the two letter codes below.

Premium/Elements

DA Conical Rose
2 3⁄16 (55 mm)
DD Conical Rose
2 9⁄16 (65 mm)
LA* Conical Rose
2 3⁄16 (55 mm)
LD* Conical Rose
2 9⁄16 (65 mm)
LM* Square Rose
2 3⁄16 (55 mm)

* LA, LD and LM Roses only available in Stainless Steel.

Trim sets are dependent on lock function. Not all trim sets are available for all functions. More details are provided on the lock function pages.

Thumbturn and Indicator

S

Only thumbturn available in KDD/KDT is the Standard Thumbturn.

Premium/Elements


S Standard thumbturn available with all roses

KDT

Transitions

Transitions

LA Conical Rose
2 3⁄16 (55 mm)
LD Conical Rose
2 9⁄16 (65 mm)
LM Square Rose
2 3⁄16 (55 mm)

Transitions


S Standard thumbturn available with all roses

Example for Specifying

KDD - N - DA - S - 6204 - 238 - 134

Material and Finish

6204

Insert your choice of material and finish using one of the codes below.

Premium
Stainless Steel

- **6204** Satin (630)
- **6205** Polished (629)

Elements
Aluminum Anodized

- **0105** Natural Color (628)
- **0205** Champagne Silver Color
- **0410** Bronze Color
- **0510** Medium Bronze Color
- **0710** Dark Bronze Color (710)
- **0810** Black Color (711)

Aluminum Powder Coated

- **8120** Black (671)
- **8220** White (714)

Transitions
Plated

- **014** Polished Nickel (618)
- **015** Satin Nickel (619)
- **026** Polished Chrome (625)
- **03P** Polished Brass PVD (605)

Natural

- **003** Polished Brass (605)
- **004** Satin Brass (606)
- **10B** Satin Brass Dark Oxidized (607)

Backset

238

Insert your choice of backset using one of the three digit codes below.

Standard

238 2⅜" Backset
234 2¾" Backset

Handing

All sets are non-handed.

Door Thickness

134

Insert your choice of door thickness using one of the three digit codes.

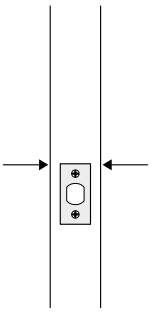
Standard

134 1¾"
138 1⅜"

Special Order

200 2"
214 2¼"

All sizes over 2¼" thick please consult FSB.



Keyed Deadbolt
Series KDD and KDT Functions



Series KDD and KDT

Keyed Deadbolt

Specifications
Faceplate width 1" (25.4 mm).

Deadbolt
All KDD and KDT use the same deadbolt.

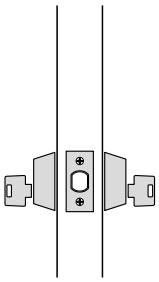
Backsets
2⅜" (60 mm)
2¾" (70 mm)

Strike
Universal deadbolt strike with dustbox.

Function N

Key × Key Deadbolt

Description
Deadbolt by key either side.



Premium and **Elements Series** Trim Sets

***** Stainless Steel Only

DA	DD	LA*	LD*	LM*
◎◎	◎◎	◎◎	◎◎	▣▣

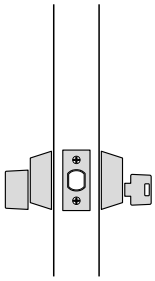
Transitions Series Trim Sets

LA	LD	LM
◎◎	◎◎	▣▣

Keyed Deadbolt
Series KDD and KDT Functions

Function P

Key × Thumbturn Deadbolt



Description
Deadbolt by key outside and thumbturn inside.

Premium and **Elements Series** Trim Sets

* Stainless Steel Only

DA



DD



LA*



LD*



LM*



Transitions Series Trim Sets

LA



LD



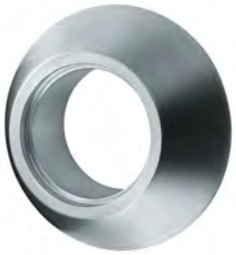
LM

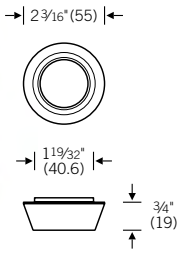


KDD & KDT

DA

03 0450 09011
2 3⁄16" (55 mm) × 3⁄4" (19 mm)

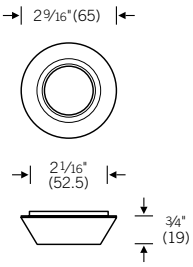




DD

03 0450 09010
2 9⁄16" (65 mm) × 3⁄4" (19 mm)

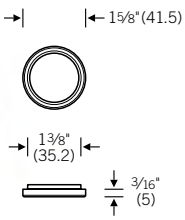




Cylinder Extension Ring

03 0450 09013
1 3⁄8" (35 mm) × 3⁄16" (5 mm)





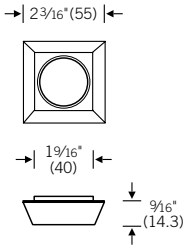


Cylinder must be ordered separately

LM

03 0450 09154
2 3⁄16" (55 mm) × 9⁄16" (14.3 mm)

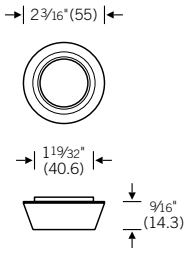




LA

03 0450 09152
2 3⁄16" (55 mm) × 9⁄16" (14.3 mm)

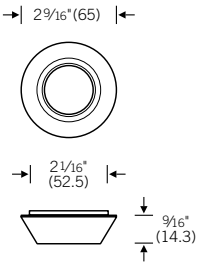




LD

03 0450 09153
2 9⁄16" (65 mm) × 9⁄16" (14.3 mm)

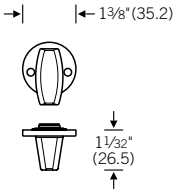




Thumbturn

03 0450 09012





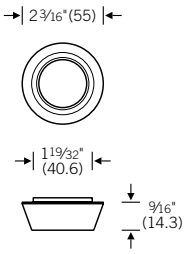


Cylinder must be ordered separately

Trim Sets
Keyed Deadbolt KDT

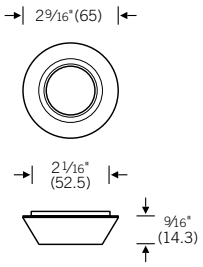
LA
03 0450 09152
2 3⁄16" (55 mm) × 9⁄16" (14.3 mm)





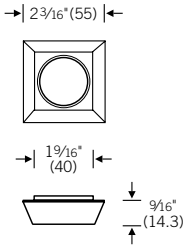
LD
03 0450 09153
2 9⁄16" (65 mm) × 9⁄16" (14.3 mm)





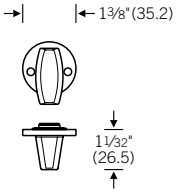
LM
03 0450 09154
2 3⁄16" (55 mm) × 9⁄16" (14.3 mm)





Thumbturn
03 0450 09012







Cylinder must be ordered separately

KDD & KDT

Tubular Deadbolt & Keyed Tubular Deadbolt
Suggested Specification

HDD/HDT 7220 Privacy Deadbolt

All heavy duty tubular deadbolts shall be series HDD as provided by FSB North America, Berlin, CT.

Deadbolts shall have either a 2¾" (70 mm) or 2⅜" (60 mm) backset and be non-handed.
Strikes shall be non-handed.

Lever and trim designs shall be capable of being suited to operate standard, narrow style and European mortise locks to maintain the design throughout the project. All locks and trim must be provided by the same manufacturer.

All heavy duty tubular deadbolts shall carry a 3 year limited warranty.

Steel Case
Size varies according to backset. Heavy gauge Die Cast Alloy.

Latch Front and Faceplate
1" × 2 ¼" (25.4 × 57 mm) Standard
1 ⅛" x 2 ¼" (28.5 x 57 mm) Optional
stainless steel or brass, finished to match.
Adjustable for beveled conditions from flat to standard bevel.

Deadbolt
9⁄16" (14 mm) throw.
One-piece, satin nickel or satin brass finish. Field reversible.

Hub
.2" (5 mm) diamond, machined brass
135° thumbturn rotation for full extension.

Door Thickness
1 ⅜" – 2 ¼" (35 – 57 mm) Standard

Backsets
2⅜" (60 mm), 2¾" (70 mm).

Strike
2¾" × 1 ⅛" (70 × 28.5 mm).
Wrought stainless steel or brass, finished to match. Regularly furnished as standard with a black plastic dust box.
Special strikes and wrought dust boxes available on a special order basis.

KDD/KDT 7070 Keyed Deadbolt

All keyed deadbolts shall be series KDD as provided by FSB North America, Berlin, CT.

Deadbolts shall have either a 2¾" (70 mm) or 2⅜" (60 mm) backset and be non-handed.
Strikes shall be non-handed.

Lever and trim designs shall be capable of being suited to operate standard, narrow style and European mortise locks to maintain the design throughout the project. All locks and trim must be provided by the same manufacturer.

All keyed deadbolts shall carry a 3 year limited warranty.

Latch Front and Faceplate
1" × 2 ¼" (25.4 × 57 mm) Standard
Stainless steel.

Deadbolt
1" (25.4 mm) throw.
One-piece, solid brass, nickel finish.
Field reversible.

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

Door Thickness
1 ⅜" – 2 ¼" (35 – 57 mm) Standard

Backsets
2⅜" (60 mm), 2¾" (70 mm).

Strike
2¾" × 1 ⅛" (70 × 28.5 mm).
Wrought stainless steel or brass, finished to match. Regularly furnished as standard with a black plastic dust box.
Special strikes and wrought dust boxes available on a special order basis.





Sliding Lever Lock
SLL and SLT Series

Quality
A premium quality, heavy duty commercial grade sliding and door lock series manufactured in the United States to meet the stringent demands of commercial applications. Built using a heavy-gauge steel case, the lock features a machined, solid brass deadlock with stainless steel hooks. The locks are designed to accommodate FSB trim for positive alignment of the lock case.

The lock is backed by a 10 year limited warranty.

Design Advantage
FSB has an array of aesthetically pleasing lever and trim designs to complement your design vision.

Locks are available with backsets from 2 ½" to 6".

Available with our Premium, Elements and Transitions Series of door furniture.

Specifying Locksets
Sliding Lever Lock (SLL and SLT)

Lock Type

SLL

Insert your choice of Lock Type.

SLL
Premium Elements

Lock Function

B

Insert your choice of function using one of the letter codes below.

B Dormitory
E Privacy
T Patio

Lever Design

1147

Insert your choice of lever design using one of the four digit codes.

Premium/Elements

1001*	**1078**
1002*	**1080**
1003	**1088**
1004	**1093**
1005	**1102**
1015	**1106**
1016	**1107**
1020*	**1108**
1021	**1119**
1023	**1134**
1025	**1144**
1027	**1146**
1028	**1147**
1031	**1160**
1034*	**1163**
1035	**1164**
1045	**1176**
1051*	**1177**
1053	**1178**
1057	**1183**
1058	**1185***
1070	**1241***
1074	**1251^**
1075	**1257***
1076	**1259***
1077*	

^ Stainless Only
* Elements Only

Trim Set

RA

Insert your choice of rose or escutcheon using one of the letter codes.

Premium/Elements

RA Rose 2 3/16" (55 mm)
RD Rose 2 9/16" (65 mm)
RF Narrow Rose

RM Square Rose (55 mm)
ED Long Rectangular

Trim sets are dependent on lock function. Not all trim sets are available for all functions. More details are provided on the lock function pages.

Thumbturn and Indicator

S

Insert your choice of thumbturn and indicator if necessary using the codes provided.

Premium/Elements


S Standard thumbturn available with roses and escutcheons


D ADA thumbturn available with RA and RD roses only


C Crescent thumbturn available with RF Trim only

Premium, Elements and Transitions
Emergency Releases


N


I

SLT

Transitions

Transitions

1035	**1250**
1058	**1251**
1075	**1252**
1076	**1253**
1241	

Transitions

RA Rose 2 3/16" (55 mm)
RD Rose 2 9/16" (65 mm)
RM Square Rose (55 mm)
RS Square Rose (65 mm)
ED Long Rectangular

Transitions


S Standard thumbturn available with all roses and escutcheons


D ADA thumbturn available with roses only

Example for Specifying

SLL - B - 1147 - RA - S - 6204 - 234 - RH - 134

Material and Finish

6204

Insert your choice of material and finish using one of the codes below.

Premium
Stainless Steel

- **6204** Satin (630)
- **6205** Polished (629)

Bronze

- **7305** Polished, Waxed (611)
- **7615** Aged, Waxed (615)
- **7625** Dark Oxidized, Waxed (613)

Elements
Aluminum Anodized

- **0105** Natural Color (628)
- **0205** Champagne Silver Color
- **0410** Bronze Color
- **0510** Medium Bronze Color
- **0710** Dark Bronze Color (710)
- **0810** Black Color (711)

Aluminum Powder Coated

- **8120** Black (671)
- **8220** White (714)

Transitions
Plated

- **014** Polished Nickel (618)
- **015** Satin Nickel (619)
- **026** Polished Chrome (625)
- **03P** Polished Brass PVD (605)

Natural

- **003** Polished Brass (605)
- **004** Satin Brass (606)
- **10B** Satin Brass Dark Oxidized (607)

Backset

234

Insert your choice of backset using one of the three digit codes below.

Standard

212 2½" Backset
234 2¾" Backset

Special Order

334 3¾" Backset
500 5" Backset
600 6" Backset

Handing

RH

Insert your choice of hand using one of the two letter codes below.

RH Right Hand
LH Left Hand

Door Thickness

134

Insert your choice of door thickness using one of the three digit codes.

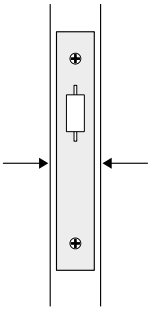
Standard

134 1¾"

Special Order

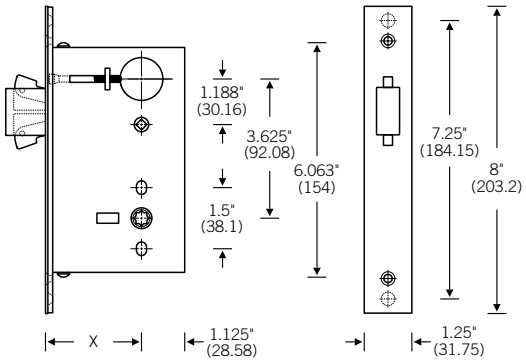
138 1⅜"
200 2"
214 2¼"

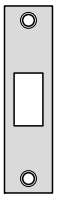
All sizes over 1¾" thick are special order. Please consult FSB.



Sliding Lever Lock
Series SLL and SLT Functions







Series SLL & SLT

Sliding Door Lock

Backsets
2 ½" (64 mm)
2 ¾" (70 mm)
3 ¾" (95 mm)
5" (127 mm)
6" (152 mm)

Strike
Deadbolt strike with dustbox.

As standard, the deadbolt is always supplied in satin chrome or satin brass. Custom finishes are available on request.

Lock Body
All SLL and SLT use the same lock body.

Lock body only: SLL 7005

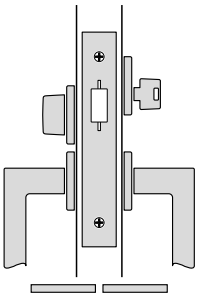
Sliding Lever Lock
Series SLL and SLT Functions

Function B

Dormitory

ANSI Code F13

Description
Dead bolt by handle inside only.
Dead bolt by key outside and thumbturn inside.
Outside handle is always rigid.



Split Spindle

Premium and **Elements Series** Trim Sets

RA-S



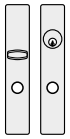
RD-S



RM-S



ED-S



RF-C



RA-D



RD-D



Transitions Series Trim Sets

RA-S



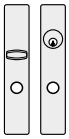
RD-S



RM-S



ED-S



RA-D



RD-D



RM-D



RS-D



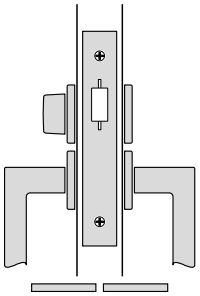
SLL & SLT

Sliding Lever Lock
Series SLL and SLT Functions

Function E

Privacy

ANSI Code F19

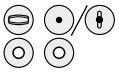


Split Spindle

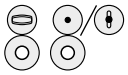
Description
Dead bolt by handle inside only.
Dead bolt by thumbturn inside and emergency release outside.
Outside handle is always rigid.

Premium and **Elements Series** Trim Sets

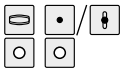
RA-SN/SI



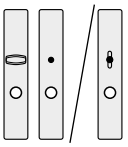
RD-SN/SI



RM-SN/SI



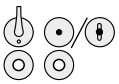
ED-SN/SI



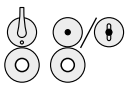
RF-CI



RA-DN/DI

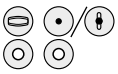


RD-DN/DI

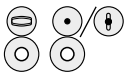


Transitions Series Trim Sets

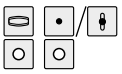
RA-SN/SI



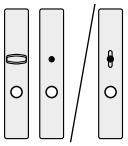
RD-SN/SI



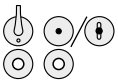
RM-SN/SI



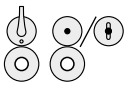
ED-SN/SI



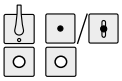
RA-DN/DI



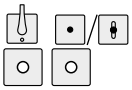
RD-DN/DI



RM-DN/DI



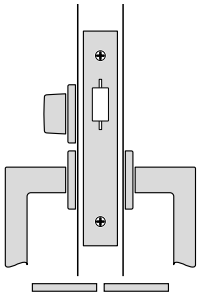
RS-DN/DI



Sliding Lever Lock
Series SLL and SLT Functions

Function T
Patio

Description
Dead bolt by handle inside only.
Dead bolt by thumbturn inside.
Outside handle is always rigid.



Split Spindle

Premium and **Elements Series** Trim Sets

RA-S



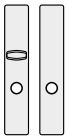
RD-S



RM-S



ED-S



RF-C



RA-D



RD-D



Transitions Series Trim Sets

RA-S



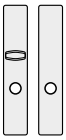
RD-S



RM-S



ED-S



RA-D



RD-D



RM-D



RS-D



SLL & SLT

Trim Set Overview
Sliding Lever Lock (SLL and SLT)

RA



RD



RF



RM



RS

65mm Square



ED



For trim set details please refer to Standard Mortise Locks Section

	Premium		Elements	Transitions	
Materials and Finishes	Stainless Steel	Bronze	Aluminum	Brass	
	6204 (630)	7305 (611)	0105 (628)	Plated Brass	Natural Brass
	6205 (629)	7615 (615)	0205	014 (618)	003 (605)
		7625 (613)	0410	015 (619)	004 (606)
			0510	026 (625)	10B (607)
			0710 (710)	03P (605)	
			0810 (711)		
			Powder Coated		

Sliding Lever Lock
Suggested Specification

Sliding Lever Lock SLL and SLT 7005

All heavy duty sliding door locks shall be series SLL as manufactured by FSB North America, Berlin, CT.
Locksets shall be available with backsets ranging from 2 ½" to 6" and be non-handed.
Trim designs shall be FSB and shall be matched to each specific lock type and function to ensure proper compatibility.

All heavy duty sliding door locks shall carry a 10 year limited warranty.

Steel Case
Size varies according to backset. Heavy gauge 0.093" (2.36 mm) thick, corrosion resistant zinc dichromate finish.

Armor Front and Scalp
0.218" × 1.25" × 8"
(5.5 × 32 × 203 mm)

Faceplate (Scalp only)
0.062" × 1.25" × 8"
(1.57 × 32 × 203 mm).
Wrought stainless steel, bronze or brass substrate. Finished to match.

Deadbolt
0.5625" × 1.25" (14 x 32 mm)
× 1" (25.4 mm) throw.
Machined solid brass with stainless steel hooks.

Thumbturn Hub
0.2" (5 mm) diamond. Oil impregnated, copper infiltrated sintered steel, 90 degree rotation.

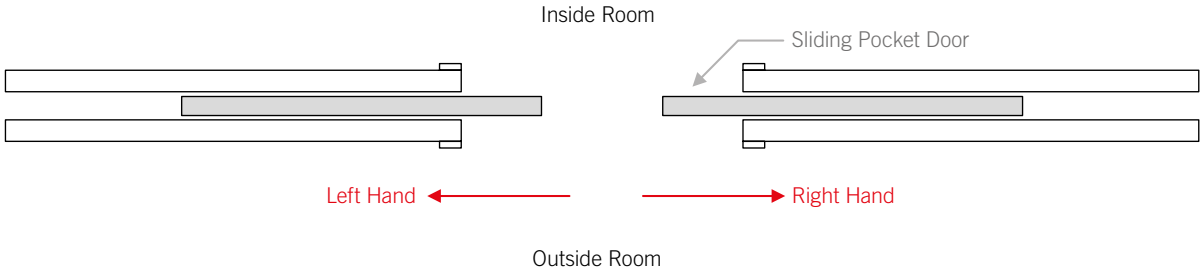
Backsets
2.50" (64 mm)
2.75" (70 mm)
3.75" (95 mm)
5.00" (127 mm)
6.00" (152 mm)

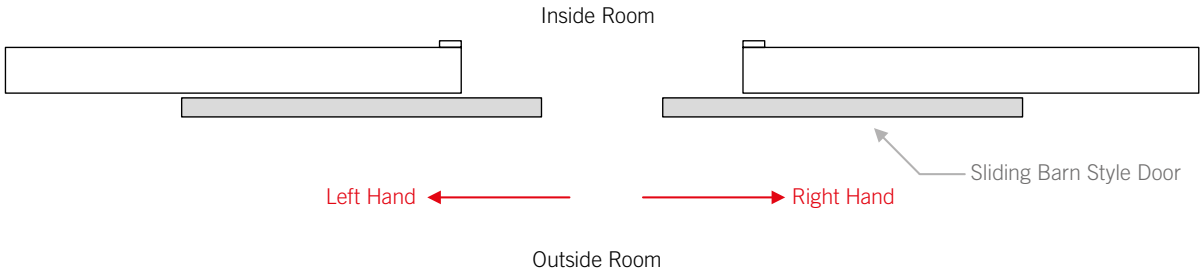
Spacing
3.625" (92 mm) center lever hub to center cylinder, 2.4375" (62 mm) center lever hub to center thumbturn hub.

Strike
4.875" × 1.25" (124 × 32 mm) rectangular strike. Wrought stainless steel, bronze, and brass substrate. Finished to match. Wrought dust boxes also available.

Handing Sliding Door Hardware

Standing on the outside of a room which could be a closet, a bedroom, a bathroom, an office, etc., if the door slides to the right then you need a right-hand lock and if to the left then you need a left-hand lock.








FSB
Made in Germany

Sliding & Pocket Door Locks
SDL, SPL, ESL and EPL Series

SDL and SPL Series

Quality
A premium quality, heavy duty commercial grade sliding and pocket door lock/pull series manufactured in the United States to meet the stringent demands of commercial applications. Built using a heavy-gauge steel case, the lock features a machined, solid brass deadlock with stainless steel hooks. The locks are designed to accommodate FSB trim for positive alignment of the lock case.
The lock is backed by a 10 year limited warranty.

Design Advantage
FSB has an array of sliding and pocket door lock trim to complement your design vision. Locks are available with backsets from 2 ½" to 6".

ESL and EPL Series

Quality
A high quality sliding pocket door privacy lock/pull/passage series compatible with an array of FSB sliding door trim. The locks are manufactured in Germany and designed to accommodate FSB trim for positive alignment with the lock case.
The lock is backed by a 5 year limited warranty.

Design Advantage
FSB has an array of sliding and pocket door lock trim to complement your design vision.

Specifying Locksets
Sliding & Pocket Door Locks (SDL, SPL, ESL and EPL)

Lock Types

SDL

Insert your choice of lock using one of the three letter codes below.

Standard Sliding/Pocket Door Locks

SDL Sliding Door Lock
SPL Standard Pocket Lock

European Sliding/Pocket Door Locks

ESL European Sliding Lock
EPL European Pocket Lock

Lock Functions

P

Insert your choice of function using one of the letter codes below.

SDL

P Key × Thumbturn Deadlock
R Thumbturn Deadlock
S Thumbturn Deadlock with Emergency Release

SPL

P Key × Thumbturn Deadlock
R Thumbturn Deadlock
S Thumbturn Deadlock with Emergency Release
AS Prepared as Strike
Y Double Dummy
YP Double Dummy with Pull

ESL

S Thumbturn Deadlock with Emergency Release

EPL

S Thumbturn Deadlock with Emergency Release
AS Prepared as Strike
Y Double Dummy
YP Double Dummy with Pull

Trim Set

SA

Insert your choice of trim set using one of the two letter codes.

Standard Sliding/Pocket Door Locks

SA Flush Pull
SB Spring Loaded Flush Pull
SC Flush Ring Handle

European Sliding/Pocket Door Locks

SA Flush Pull
SB Spring Loaded Flush Pull
SC Flush Ring Handle

Trim sets are dependent on lock function. Not all trim sets are available for all functions. More details are provided on the lock function pages.

Emergency Release

I

Insert your choice of trim using one of the two letter codes.

Emergency Releases

SA



N



I

SB



N



I

SC



I

Indicator choices are only necessary with the S lock function.

Example for Specifying

SDL - P - SA - 6204 - 234 - 134

Material and Finish

6204

Insert your choice of material and finish using one of the codes below.

Premium
Stainless Steel

6204 Satin (630)
6205 Polished (629)

Elements
Aluminum Anodized

0105 Natural Color (628)
0205 Champagne Silver Color
0410 Bronze Color
0510 Medium Bronze Color
0710 Dark Bronze Color (710)
0810 Black Color (711)

Aluminum Powder Coated

8120 Black (671)
8220 White (714)

Backset

234

Insert your choice of backset using one of the three digit codes below

Standard Sliding/Pocket Door Locks SDL, SPL

Standard

212 2 ½" Backset
234 2 ¾" Backset

Special Order

334 3 ¾" Backset
500 5" Backset
600 6" Backset

European Sliding/Pocket Door Locks ESL, EPL

Standard

231 2 3/16" (55 mm) Backset

Door Thickness

134

Insert your choice of door thickness using one of the three digit codes.

Standard

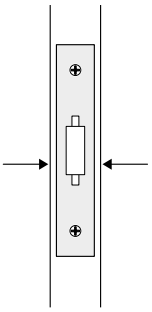
134 1 ¾"

SDL & SPL locking functions with SB Trim available for 1 ¾" wood doors only.
Except Y & YP Dummy sets

Special Order

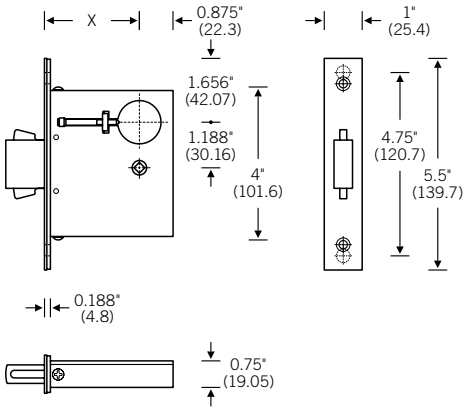
200 2"
214 2 ¼"

All sizes over 1 ¾" thick are special order.
Please consult FSB.



Sliding Door Lock
Series SDL Functions





Series SDL

Sliding Door Lock

Backsets
2 ½" (64 mm)
2 ¾" (70 mm)
3 ¾" (95 mm)
5" (127 mm)
6" (152 mm)

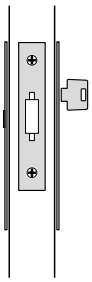
1 ¾" or greater door thickness required.

As standard, the deadbolt is always supplied in satin chrome or satin brass. Custom finishes are available on request.

Lock body only: SDL 7001

Function P

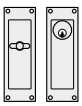
Key × Thumbturn Deadlock



Deadbolt by key outside and thumbturn inside.

Trim Sets

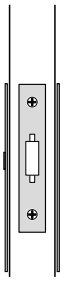
SA



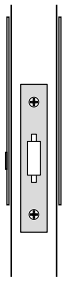
Sliding Door Lock
Series SDL Functions

Function R

Thumbturn Deadlock



SA



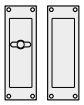
SB

Deadbolt by thumbturn inside.
No operation outside.

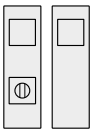
* **SB** Trim available for 1 ¾" wood doors only.

Trim Sets

SA

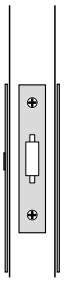


SB*

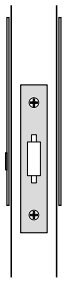


Function S

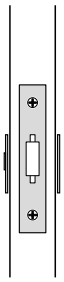
Thumbturn Deadlock with Emergency Release



SA



SB



SC

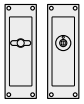
Deadbolt by thumbturn inside and emergency release outside.

* **SB** Trim available for 1 ¾" wood doors only.

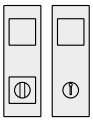
SA-N Available in Stainless Only

Trim Sets

SA-I



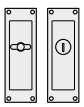
SB-I



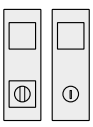
SC-I



SA-N



SB-N



Options

SA



N **I**

SB



N **I**

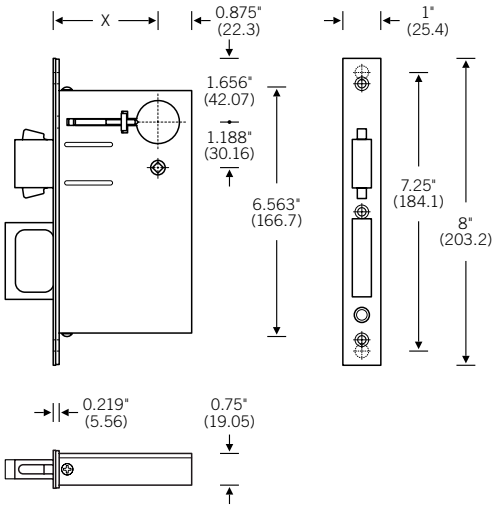
SC



I

Standard Pocket Lock
Series SPL Functions





Series SPL

Standard Pocket Lock/Edge Pull

Backsets
2 ½" (64 mm)
2 ¾" (70 mm)
3 ¾" (95 mm)
5" (127 mm)
6" (152 mm)

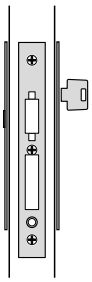
1 ¾" or greater door thickness required.

As standard, the finger pull, the button and deadbolt is always supplied in satin chrome or satin brass. Custom finishes are available on request.

Lock body only: SPL 7002

Function P

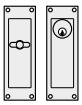
Key × Thumbturn Deadlock



Deadbolt by key outside and thumbturn inside.

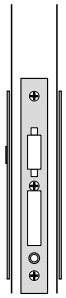
Trim Sets

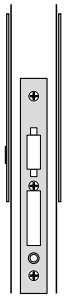
SA



Standard Pocket Lock
Series SPL Functions

Function R
Thumbturn Deadlock


SA

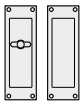

SB

Deadbolt by thumbturn inside. No operation outside.

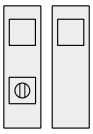
* **SB** Trim available for 1 ¾" wood doors only.

Trim Sets

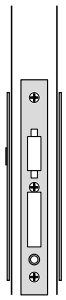
SA

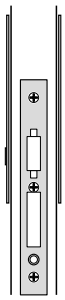


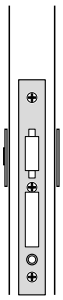
SB*



Function S
Thumbturn Deadlock with Emergency Release


SA


SB


SC

Deadbolt by thumbturn inside and emergency release outside.

* **SB** Trim available for 1 ¾" wood doors only.

Options

SA


N


I

SB


N

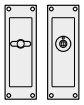

I

SC

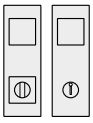

I

Trim Sets

SA-I



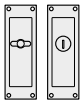
SB-I



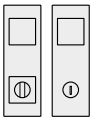
SC-I



SA-N



SB-N

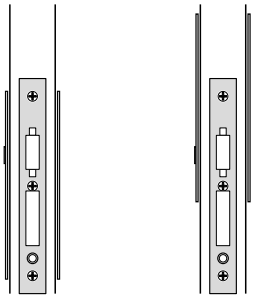


Sliding Door Locks

Standard Pocket Lock
Series SPL Functions

Function AS

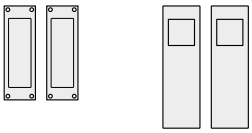
Dummy prepared as Strike/Pull



Dummy handle either side.
Lock case front includes strike and pull.

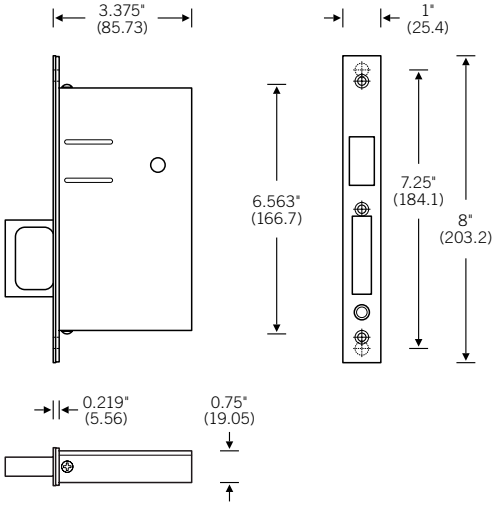
Trim Sets

SA **SB**



SPL as Strike





SPL AS

Standard Pocket Lock Strike

Backsets
2 ½" (64 mm)
2 ¾" (70 mm)

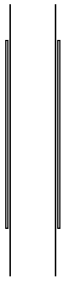
1 ¾" or greater door thickness required.

With spring loaded cover for deadbolt.

As standard, the finger pull, the button and deadbolt is always supplied in satin stainless finish.

Standard Pocket Lock
Series SPL Functions

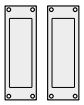
Function Y
Double Dummy



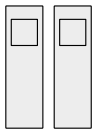
Dummy handle either side.

Trim Sets

SA

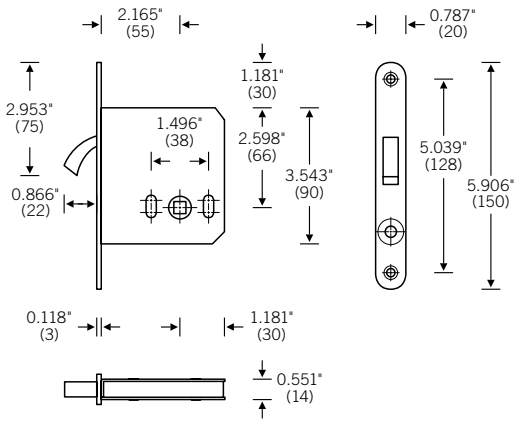


SB



European Sliding Lock
Series ESL Function





Series ESL

European Sliding Lock

As standard, the deadbolt is always supplied in satin stainless finish.

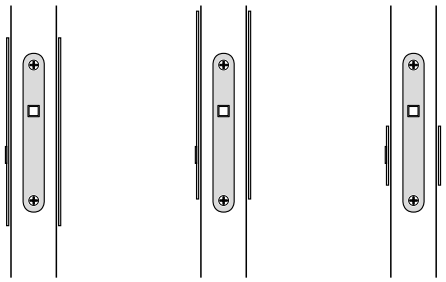
Lock body only: ESL 7001

Backset
2 3/16" (55 mm)

1 ¾" door thickness required.

Function S

Thumbturn Deadlock with Emergency Release



SA SB SC

Deadbolt by thumbturn inside and emergency release outside.

Options

SA



I

SB



N **I**

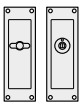
SC



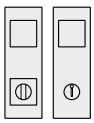
I

Trim Sets

SA-I



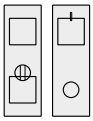
SB-I



SC-I

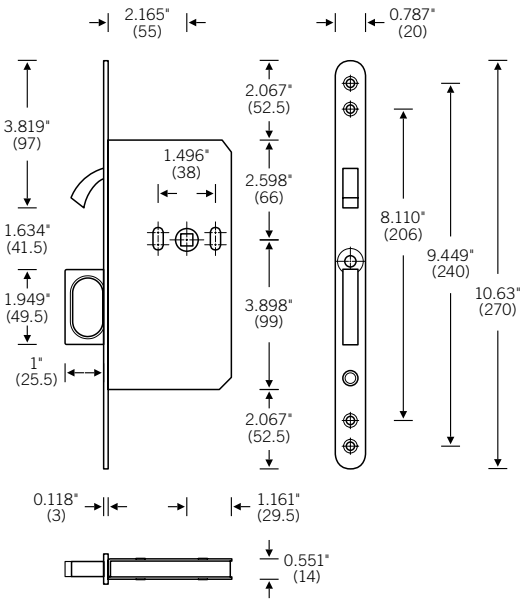


SB-N



European Pocket Lock
Series EPL Function





Series EPL

European Pocket Lock/Edge Pull

As standard, the finger pull, button and deadbolt is always supplied in satin stainless finish.

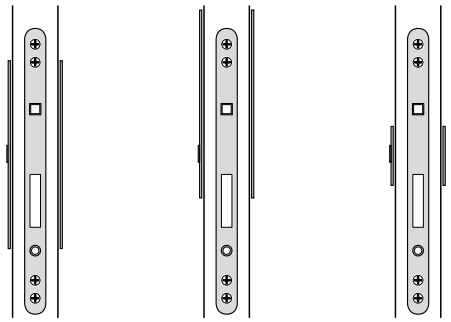
Lock body only: EPL 7002

Backset
2 3/16" (55 mm)

1 3/4" door thickness required.

Function S

Thumbturn Deadlock with Emergency Release



SA SB SC

Deadbolt by thumbturn inside and emergency release outside.

Options

SA



I

SB



N **I**

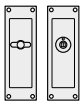
SC



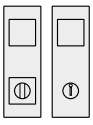
I

Trim Sets

SA-I



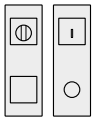
SB-I



SC-I



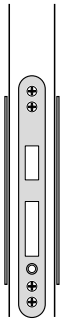
SB-N



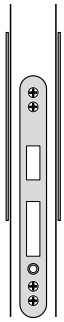
European Sliding Lock
Series EPL Functions

Function AS

Dummy prepared as Strike/Pull



SA

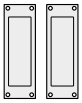


SB

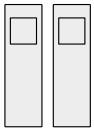
Dummy handle either side.
Lock case front includes strike and pull.

Trim Sets

SA

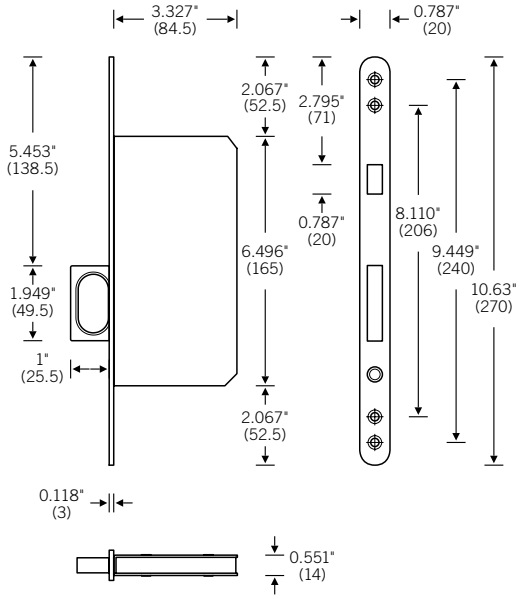


SB



EPL as Strike





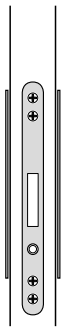
EPL AS

Strike Box for ESL and EPL

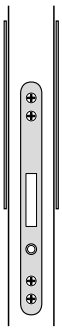
As standard, the finger pull and button is always supplied in satin stainless finish.

European Sliding Lock
Series EPL Functions

Function YP
Dummy with Pull



SA

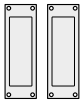


SB

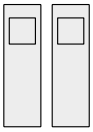
Dummy handle either side.
Lock case with pull.

Trim Sets

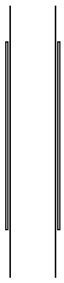
SA



SB



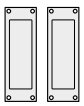
Function Y
Double Dummy



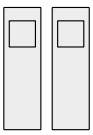
Dummy handle either side.

Trim Sets

SA



SB

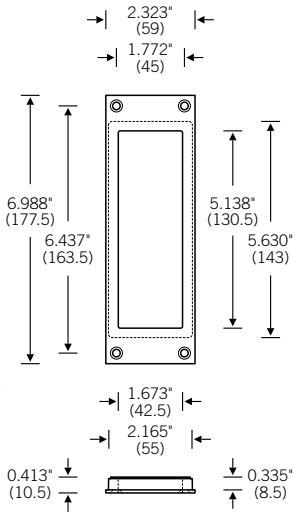


Trim Set SA Flush Pull
Sliding Door Locks (SDL, SPL, ESL and EPL)

SA

42 4210 09000
7" (177.5 mm)

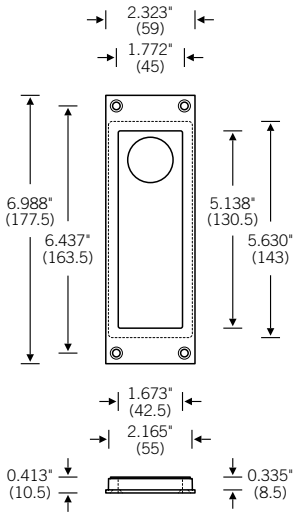




Cylinder Hole

42 4210 09001
Cylinder must be ordered separately

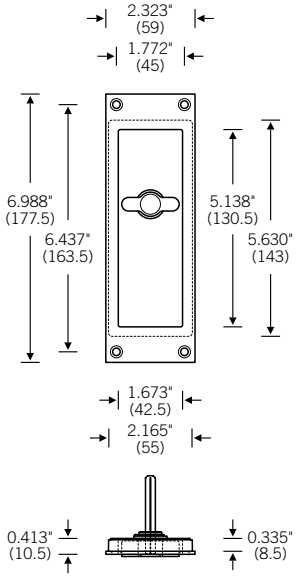




Thumbturn

42 4210 09002
with 5 mm Diamond Spindle

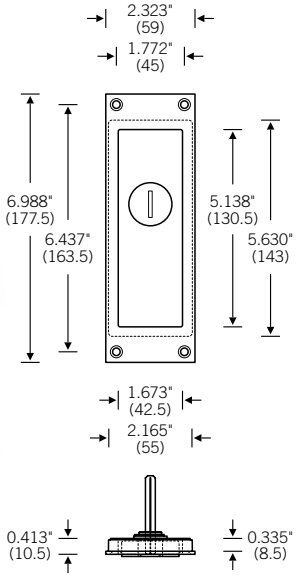




Privacy Set

with Indicator outside and Thumbturn inside
1 ¾" or greater door thickness required.





Set with 5 mm Diamond Spindle and Indicator 42 4210 09003
Set with 8 mm Square Spindle and Indicator 42 4210 09004
Set with 5 mm Diamond Spindle, no Indicator 42 4210 09005 *
* Option "N" Available in Stainless only



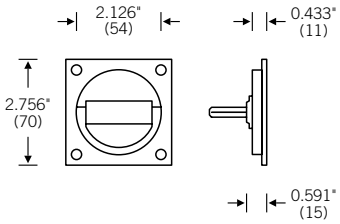
N **I**

SC

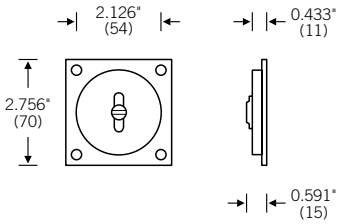
42 4204

Set with Emergency Release and Indicator









Set with 5 mm Diamond Spindle	42 4204 09001
Set with 8 mm Square Spindle	42 4204 09000

1 ¾" or greater door thickness required.

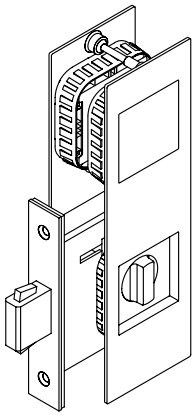
Trim Set SB Privacy Set for Sliding Door Locks (SDL and SPL)

Privacy Set

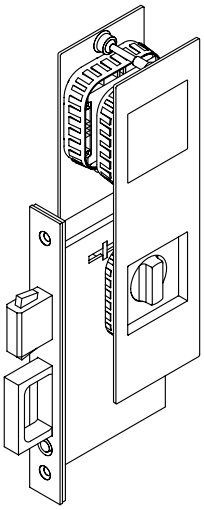
42 4255 ■
as Set with 5 mm Square Spindle







Set with SDL 7001



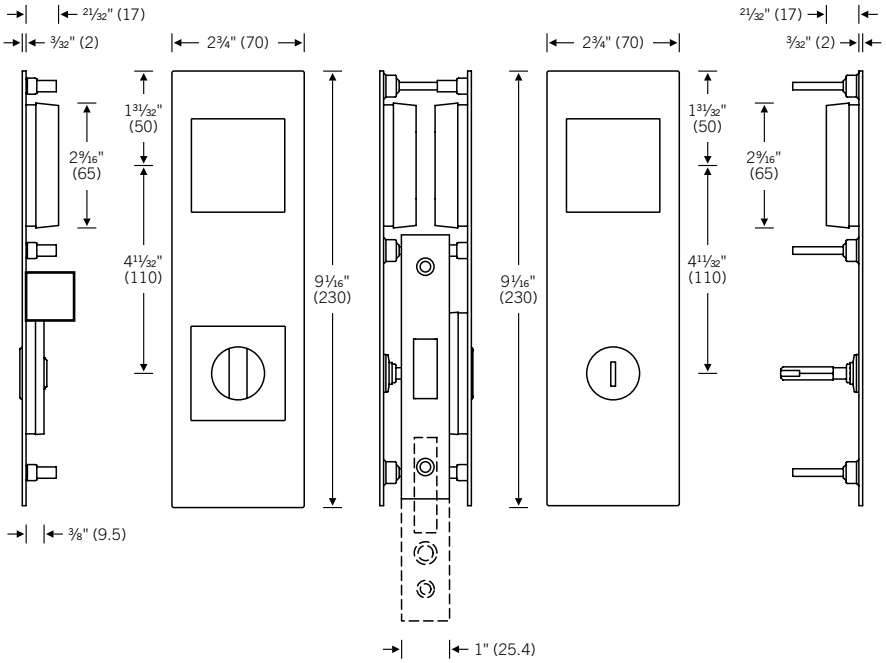
Set with SPL 7002



N



I



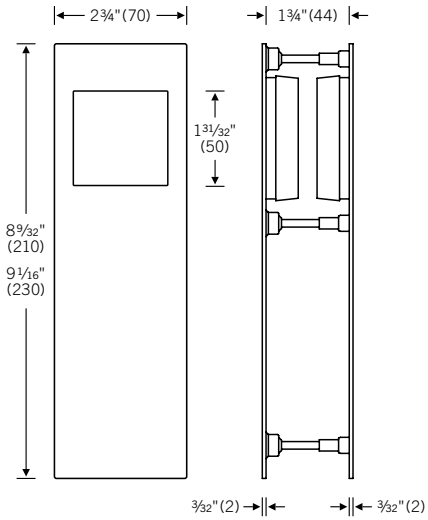
SB Trim for 1 ¾" wood doors only.
SB Trim cannot be purchased independently from Lock. Trim number for reference only.

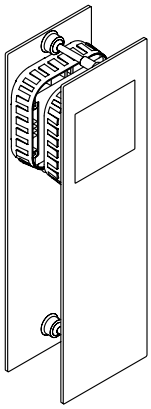
Trim Set SB Dummy Set for Sliding Door Locks (SDL, SPL, ESL and EPL)

SB

42 4255 09006 ■ Set for EPL, ESL (210 mm)
42 4255 09016 ■ Set for SDL, SPL (230 mm)







SB Trim for 1 ¾" wood doors only. SDL & SPL series

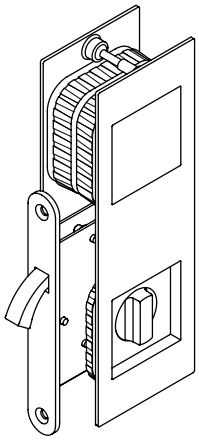
Trim Set SB Privacy Set for Sliding Door Locks (ESL and EPL)

Privacy Set

42 4255 ■
as Set with 8 mm Square Spindle



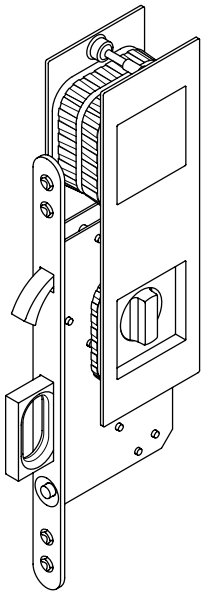




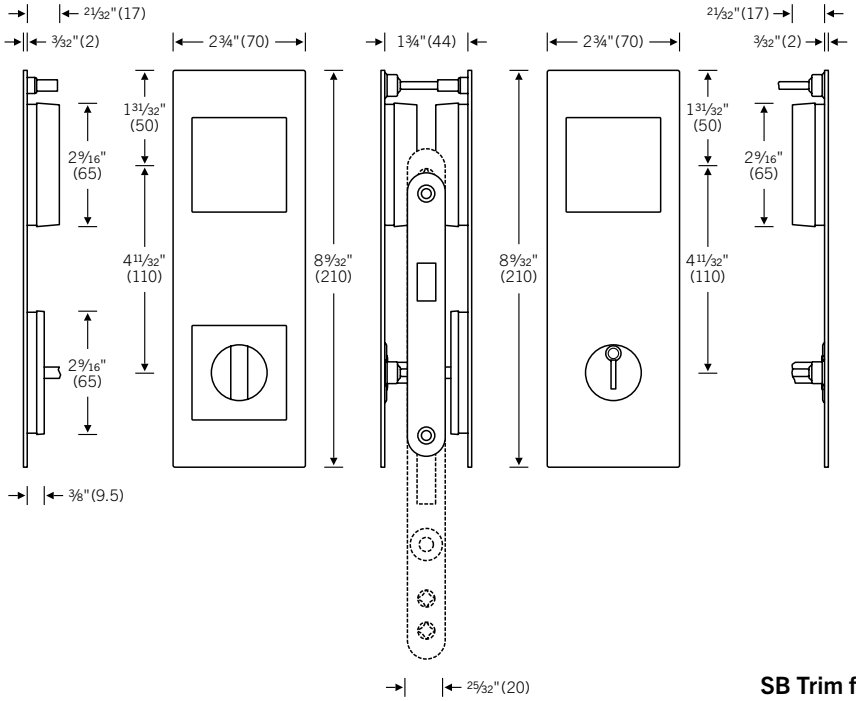
Set with ESL 7001



N **I**



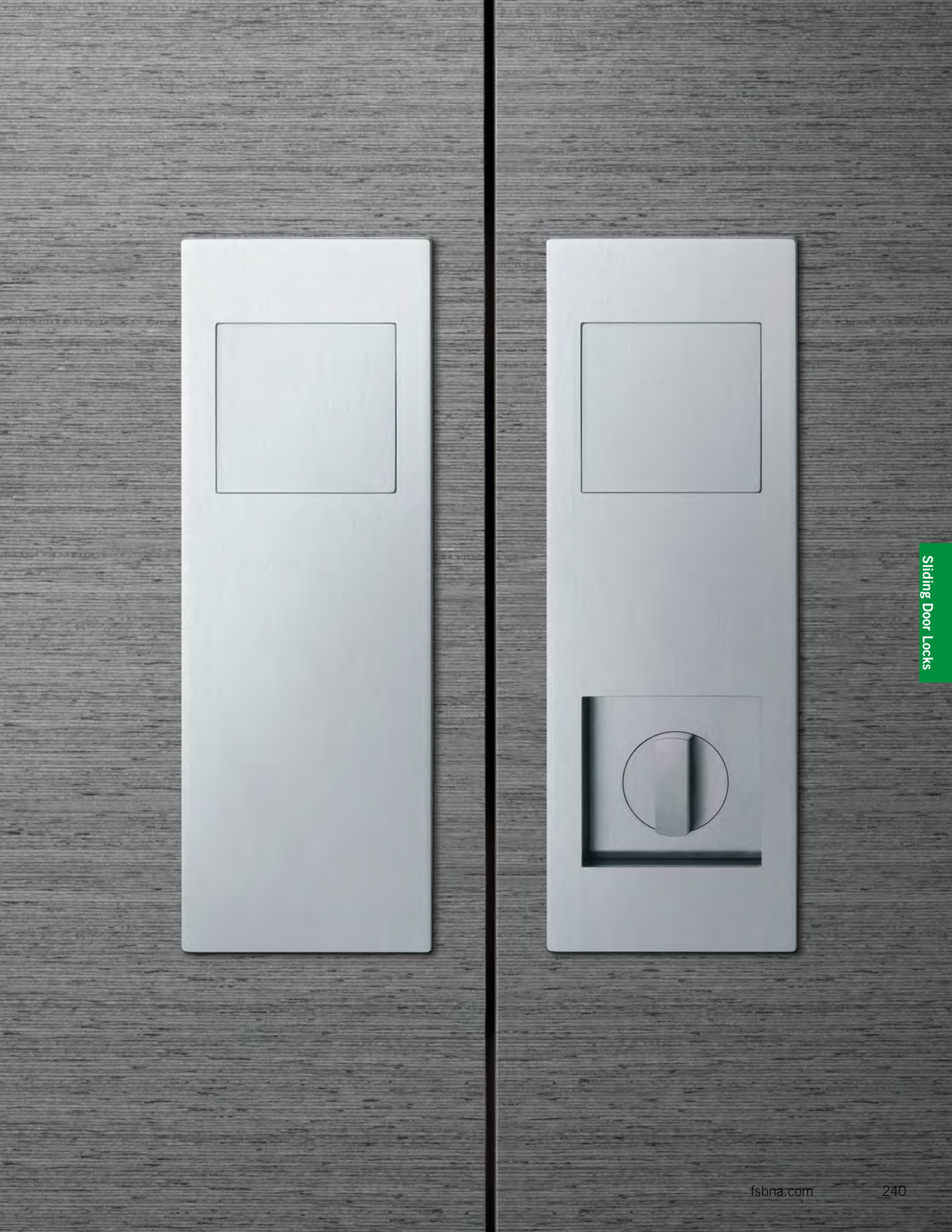
Set with EPL 7002



SB Trim for 1 ¾" wood doors only.
SB trim cannot be purchased independently from Lock. Trim number for reference only.

Sliding Door Locks

All details subject to modification



Sliding and Pocket Door Locks
Suggested Specification

Sliding Door Lock SDL 7001

All heavy duty sliding door locks shall be series SDL as manufactured by FSB North America, Berlin, CT.
Locksets shall be available with backsets ranging from 2 ½" to 6" and be non-handed.
Trim designs shall be FSB and shall be matched to each specific lock type and function to ensure proper compatibility.
All heavy duty sliding door locks shall carry a 10 year limited warranty.

Steel Case
Size varies according to backset. Heavy gauge 0.093" (2.36 mm) thick, corrosion resistant zinc dichromate finish.

Armor Front and Scalp
0.188" × 1" × 5.50"
(4.8 × 25.4 × 140 mm).

Faceplate (Scalp only)
0.062" × 1" × 5.50"
(1.57 × 25.4 × 140 mm).
Wrought stainless steel, bronze or brass substrate. Finished to match.

Deadbolt
0.50" × 1.188" (12.7 × 31 mm)
× 1" (25.4 mm) throw.
Machined solid brass with stainless steel hooks.

Thumbturn Hub
0.2" (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)
5.00" (127 mm)
6.00" (152 mm)

Spacing
1.18" (30 mm) center cylinder to thumb-turn hub.

Strike
3.50" × 1" × 0.093"
(89 × 25.4 × 2.36 mm) for a single door.
Wrought stainless steel, bronze or brass substrate finished to match. Strike available for pairs of doors.

Pocket Lock/Pull SPL 7002
Pocket Strike/Pull SPL 7003

Steel Case
SPL 7002
Size varies according to backset. Heavy gauge 0.093" (2.36 mm) thick, corrosion resistant zinc dichromate finish.
SPL 7003
Size matches 2.50" (64 mm) lock case

Armor Front and Scalp
0.188" × 1" × 8"
(4.8 × 25.4 × 203 mm)

Faceplate (Scalp only)
0.062" × 1" × 8"
(1.57 × 25.4 × 203 mm).
Wrought stainless steel, bronze or brass substrate. Finished to match.

Pull
0.50" × 2" (12.7 × 50.8 mm)
× 1.25" (32 mm) throw.
Machined solid brass. Standard finishes, satin chrome or satin brass.

For SPL 7002 only:
Deadbolt
0.50" × 1.188" (12.7 × 31 mm)
× 1" (25.4 mm) throw.
Machined solid brass with stainless steel hooks.

Thumbturn Hub
0.2" (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), 5.00" (127 mm),
6.00" (152 mm)

Spacing
1.18" (30 mm) center cylinder to thumb-turn hub.

Strike
3.50" × 1" × 0.093"
(89 × 25.4 × 2.36 mm)
Wrought stainless steel, bronze and brass substrate finished to match.

For SPL 7003 only:
Strike
Double doors: integrated dust proof strike.
Wrought stainless steel, bronze or brass substrate. Finished to match.

European Sliding and Pocket Door Locks
Suggested Specification

ESL and EPL Series

All mortise locksets shall be provided from one manufacturer and be capable of accepting a European profile cylinder using the same trim designs from FSB North America.

All Sliding door locks shall carry a 5 year limited warranty.

Sliding Door Lock ESL 7001

Steel Case
3.54" × 3.35" × 0.55"
(90 × 85 × 14 mm)

Faceplate
0.157" × 0.79" × 5.91"
(3 × 20 × 150 mm)
Stainless steel, non-corroding, precision ground. Satin stainless finish only.
Flat plate with rounded ends permanently attached to the lock.

Hook Bolt
0.394" (10 mm) thick
× 0.87" (22 mm) throw.
Nickel-plated steel.

Thumbturn Hub
0.315" (8 mm) square.
90 degree rotation.

Backset
2.17" (55 mm)

Strike
0.08" × 0.79" × 4.06"
(2 × 20 × 103 mm)
Stainless steel, non-corroding.
Satin stainless finish.
Flat strike with rounded ends.

Privacy Lock/Pull EPL 7002
Strike Case/Pull EPL 7003

Steel Case
6.50" × 3.33" × 0.55"
(165 × 84.5 × 14 mm)

Faceplate
0.157" × 0.79" × 10.63"
(3 × 20 × 270 mm)
Stainless steel, non-corroding, precision ground.
Satin stainless finish only.
Flat plate with rounded ends permanently attached to the lock.

Pull
0.394" × 1.95" (10 × 49.5 mm)
× 1" (25.5 mm) throw.
Nickel-plated steel.

For EPL 7002 only:
Hook Bolt
0.394" (10 mm) thick
× 0.87" (22 mm) throw.
Nickel-plated steel.

Thumbturn Hub
0.315" (8 mm) square.
90 degree rotation.

Backset
2.17" (55 mm)

Strike
Single Doors:
0.08" × 0.79" × 4.06"
(2 × 20 × 103 mm)
Stainless steel, non-corroding.
Satin stainless finish.
Flat strike with rounded ends.

Double Doors:
Refer to EPL 7003

For EPL 7003 only:
Strike Double Doors:
Integrated strike on faceplate.
Stainless steel, non-corroding.
Satin stainless finish.
Flat strike plate with rounded ends.



Overview

- Stainless Steel
- Bronze
- Aluminum
- Brass

42 4203
42 4204
Page 252



42 4210
Page 249



42 4211
Page 251



42 4212
Page 251



42 4250
Page 245



42 4251
Page 246



42 4252
Page 247



42 4253
Page 248



42 4254
Page 247



42 4255
Page 249



42 4256
Page 250



42 4299
Page 253



SPP 7000
Page 254



EPP 7000
Page 255



Flush Pulls
for Passage Doors

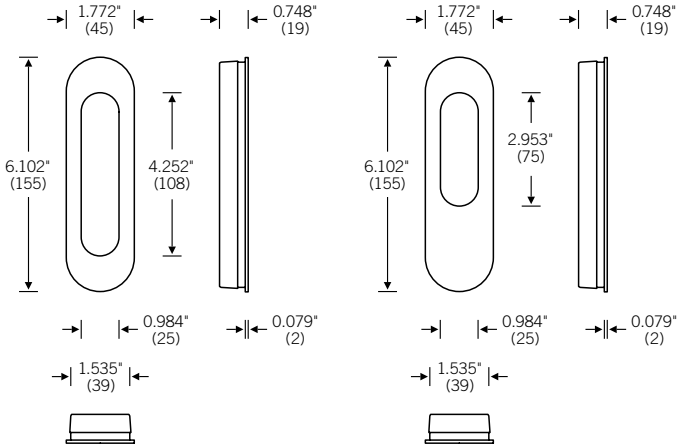
42 4250

Flush Pulls

42 4250 00000 (open)
42 4250 00001 (spring loaded cover)
42 4250 00002 (half open)

Recess 150 × R 20 × 17.5 mm
1 ¾" or greater door thickness required.





Flush Pulls
for Passage Doors

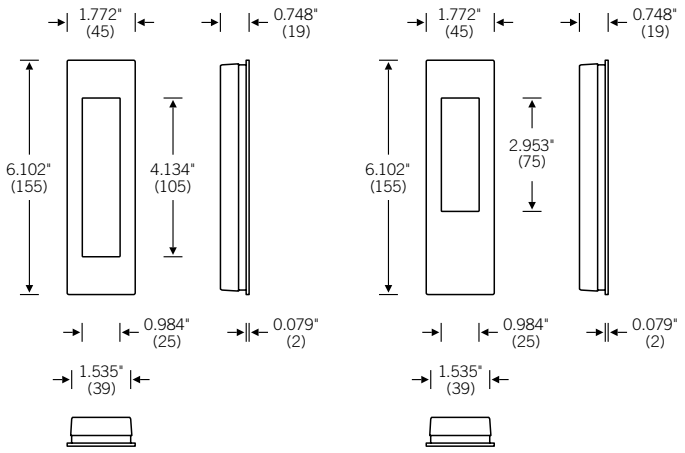
42 4251

Flush Pulls

42 4251 00000 (open)
42 4251 00001 (spring loaded cover)
42 4251 00002 (half open)

Recess 150 × R 20 × 17.5 mm
1 ¾" or greater door thickness required.





Flush Pulls
for Passage Doors

42 4252

Flush Pulls

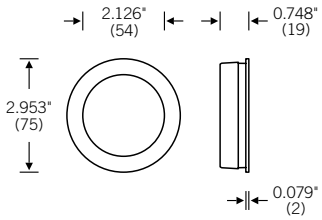
42 4252 00000 (open)
42 4252 00001 (spring loaded cover)
42 4252 00002 (half open)

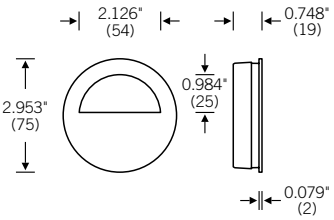
Recess 70 × 17.5 mm
1 ¾" or greater door thickness required.











42 4254

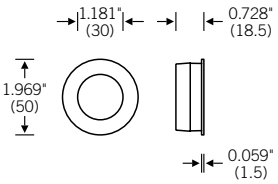
Flush Pulls

42 4254 00000 (open)
42 4254 00001 (spring loaded cover)

Recess 45 × 17.5 mm
1 ¾" or greater door thickness required.







Flush Pulls
for Passage Doors

42 4253

Flush Pulls

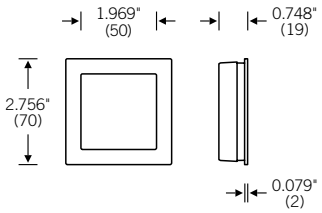
42 4253 00000 (open)
42 4253 00001 (spring loaded cover)
42 4253 00002 (half open)

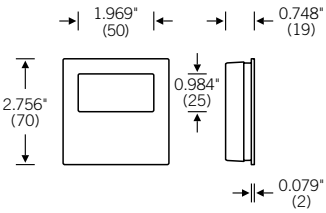
Recess 65 × 65 × 17.5 mm
Corner radius R 15
1 ¾" or greater door thickness required.











Flush Pull Sets
for Passage Doors

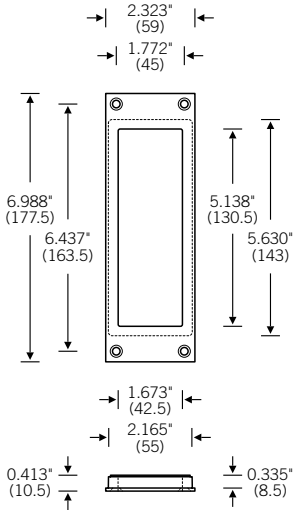
42 4210

7" (177.5 mm)

Flush Pulls

42 4210 09000





42 4255

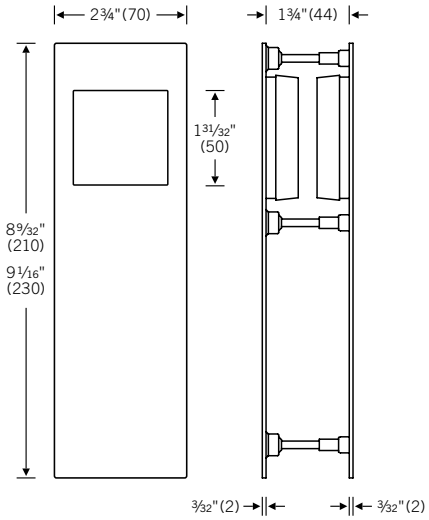
8 9⁄32" (210 mm)
9 1⁄16" (230 mm)

Flush Pulls

42 4255 09006 Set for EPL, ESL (210 mm)
42 4255 09016 Set for SDL, SPL (230 mm)
(spring loaded cover)

1 ¾" or greater door thickness required.





Flush Pulls
for Glass Doors



13 4256

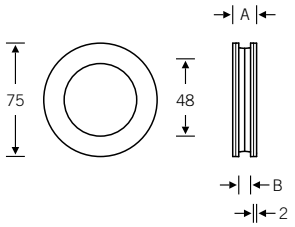
Items number	B	A
13 4256 00100	8 mm	16 mm
13 4256 00200	10 mm	18 mm
13 4256 00300	12 mm	20 mm

Glass thickness = B, total thickness = A

Open version

Pair, for inner and outer side
glass cut-out Ø 70 mm

Mounted without adhesive, screwed in pair with through fixing using 3.9 mm countersunk screws, included in delivery





13 4256

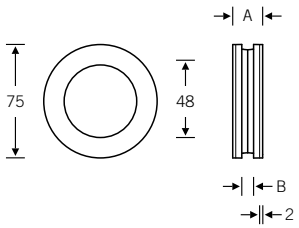
Items number	B	A
13 4256 00101	8 mm	20 mm
13 4256 00201	10 mm	22 mm
13 4256 00301	12 mm	24 mm

Glass thickness = B, total thickness = A

Closed version

Pair, for inner and outer side
glass cut-out Ø 70 mm

Mounted without adhesive, screwed congruently in pairs using 3.9 mm countersunk screws, included in delivery

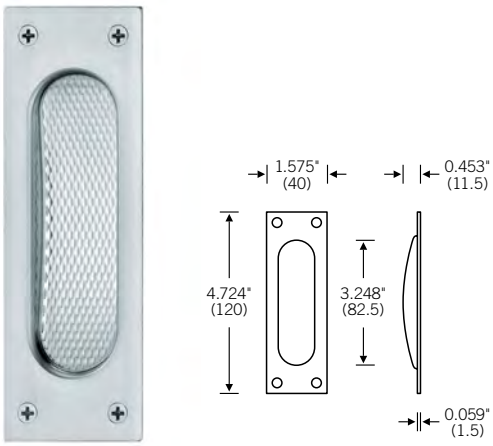


Flush Pulls
for Passage Doors

42 4211

Flush Pull

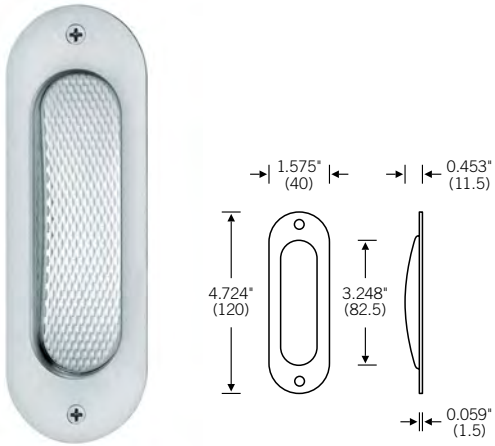
Recess 3 7⁄16 × 1 1⁄32 × 13⁄32" (87 × 28 × 10 mm)
Boreholes for 3.0 mm countersunk screws



42 4212

Flush Pull

Recess 3 7⁄16 × 1 3⁄32 × 13⁄32" (87 × 28 × 10 mm)
Boreholes for 3.0 mm countersunk screws



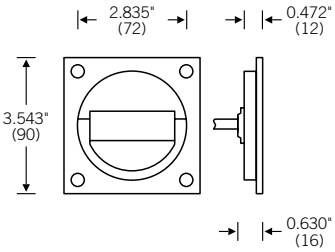
Flush Ring Handles

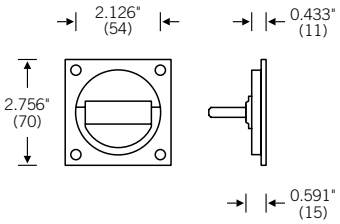
42 4203 | 42 4204

Flush Ring for Passage Doors









Flush Ring with 8 mm Square

3 17⁄32" × 3 17⁄32" (90 × 90 mm)
42 4203 00010 female
42 4203 00014 spindle

2 3⁄4" × 2 3⁄4" (70 × 70 mm)
42 4204 00010 female
42 4204 00014 spindle

Minimum 1 3⁄4" door thickness required.

Flush Ring with 5 mm Diamond

2 3⁄4" × 2 3⁄4" (70 × 70 mm)
42 4204 09003 female
42 4204 09002 spindle

Minimum 2 " door thickness required.

42 4204

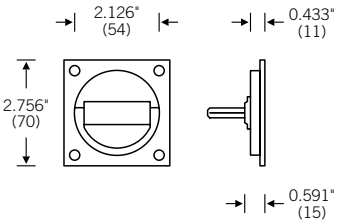
Flush Ring Set for Privacy Doors

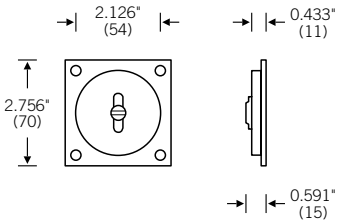
42 4204 09001 Flush Ring Set with 5 mm Diamond Spindle

42 4204 09000 Flush Ring Set with 8 mm Square Spindle









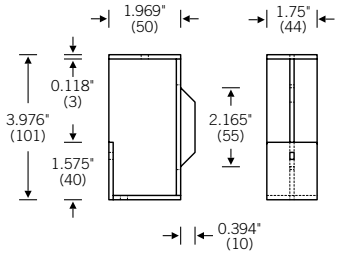
Edge/Flush Pulls
for Wood Doors



42 4299

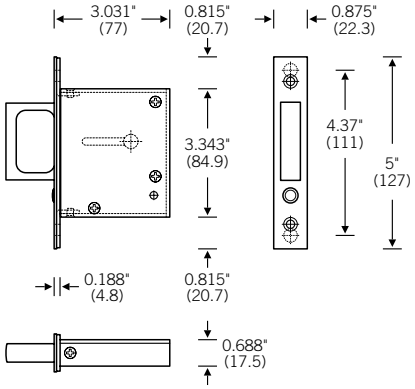
42 4299 00025
1 ¾" (45 mm) Door Thickness

Square Corners



Edge Pull
for Pocket Doors





SPP 7000

Spring Loaded Edge Pull

Finger pull remains flush with the edge of the door until the button is pressed. Pushing button projects finger pull.

As standard, the finger pull and button is always supplied in satin brass or satin chrome. Custom finishes are available on request.

Steel Case
3.343" × 3.031" × 0.688"
(84.9 77 × 17.5 mm)
Heavy gauge 0.093" (2.36 mm) thick, corrosion resistant zinc dichromate finish.

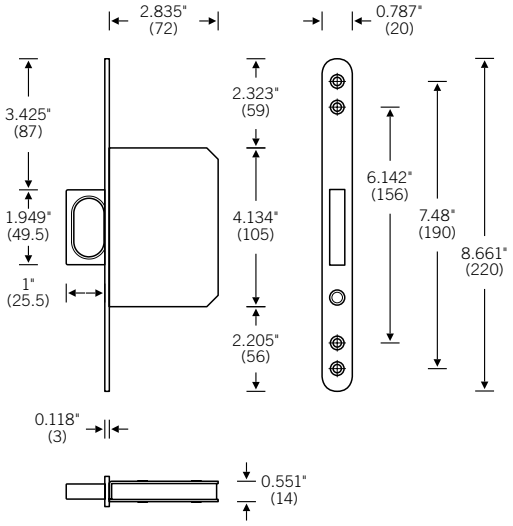
Armor Front and Scalp
0.188" × 0.875" × 5.50"
(4.8 × 22.3 × 140 mm).

Faceplate (Scalp only)
0.062" × 1" × 5.50"
(1.57 × 25.4 × 140 mm).
Wrought stainless steel.

Pull
0.50" × 2" (12.7 × 50.8 mm)
× 1.25" (32 mm) throw.
Machined solid brass.

Edge Pull
for Pocket Doors





EPP 7000

Spring Loaded Edge Pull

Finger pull remains flush with the edge of the door until the button is pressed. Pushing button projects finger pull.

As standard, the finger pull and button is always supplied in nickel-plated steel and the faceplate in stainless steel.

Steel Case
4.13" × 2.95" × 0.55"
(105 × 75 × 14 mm)
Case not enclosed.
0.057" (1.45 mm) thick, steel.

Faceplate (Forend)
0.157" × 0.79" × 8.66"
(3 × 20 × 220 mm)
Stainless steel, non-corroding, precision ground. Satin stainless finish only. Flat forend plate with rounded ends.

Pull
0.394" × 1.95" (10 × 49.5 mm)
× 1" (25.5 mm) throw.
Nickel-plated steel.



Multi-Point Trim
NMP and EMP Series

Quality

FSB offers a full range of multi-point trim to fit both North American and European multi-point locksets.
For your convenience, we offer trim sets which include the escutcheon, spindle, and screws for 1¾" thick doors and your choice of lever. FSB also offers multi-point escutcheons separately to meet your custom needs.

Design Advantage

FSB has a wide selection of designer levers options for our multi-point trim kits.
We also offer an even greater selection of individual lever and multi-point escutcheons to meet your customer design requirements.

All details subject to modification

Specifying Multi-Point Trim

North American (NMP)
European (EMP) Multi-Point

Lock Type

NMP

Trim Function

C

Insert your choice of function using one of the letter codes below

C Passage
H Entrance
T Patio

Lever Design

1003

Insert your choice of lever design using one of the four digit codes.

Premium/Elements

1001*	**1078**
1002*	**1080**
1003	**1088**
1004	**1093**
1005	**1102**
1015	**1106**
1016	**1107**
1020*	**1108**
1021	**1119**
1023	**1134**
1025	**1144**
1027	**1146**
1028	**1147**
1031	**1160**
1034*	**1163**
1035	**1164**
1045	**1176**
1051*	**1177**
1053	**1178**
1057	**1183**
1058	**1185***
1070	**1241***
1074	**1251^**
1075	**1257***
1076	**1241***
1077*	

^ Stainless Steel Only
* Elements Only

Trim Set

ED

Insert your choice of escutcheon using one of the two letter codes.

ED Long Rectangular

Only the ED Escutcheon is available with the NMP trim set. Supplied with standard thumbturn.

Lock Type

EMP

Trim Function

C

Insert your choice of function using one of the letter codes below

C Passage
H Entrance
T Patio

Trim Set

ED

Insert your choice of escutcheon using one of the two letter codes.

ED Long Rectangular

Only the ED Escutcheon is available with the EMP trim set. Supplied with standard thumbturn.

All details subject to modification

Example for Specifying (Specification is for trim only)

NMP - C - 1003 - ED - 6204 - 134

Material and Finish

6204

Insert your choice of material and finish using one of the codes below.

Premium
Stainless Steel

6204 Satin (630)
6205 Polished (629)

Bronze

7305 Polished, Waxed (611)
7615 Aged, Waxed (615)
7625 Dark Oxidized, Waxed (613)

Elements
Aluminum Anodized

0105 Natural Color (628)
0205 Champagne Silver Color
0410 Bronze Color
0510 Medium Bronze Color
0710 Dark Bronze Color (710)
0810 Black Color (711)

Aluminum Powder Coated

8120 Black (671)
8220 White (714)

Door Thickness

134

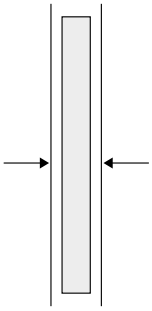
Multi-point trim sets are supplied standard for 1¾" door thickness.

Standard

134 1¾"
214 2¼"

Special Order

All sizes over 2¼" thick please consult FSB.

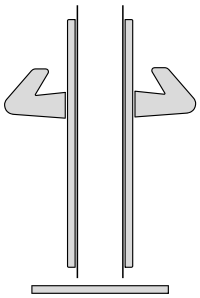


All details subject to modification

North American Multi-Point Sets
Lever on Top

Function C

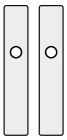
Passage

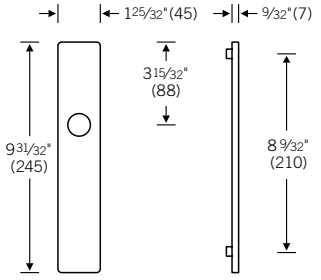


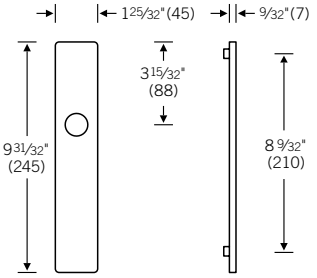
Straight Spindle

Set Includes:
2 Escutcheons
2 Levers
1 Spindle
2 Screws
2 Nuts

Lever on Top

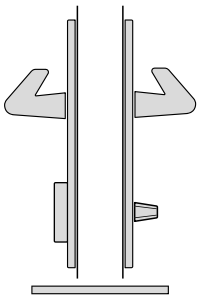






Function H

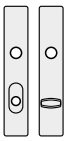
Entrance

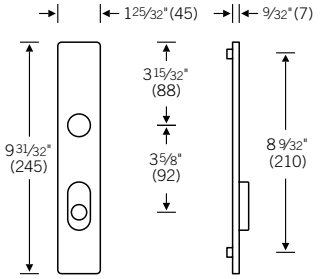


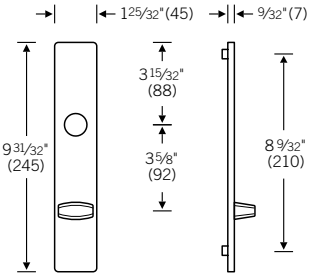
Straight Spindle

Set Includes:
2 Escutcheons
2 Levers
1 Cylinder / Thumbturn
1 Spindle
2 Screws
2 Nuts

Lever on Top

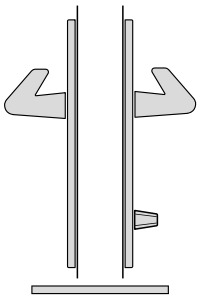






Function T

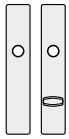
Patio

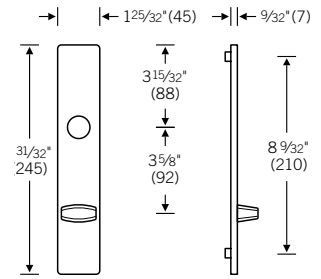


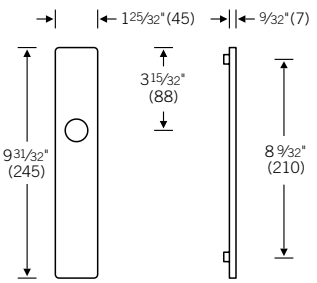
Straight Spindle

Set Includes:
2 Escutcheons
2 Levers
1 Thumbturn
1 Spindle
2 Screws
2 Nuts

Lever on Top





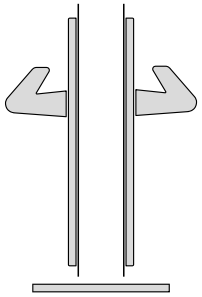


All details subject to modification

European Multi-Point Sets
Lever on Top

Function C

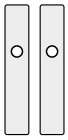
Passage

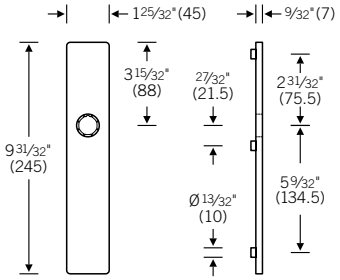


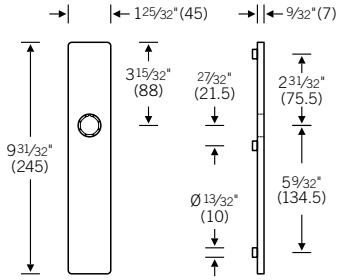
Straight Spindle

Set Includes:
2 Escutcheons
2 Levers
1 Spindle
3 Screws
3 Nuts

Lever on Top

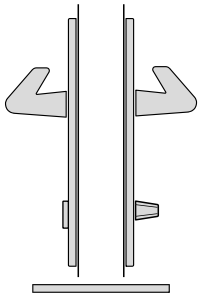






Function H

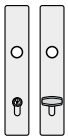
Entrance

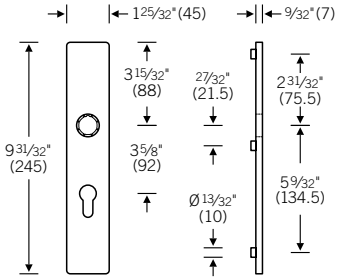


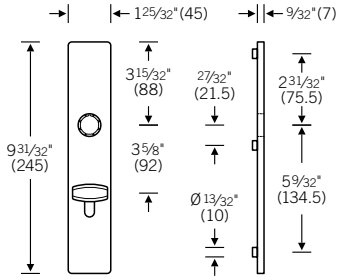
Straight Spindle

Set Includes:
2 Escutcheons
2 Levers
1 Cylinder / Thumbturn
1 Spindle
3 Screws
3 Nuts

Lever on Top

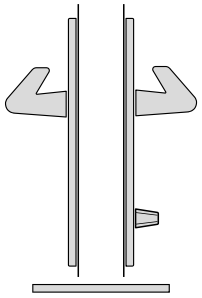






Function T

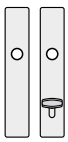
Patio

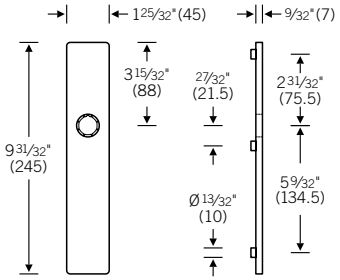


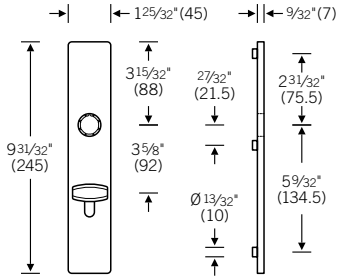
Straight Spindle

Set Includes:
2 Escutcheons
2 Levers
1 Thumbturn
1 Spindle
3 Screws
3 Nuts

Lever on Top







All details subject to modification

North American Multi-Point Escutcheon Plates for Swinging Doors 1410 Series

ED

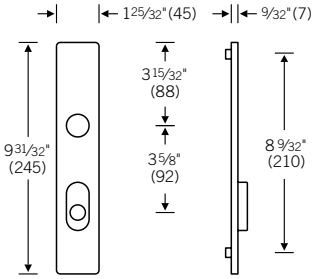
14 1410 09023

Cylinder | 9 31/32" (245 mm)



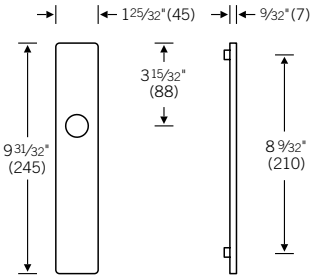
Cylinder

14 1410 09023



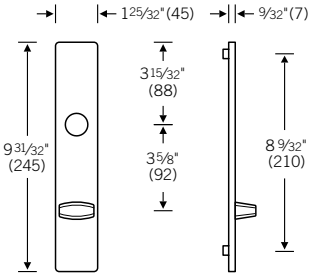
Lever only

14 1410 09021



Thumbturn

14 1410 09022



Multi-Point

All details subject to modification

European Rectangular Multi-Point Escutcheon Plates for Swinging Doors

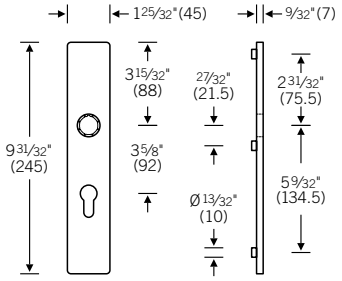
ED

12 1410 19112
9 31⁄32" (245 mm)



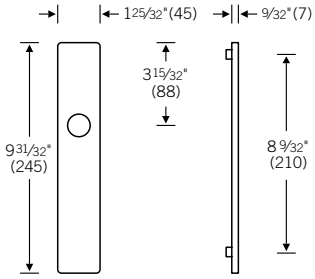
Cylinder

12 1410 19112



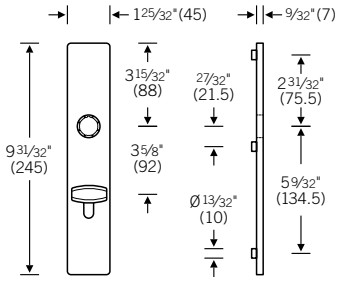
Lever only

14 1410 09021



Thumbturn

12 1410 19112 and 88 8812 00230
(2 1⁄4" door use 88 8812 00245)



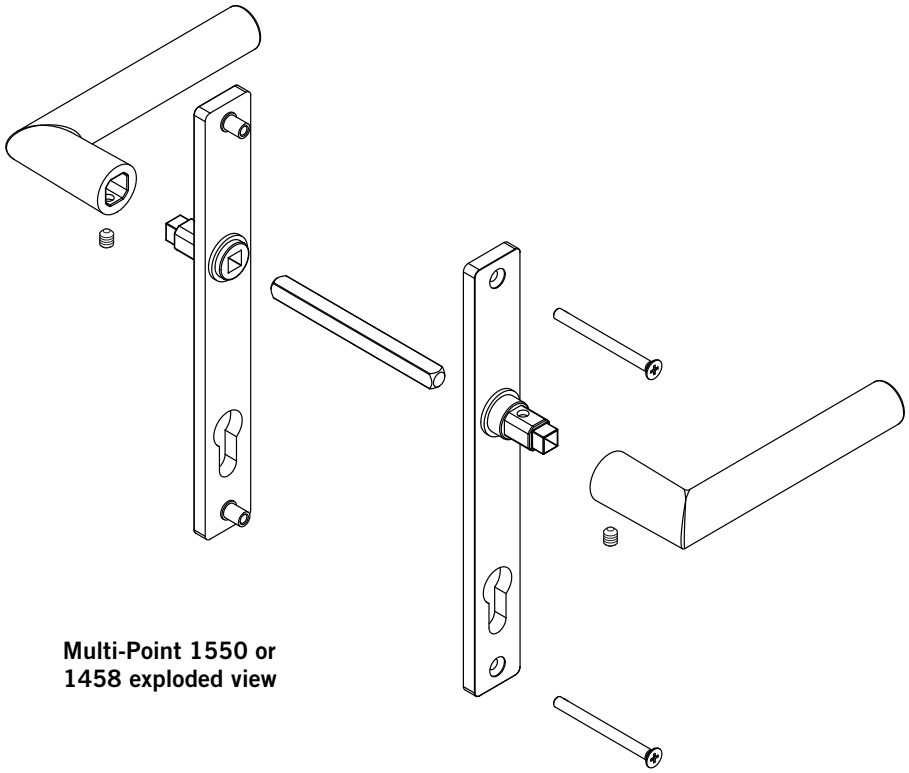
All details subject to modification

Multi-Point

Multi-Point Custom Ordering Information

When ordering 1550 (page 266) or 1458 custom laser cut escutcheon (page 267) please refer to the illustration and the lock function guide below to insure you have ordered everything you will need to operate your lock.

When ordering the 1458 customer laser cut escutcheon please complete the form on page 267 and submit with your order.



Multi-Point 1550 or 1458 exploded view

1 ¾" Door Thickness

Passage Trim Set
2 - Levers - See lever overview on page 21
2 - Escutcheons - 14 1550 01001 x Desired Finish
1 - Spindle and fastener pack - 05 0553 1000 000

Entrance Trim Set
2 - Levers - See lever overview on page 21
2 - Escutcheons - 14 1550 010102 x Desired Finish
1 - Cylinder - 88 8812 00164
1 - Spindle and fastener pack - 05 0553 1000 000

Patio Trim Set
2 - Levers - See lever overview on page 21
1 - Escutcheon - 14 1550 01001
1 - Escutcheon - 14 1550 01012
1 - Thumbturn - 88 8812 00230
1 - Spindle and fastener pack - 05 0553 1000 000

2" to 2 ¼" Door Thickness

Passage Trim Set
2 - Levers - See lever overview on page 21
2 - Escutcheons - 14 1550 01001 x Desired Finish
1 - Spindle and fastener pack - 05 0553 1002 000

Entrance Trim Set
2 - Levers - See lever overview on page 21
2 - Escutcheons - 14 1550 01012 x Desired Finish
1 - Cylinder - 88 8812 00170
1 - Spindle and fastener pack - 05 0553 1002 000

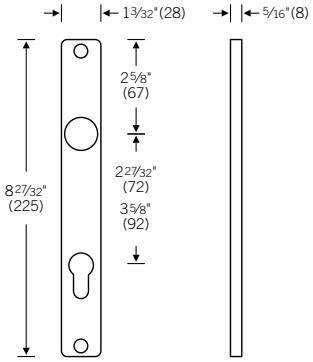
Patio Trim Set
2 - Levers - See lever overview on page 21
1 - Escutcheon - 14 1550 01001
1 - Escutcheon - 14 1550 01012
1 - Thumbturn - 88 8812 00235
1 - Spindle and fastener pack - 05 0553 1002 000

All details subject to modification

European Narrow Multi-Point Escutcheon with Visible Fasteners

14 1550 01012 PZ 92 mm

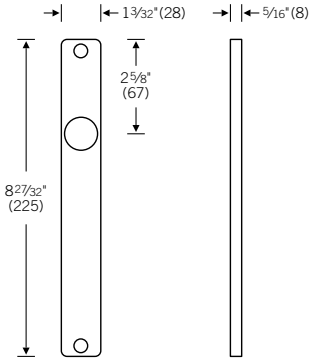




Can not be ordered in sets, must be ordered separately.
See Multi-Point sets beginning on page 261.

Lever Only

14 1550 01001

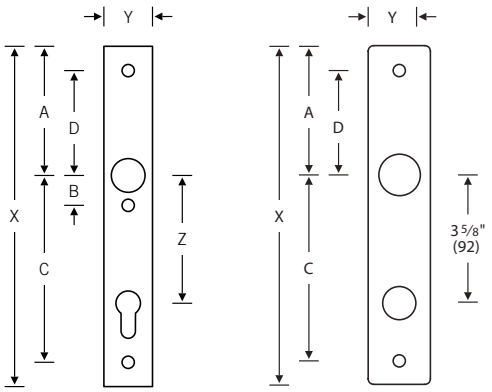


All details subject to modification

Laser Cut Escutcheon and Multi-Point Dimension Chart

Special Length Laser Cut Escutcheon

14 1458 00299



PZ Cylinder **Mortise Cylinder**

Please complete form and send to FSB for pricing

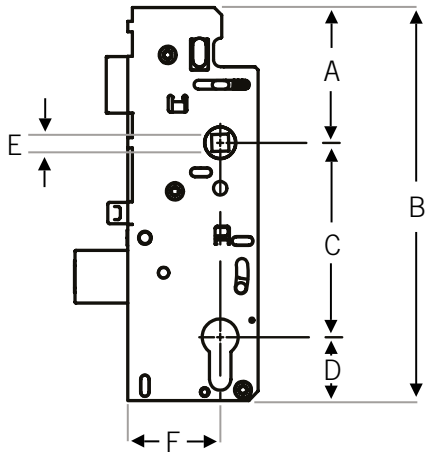
	PZ Cylinder	Mortise Cylinder
Escutcheon Thickness	☐ 3 mm ☐ 5 mm	☐ 3 mm ☐ 5 mm
Door Thickness		
Length X		
Width Y		
Dimension A		
Dimension B		
Dimension C		
Dimension D		
Spacing Z		
Holes		
Screw Fasteners (visibility)	☐ one side ☐ both sides	☐ one side ☐ both sides
Handle Bearing	☐ loose ☐ turnably fixed*	☐ loose ☐ turnably fixed*

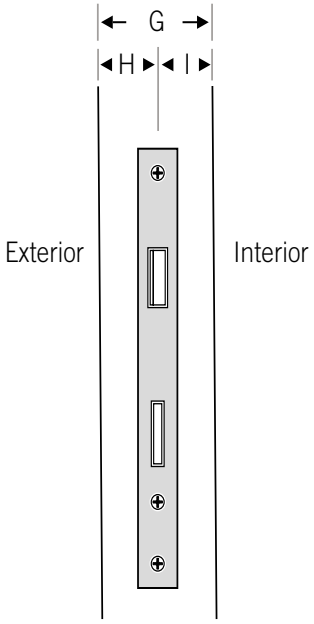
* only for screws visible one side
Please specify 6204 or 6205 finish.

Multi-Point

All details subject to modification

Multi-Point Lock Dimension Chart





	Multi-Point Measurements
Lock Manufacturer	
Function	
Dimension A	
Dimension B	
Dimension C	
Dimension D	
Dimension E	
Dimension F	
Dimension G	
Dimension H	
Dimension I	

Key:
A = Center of Lever Hub to Top of Lock Case
B = Top of Lock Case to Bottom of Lock Case
C = Center of Cylinder to Center of Lever Hub
D = Center of Cylinder to Bottom of Lock Case
E = Lever Hub Size
F = Backset
G = Width of Door
H = Center of Lock to Exterior Face of Door
I = Center of Lock to Interior Face of Door

All details subject to modification

Specifying Lift and Slide Trim
Lift and Slide (LNS)

Lock Type	Trim Function	Lever Design	Trim Set
LNS	C	1004	MTR
	Insert your choice of function using one of the letter codes below	Insert your choice of lever design using one of the four digit codes.	Insert your choice of trim using one of the letter codes.
	C Passage **H** Entrance **T** Patio	**Levers** **1004** **1016** **1076** **1102** **1146** **1242**	**SH** Short Flush Pull **LH** Long Flush Pull **MTR** MTR Trim Sets are supplied less cylinder.

Example for Specifying (Specification is for trim only)

LNS - C - 1004 - LH - 6204 - 134

Material and Finish

6204

Insert your choice of material and finish using one of the codes below.

Premium
Stainless Steel

- **6204** Satin (630)
- **6205** Polished (629)

Bronze

- **7305** Polished, Waxed (611)
- **7615** Aged, Waxed (615)
- **7625** Dark Oxidized, Waxed (613)

Elements
Aluminum Anodized

- **0105** Natural Color (628)
- **0205** Champagne Silver Color
- **0410** Bronze Color
- **0510** Medium Bronze Color
- **0710** Dark Bronze Color (710)
- **0810** Black Color (711)

Aluminum Powder Coated

- **8120** Black (671)
- **8220** White (714)

Door Thickness

134

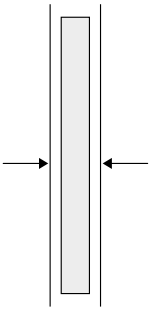
Lift and Slide trim sets are supplied standard for 2 ¼" door thickness.

Standard

214 2¼"

Special Order

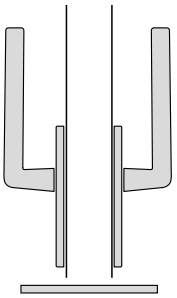
All sizes other than 2¼" thick please consult FSB.



Lift and Slide Sets

Function C

Passage

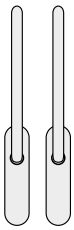


Straight Spindle

Passage Lever by Lever

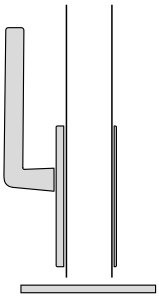
Set Includes:
2 Escutcheons
2 Handles
1 Spindle
2 Screws
2 Nuts

Trim Options



Function C

Passage

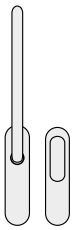


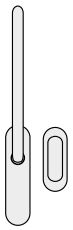
Straight Spindle

Passage Lever by Flush Pull

Set Includes:
1 Escutcheon
1 Handles
1 Long or Short Flush Pull
1 Spindle
2 Screws

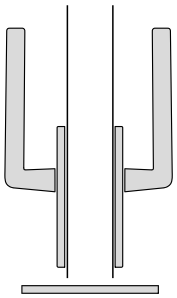
Trim Options





Function H

Entrance

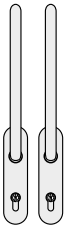


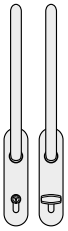
Straight Spindle

Entrance Lever by Lever

Set Includes:
2 Escutcheons
2 Handles
1 Spindle
2 Screws
2 Nuts

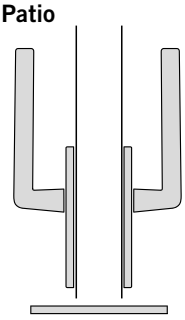
Trim Options





Function T

Patio

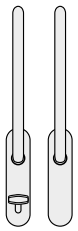


Straight Spindle

Patio Lever by Lever

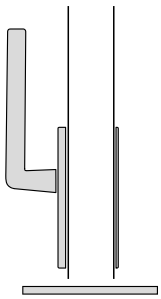
Set Includes:
2 Escutcheons
2 Handle
1 Spindle
2 Screws
2 Nuts

Trim Options



Function T

Patio

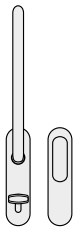


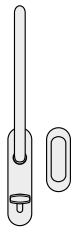
Straight Spindle

Patio Lever by Flush Pull

Set Includes:
1 Escutcheon
1 Handle
1 Long or Short Flush Pull
1 Spindle
2 Screws

Trim Options





Lift and Slide Handles

34 1004

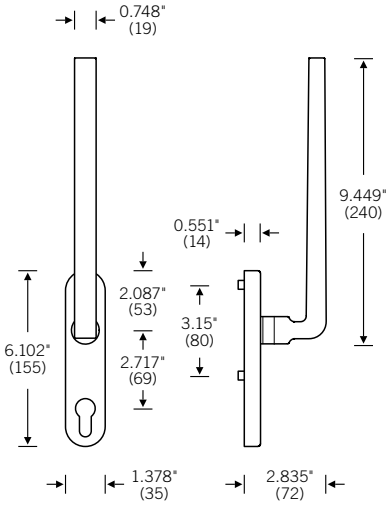


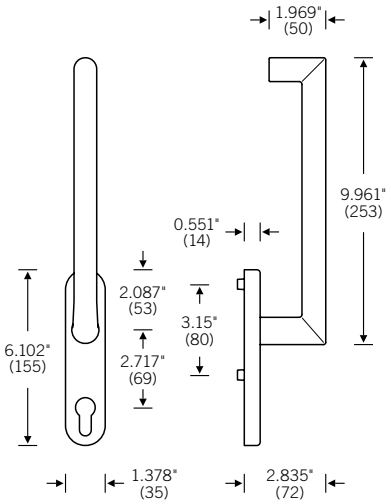
34 1016



Lift and Slide handles with 180° click-stop, swivel-mounted, invisible screws, 10 mm □ spindle

Matching flush pulls FSB 42 4215
see page 294





.... 01100
without keyhole, with M6 threaded lugs, for through bolting combined with design 002

.... 01101
with profile cylinder keyhole, with M6 threaded lugs, for through bolting combined with design 003

Lift and Slide Handles

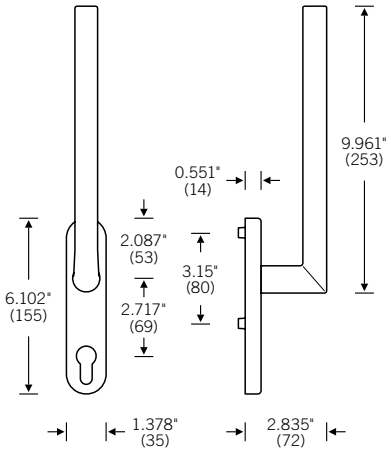
34 1076

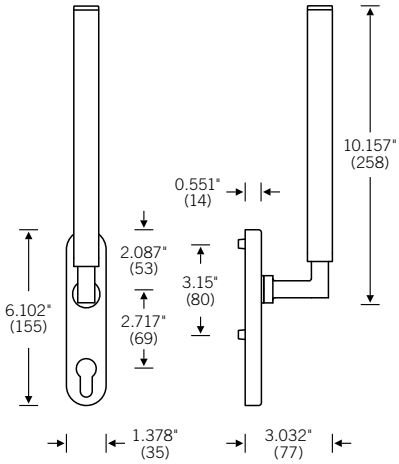
34 1102

Lift and Slide handles with 180° click-stop, swivel-mounted, invisible screws, 10 mm ☐ spindle

Matching flush pulls FSB 42 4215
see page 294







.... 01100
without keyhole, with M6 threaded lugs, for through bolting combined with design 002

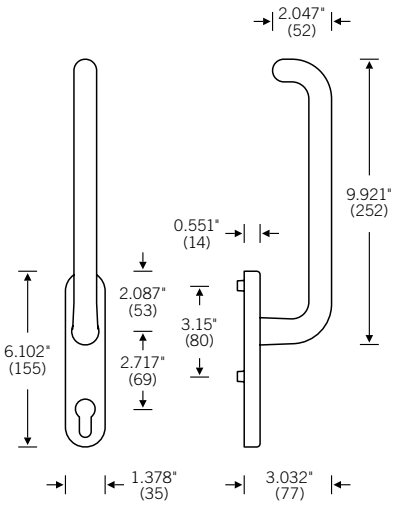
.... 01101
with profile cylinder keyhole, with M6 threaded lugs, for through bolting combined with design 003

34 1146

Lift and Slide handles with 180° click-stop, swivel-mounted, invisible screws, 10 mm ☐ spindle

Matching flush pulls FSB 42 4215
see page 294





.... 01100
without keyhole, with M6 threaded lugs, for through bolting combined with design 002

.... 01101
with profile cylinder keyhole, with M6 threaded lugs, for through bolting combined with design 003

Flush Pulls
for Lift and Slide Handles

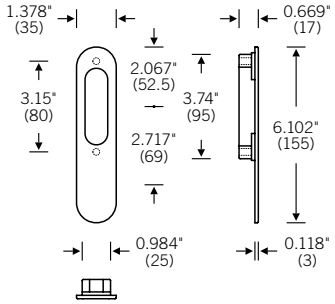
42 4215

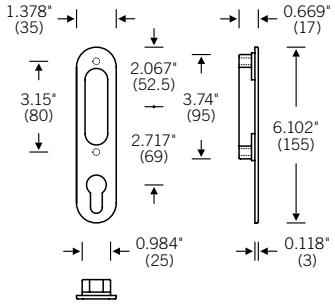


42 4215 00000 (without keyhole)
42 4215 00002 (with profile cylinder keyhole)

Must be used with 34 1004, 34 1016, 34 1076, 34 1102 or 34 1146 found on page 291, 292 and 293.

M6 threaded screws





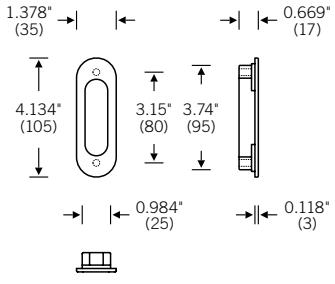
42 4215 01000



Flush Pull

Must be used with 34 1004, 34 1016, 34 1076, 34 1102 or 34 1146 found on page 291, 292 and 293.

M6 threaded screws





Glass Locks Overview

EGS

13 4220

Page 283, 284





EGR

13 4223

Page 285, 286





EGC

13 4224

Page 287, 288




13 4230

Page 289



All details subject to modification

Materials and Finishes

Premium

- Stainless Steel
- 6204 (630)
- 6205 (629)

Elements

- Aluminum
- 0105 (628)
- 0205
- 0410
- 0510
- 0710 (710)
- 0810 (711)
- Powder Coated

Specifying Glass Locksets

European Swinging Glass Door Locks (EGS, EGR and EGC)

Glass Lock Type

EGS

Insert your choice of glass door lock

EGS European Glass Door Lock, Square Edge
EGR European Glass Door Lock, Round Edge
EGC European Glass Door Lock, Compact

Lock Functions

C

Insert your choice of function using one of the letter codes below.

A Store Door
C Passage
E Privacy
H Entrance

European Glass Door Locks do not have Emergency Egress Function.

Lever Design

1147

Insert your choice of lever or knob design using one of the four digit codes.

Premium/Elements

1001*	**1078**
1002*	**1080**
1003	**1088**
1004	**1093**
1005	**1102**
1015	**1106**
1016	**1107**
1020*	**1108**
1021	**1119**
1023	**1134**
1025	**1144**
1027	**1146**
1028	**1147**
1031	**1160**
1034*	**1163**
1035	**1164**
1045	**1176**
1051*	**1177**
1053	**1178**
1057	**1183**
1058	**1185***
1070	**1241***
1074	**1251^**
1075	**1257***
1076	**1259***
1077*	

^ Stainless Only
* Elements Only

Trim Set

RA

Insert your choice of trim set using one of the two letter codes.

Optional Trim Set

FL Patch fitting only
RA Rose 2 3/16" (55 mm) (EGS + EGR only)

Thumbturn and Indicator

S

Insert your choice of indicator if necessary.

Thumbturns



S Standard thumbturn available with all roses and escutcheons

Emergency Releases



N



I

Glass Door Locks

All details subject to modification

Example for Specifying

EGS - H - 1147 - RA - S - 6204 - 231 - E1 - RH - 010

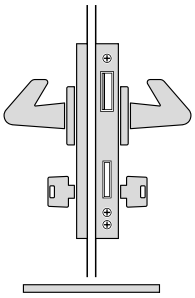
Material and Finish	Backset	Strike	Handing	Door Thickness
6204	**231**	**E1**	**RH**	**010**
Insert your choice of material and finish using one of the codes below.	Available with 2 3/16" backset only	Insert your choice of strike using one of the two letter codes below	Insert your choice of hand using one of the two letter codes below	Insert your choice of door thickness using one of the three digit codes.
Premium Stainless Steel **6204** Satin (630) **6205** Polished (629)	**231** 2 3/16" Backset (55 mm)	**Standard** **E1** Standard **E2** Full Patch Strike	**RH** Right Hand **LH** Left Hand **RR** Right Hand Reverse **LR** Left Hand Reverse	**008** 8 mm **010** 10 mm **012** 12 mm
Elements Aluminum Anodized **0105** Natural Color (628) **0205** Champagne Silver Color **0410** Bronze Color **0510** Medium Bronze Color **0710** Dark Bronze Color (710) **0810** Black Color (711)				
Aluminum Powder Coated **8120** Black (671) **8220** White (714)				

All details subject to modification

European Glass Door Lock for Swinging Doors
Functions

Function A

Store Door

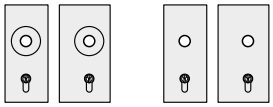


Description
Latch bolt by handle either side.
Deadbolt by key either side.
European profile cylinder.

Lever to cylinder center-to-center:
2 13/16" (72 mm).

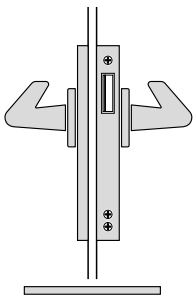
Trim Sets

RA **FL**



Function C

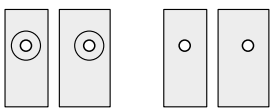
Passage



Description
Latch bolt by handle either side.

Trim Sets

RA **FL**

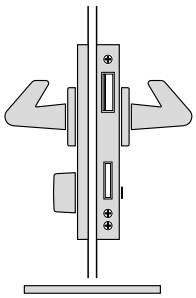


All details subject to modification

European Glass Door Lock for Swinging Doors
Functions

Function E

Privacy

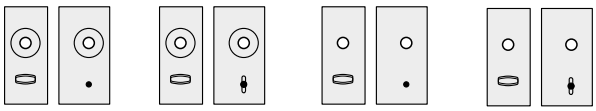


Description
Latch bolt by handle either side.
Deadbolt by emergency release outside and thumbturn inside connected by 8 mm spindle on the square.

Lever to thumbturn center-to-center:
3 1⁄16" (78 mm).

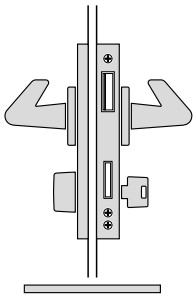
Trim Sets

RA-SN **RA-SI** **FL-SN** **FL-SI**



Function H

Entrance

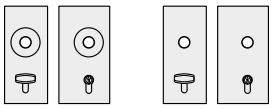


Description
Latch bolt by handle either side.
Deadbolt by key outside and thumbturn inside.
European profile cylinder.

Lever to thumbturn center-to-center:
2 13⁄16" (72 mm).

Trim Sets

RA-S **FL-SI**



All details subject to modification

European Glass Door Lock
for Swinging Doors



Series EGS

13 4220 041 ■□■ (LH)
13 4220 051 ■□■ (RH)

Rectangular lockset plate with cover plates with heavy-duty glass door lock (DIN 18251, analogous to Class 4)

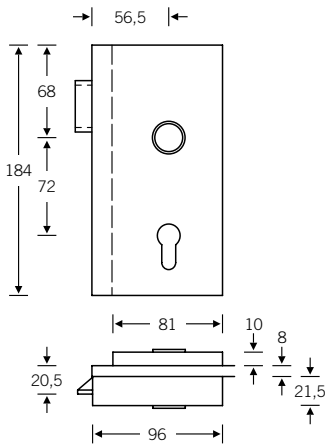
PZ cylinder CTC 72 mm

The handle shown is illustrative. Virtually any other FSB handle could be used instead.

European Glass Door Locks do not have Emergency Egress Function.



13 4220 042 ■□■ (LH)
13 4220 052 ■□■ (RH)



Technical notes:
Dimensions given assume glass 8 mm thick. Lockset plates for glass doors are prepared at the factory for glass 8 mm, 10 mm or 12 mm thick. Please specify.

Lock Functions are listed beginning on page 281.

All details subject to modification

Strike Box
for Glass Walls or Pairs

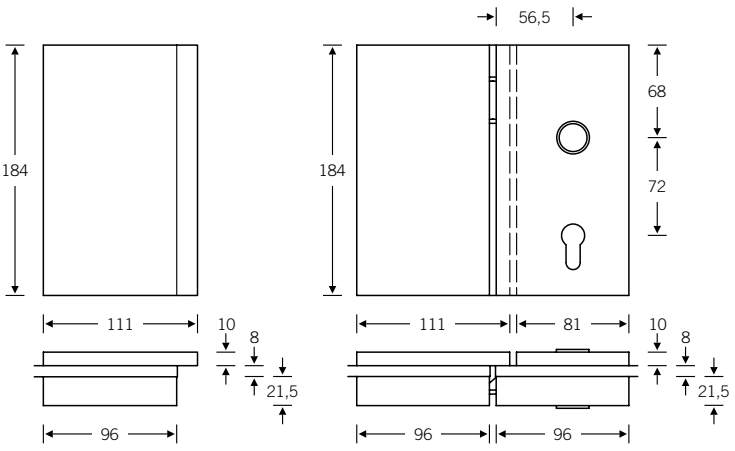


13 4220

13 4220 045 ■□■ (LH)
13 4220 055 ■□■ (RH)

Rectangular strike box to suit lockset plates for glass doors 4220 041/051 and 4220 042/052.

The strike box must be ordered in the hand opposite of the lock.



Technical notes:
Dimensions given assume glass 8 mm thick.
Strike boxes are prepared at the factory for glass 8 mm, 10 mm or 12 mm thick. Please specify.

All details subject to modification

European Glass Door Lock
for Swinging Doors



Series EGR

13 4223 041 ■□■ (LH)
13 4223 051 ■□■ (RH)

Rectangular lockset plate rounded corners with cover plates with heavy-duty glass door lock (DIN 18251, analogous to Class 4)

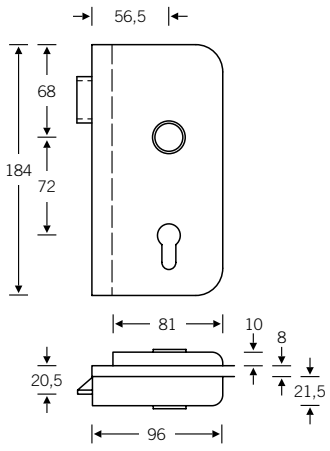
PZ cylinder CTC 72 mm

The handle shown is illustrative.
Virtually any other FSB handle could be used instead.

European Glass Door Locks do not have Emergency Egress Function.



13 4223 042 ■□■ (LH)
13 4223 052 ■□■ (RH)



Technical notes:
Dimensions given assume glass 8 mm thick. Lockset plates for glass doors are prepared at the factory for glass 8 mm, 10 mm or 12 mm thick. Please specify.

Lock Functions are listed beginning on page 281.

All details subject to modification

Strike
for Glass Walls or Pairs

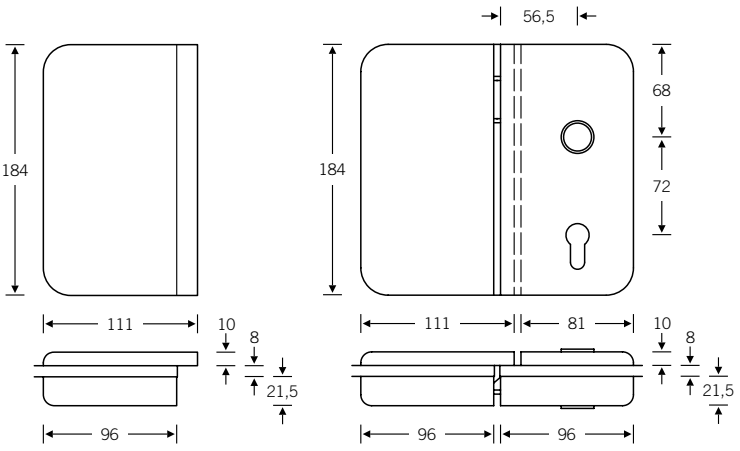


13 4223

13 4223 045 ■□■ (LH)
13 4223 055 ■□■ (RH)

Rectangular strike box rounded corners to suit lockset plates for glass doors 4223 041/051 and 4223 042/052.

The strike must be ordered in the hand opposite of the lock.



Technical notes:
Dimensions given assume glass 8 mm thick.
Strike boxes are prepared at the factory for glass 8 mm, 10 mm or 12 mm thick.

All details subject to modification

European Glass Door Lock
for Swinging Doors



Series EGC

13 4224 042 ■□■ (LH)
13 4224 052 ■□■ (RH)

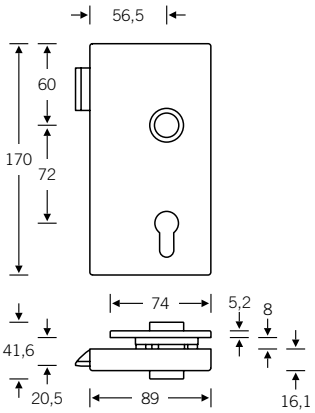
Heavy-duty bearing
Rectangular lockset plate compact with cover plates with heavy-duty glass door lock (DIN 18251, Class 4)

PZ cylinder CTC 72 mm

8 mm split follower
cast-steel latch

The handle shown is illustrative. Virtually any other FSB handle could be used instead.

European Glass Door Locks do not have Emergency Egress Function.



Technical notes:
Dimensions given assume glass 8 mm thick. Lockset plates for glass doors are prepared at the factory for glass 8 mm, 10 mm or 12 mm thick. Please specify.

Lock Functions are listed beginning on page 281.

All details subject to modification

Strike
for Glass Walls or Pairs

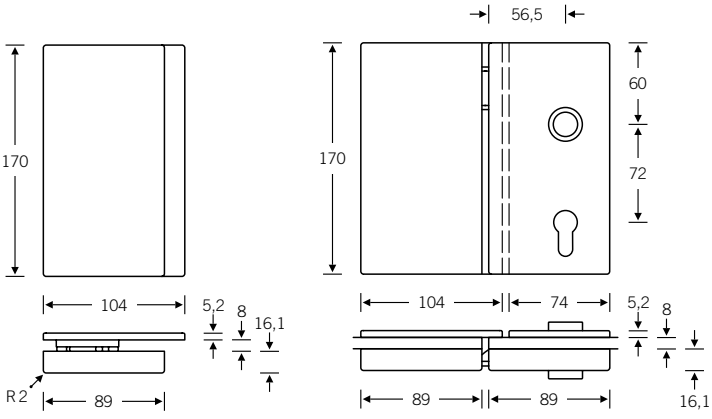


13 4224

13 4224 045 ■□ (LH)
13 4224 055 ■□ (RH)

Rectangular strike box compact to suit lockset plate for glass doors 4224 042/052.

The strike must be ordered in the hand opposite of the lock.



Technical notes:
Strike boxes are prepared at the factory for 8 mm, 10 mm or 12 mm glass. Please specify.

All details subject to modification

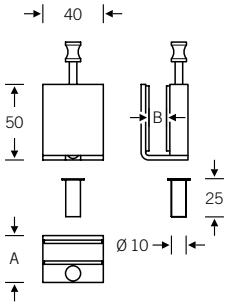
Door Holder



13 4230

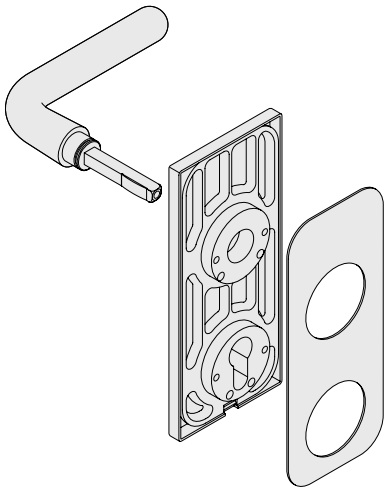
Item number	A	B
13 4230 000	27 mm	8 mm
13 4230 010	29 mm	10 mm
13 4230 012	31 mm	12 mm

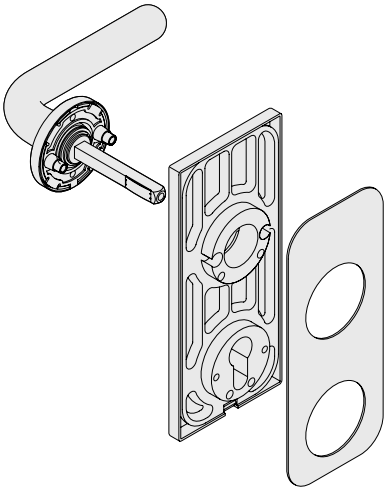
A = width overall, B = thickness of glass

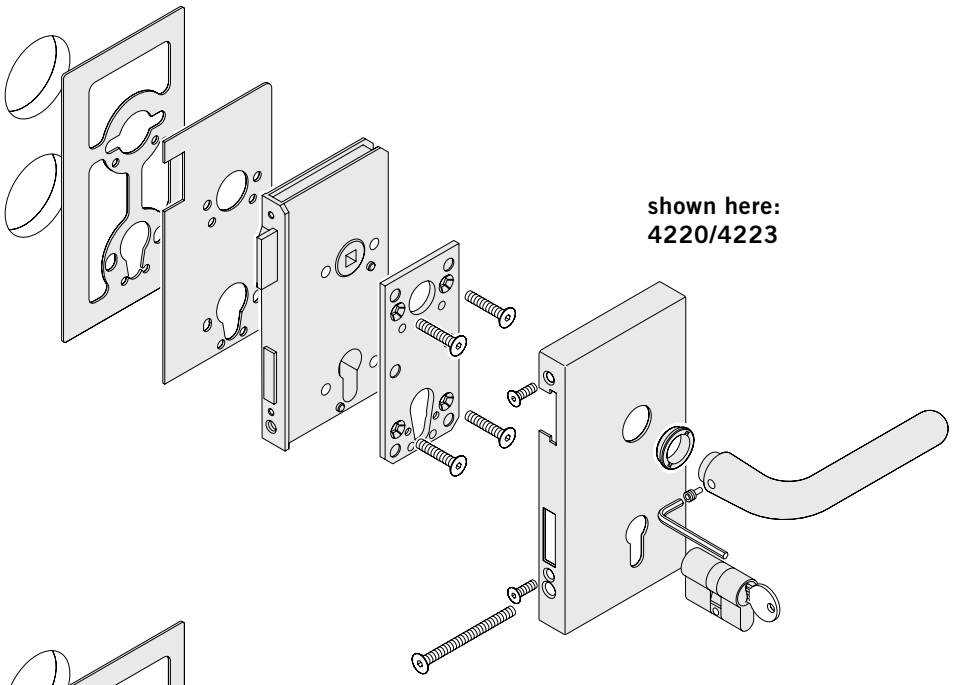


All details subject to modification

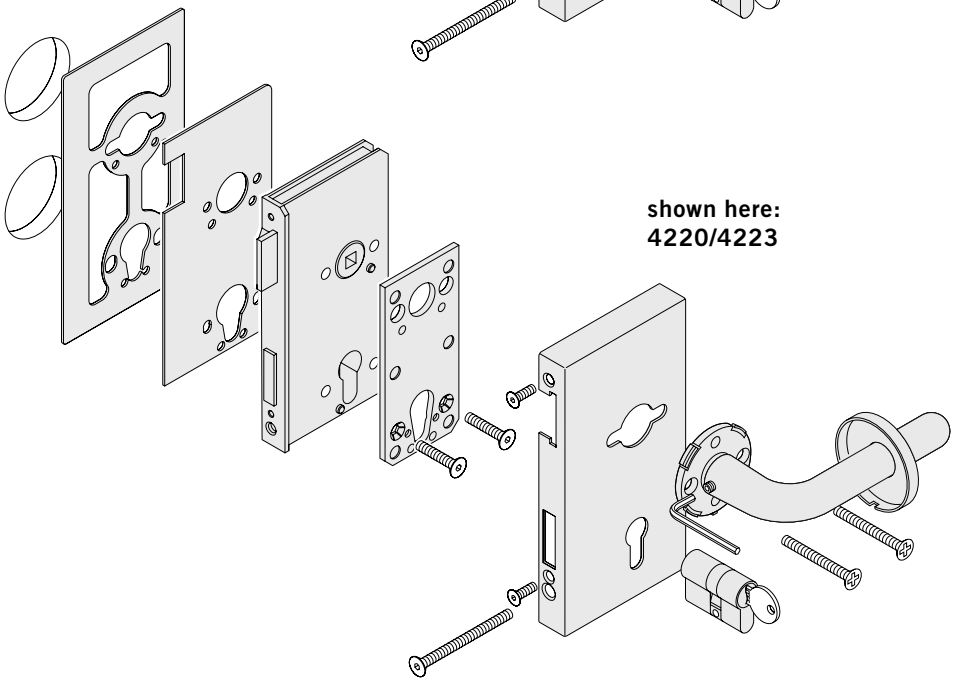
European Glass Door Lock
Installation







shown here:
4220/4223



shown here:
4220/4223

All details subject to modification


Bilsom
VIKING
V1

Door Pulls and Fixed Knobs

293 Overview
297 Pull Handles
345 Fastening
355 Fixed Door Knobs

Pulls and Fixed Knobs Overview

66 6506
Page 301



66 6507
Page 302



66 6514
Page 300



66 6519
Page 303



66 6520
Page 304



66 6526
Page 307



66 6533
Page 309



66 6534
Page 309



66 6535
Page 310



66 6536
Page 310



66 6537
Page 311



66 6538
Page 312



66 6540
Page 313



66 6541
Page 314



66 6542
Page 315



66 6546
Page 316



66 6548
Page 305



66 6602
Page 319



66 6610
Page 317



66 6611
Page 317



66 6612
Page 318



66 6613
Page 318



66 6615
Page 321



66 6616
Page 322



66 6630
Page 323



66 6635
Page 327



66 6642
Page 325



66 6643
Page 325



66 6650
Page 328



66 6652
Page 329



66 6653
Page 330



66 6655
Page 331



66 6662
Page 332



66 6669
Page 320



66 6674
Page 333



Door Pulls

All details subject to modification

66 6675
Page 334



66 6679
Page 335



66 6681
Page 323



66 6683
Page 336



61 6108
Page 339



61 6112
Page 339



61 6184
Page 340



61 6186
Page 342



61 6187
Page 297



61 6188
Page 297



61 6190
Page 298



61 6191
Page 342



61 6192
Page 299



61 6193
Page 299



61 6254
Page 341



61 6268
Page 341



66 6628
Page 341



66 6629
51 5325
Page 344



Fixed Knobs

23 0802
Page 355



23 0803
Page 355



23 0804
Page 356



23 0828
Page 357



23 0829
Page 357



23 0844
Page 358



23 0873
Page 358



23 0880
Page 359



Materials and Finishes

- Stainless Steel
  - 6204 (630)
  - 6205 (629)
- Bronze
  - 7305 (611)
  - 7615 (615)
  - 7625 (613)
- Aluminum
  - 0105 (628)
  - 0205
  - 0410
  - 0510
  - 0710 (710)
  - 0810 (711)
  - Powder Coated
- Brass
  - 4205 (605)
  - 4305 (606)
  - 4404 (607)

All details subject to modification

Door Pulls – Features
Materials, Fastening Methods, Safety Clearance

FSB has added to its traditional tubular pull handle range with a comprehensive collection of oval and flat designs. All pull handles adapt to a wide variety of fastening methods. The traditional range of push/pull pad handles and profiles with brackets has also been further developed.

Materials

In principle, FSB supplies its entire pull handle range in either aluminum, stainless steel, brass and bronze, with stainless steel being particularly recommended for heavy-duty applications.
Aluminum pulls are available in a variety of anodized finishes.
The durable stainless steel pulls are supplied in a satin or polished finish.
Brass and bronze pulls are offered in a selection of styles when these base materials and finish options are desired.

Fastening Methods

Pulls can be mounted using various methods on a variety of door types and materials.

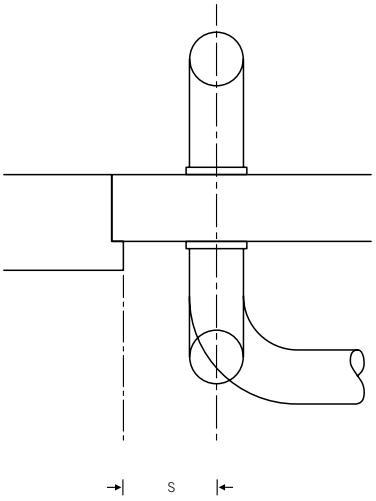
FSB offers the four fastening options below:
· back-to-back fastening **(A)**,
· through-bolted fastening **(B)**,
· concealed fastening with threaded insert (for solid doors) **(C)**,
· concealed fastening with drop clamp (for hollow doors) **(D)**.

This section has the identifying letters that can be found on all relevant product pages. (Examples show fixing for tubular pulls).
Regarding the issue of concealed versus through-bolted fixing, FSB wishes to point out that, based on the compression ring technique deployed by FSB, concealed fixing is both aesthetically pleasing and sufficiently durable as a rule. This needs to be qualified, however, in the case of heavy-duty applications, through-bolt fastening is recommended.

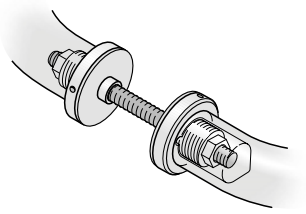
Safety Clearance (S)

When fitting a handle to the closing face of a door, a safety clearance needs to be allowed for between the handle and the edge of the door and the jamb. The assembly scenario is made more readily comprehensible by the following sketch.

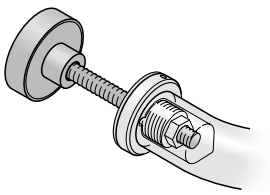
Ideally, safety clearances as recommended by FSB should be adhered to. Nevertheless, conditions at the point of assembly are crucial. It is particularly advisable to make use of offset pulls purpose-designed by FSB for especially narrow stiles, which sets the handle sufficiently far away from the edge.



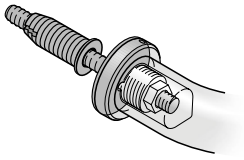
Fastening Methods



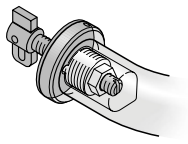
A Back-to-Back Fastening



B Through-Bolted Fastening



C Concealed Fastening with Threaded Insert (for Solid Doors)



D Concealed Fastening with Drop Clamp (for Hollow Doors)

All details subject to modification

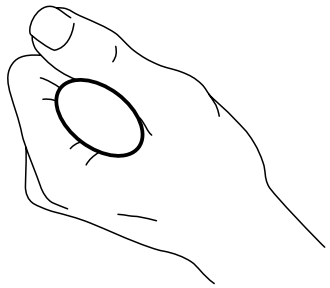
Door Pulls

Oval Series, Round Series, S-Flat Series, Rectangular Series

Oval Series

FSB has developed an alternative to traditional pulls of circular cross-section. Adopting the formula “diagonal + oval = ideal gripping” identified by FSB reduces the amount of effort required to take hold of and operate the handles on entrance doors.

The oval styling offers the market a new gripping quality for eye and hand which FSB has had copyright protected. The experience FSB has amassed now allows it to supply almost all its traditional styles both as circular pulls and as optimized-grip oval variants. A new flattened oval pull series airily and elegantly underpins architectural solutions.

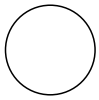


Round Series

The proven FSB range of tubular pulls has profited from the burst of innovation in the sphere of oval designs. New shapes and brackets have been added.

This is particularly true of the lightweight pull series in 20 mm tubular material, for which a new design-conscious bracket fixture has been developed that FSB has likewise had utility and design patented.

Custom lengths can be provided for several of our round and oval pulls. Where it is possible we provide a sheet to be populated with the desired dimensions.



S-Flat Series

The new “S-Flat” push/pull pad handle series designed by the established designer Hartmut Weise. In the best Bauhaus tradition, he opted for a geometrical approach in his concept that sees every angular handle matched by a rounded counterpart. The S-Flat handles are available in various dimensions and open or closed forms.



All details subject to modification

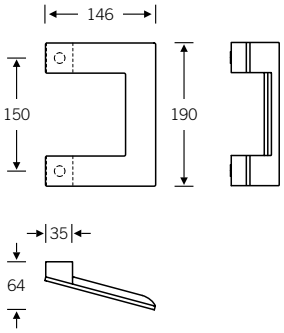
S-Flat Push and Pull Pad Handles
Rectangular

61 6187

Rectangular open
Bracket powder-coated in silver grey

Safety clearance 45 mm
Fastening M8



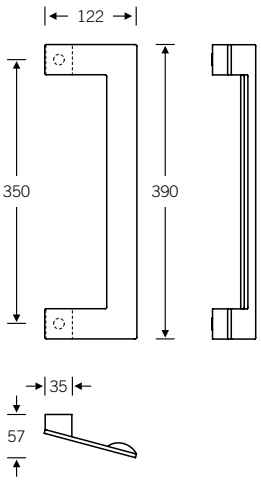


61 6188

Rectangular open
Bracket powder-coated in silver grey

Safety clearance 45 mm
Fastening M8





Design: Hartmut Weise

Fastening Methods (Details on page 353)
A Back-to-Back
B Through-Bolted
C Concealed - Threaded Insert
D Concealed - Drop Clamp

All details subject to modification

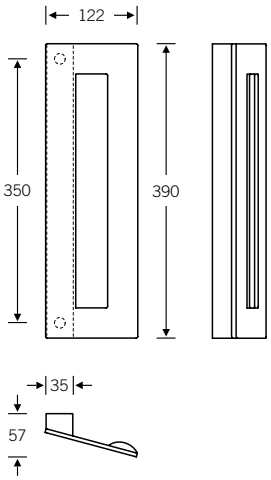
S-Flat Push and Pull Pad Handles
Rectangular

61 6190



Rectangular closed
Bracket powder-coated in silver grey

Safety clearance 45 mm
Fastening M8



Design: Hartmut Weise

Fastening Methods (Details on page 353)
A Back-to-Back
B Through-Bolted
C Concealed - Threaded Insert
D Concealed - Drop Clamp

All details subject to modification

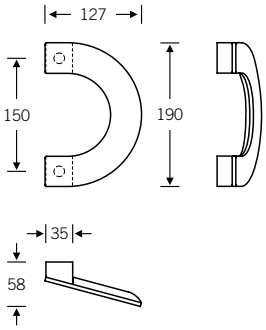
S-Flat Push and Pull Pad Handles
Round

61 6192

Round open
Bracket powder-coated in silver grey

Safety clearance 45 mm
Fastening M8



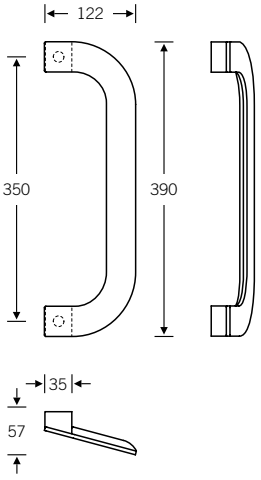


61 6193

Round open
Bracket powder-coated in silver grey

Safety clearance 45 mm
Fastening M8





Design: Hartmut Weise

Fastening Methods (Details on page 353)
A Back-to-Back
B Through-Bolted
C Concealed - Threaded Insert
D Concealed - Drop Clamp

All details subject to modification

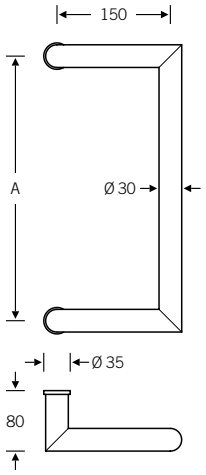
Pull Handles
Round Series

66 6514

Items number	A	Ø
66 6514 038	350	30
66 6514 045	450	30

Safety clearance S = 55 mm
Fastening M8





Fastening Methods (Details on page 349 and 350)
A Back-to-Back
B Through-Bolted
C Concealed - Threaded Insert
D Concealed - Drop Clamp

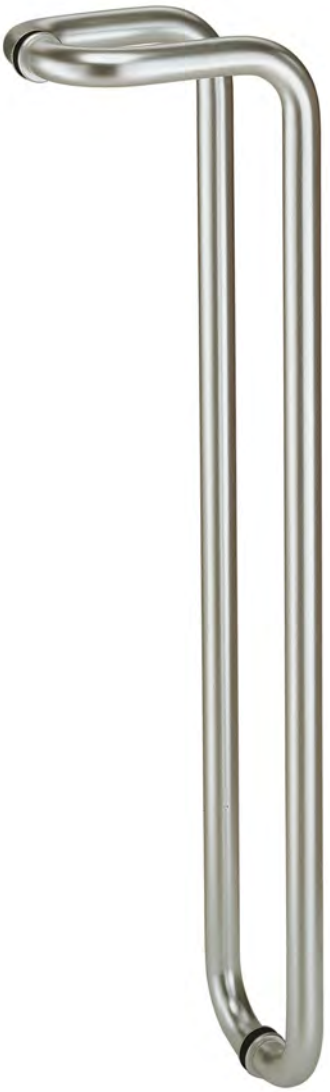
All details subject to modification

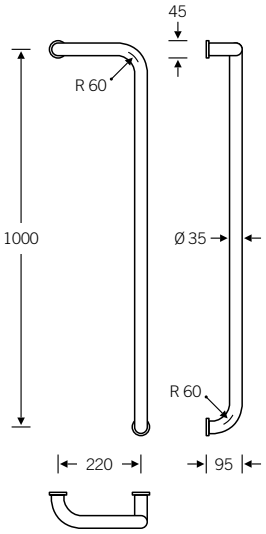
66 6506

66 6506 065 (RH)
66 6506 075 (LH)

Handle cross-section Ø 35 mm
Safety clearance S = 47 mm
Fastening M8

Illustration: right hand, outside view





Fastening Methods (Details on page 349 and 350)
A Back-to-Back
B Through-Bolted
C Concealed - Threaded Insert
D Concealed - Drop Clamp

All details subject to modification

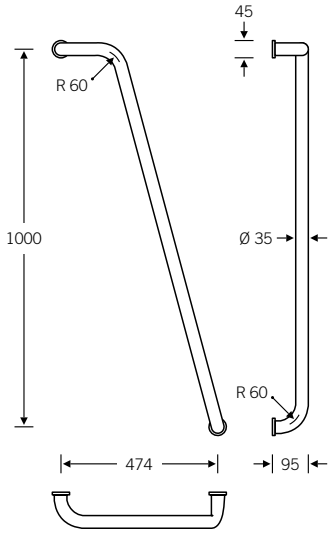
66 6507

66 6507 065 (RH)
66 6507 075 (LH)

Handle cross-section Ø 35 mm
Safety clearance S = 47 mm
Fastening M8

Illustration: right hand, outside view





Fastening Methods (Details on page 349 and 350)
A Back-to-Back
B Through-Bolted
C Concealed - Threaded Insert
D Concealed - Drop Clamp

All details subject to modification

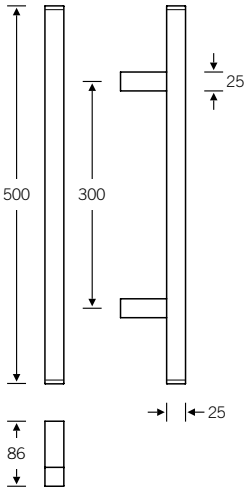
Pull Handles
Square Series

66 6519

Handle cross-section □ 25 × 25 mm
Safety clearance S = 53 mm
Fastening M8

Standard length 500 mm
(also available in special lengths, please see order form page 17)





Fastening Methods (Details on page 353)
A Back-to-Back
B Through-Bolted
C Concealed - Threaded Insert
D Concealed - Drop Clamp

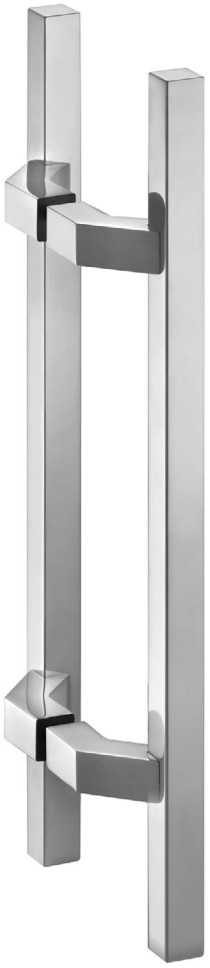
All details subject to modification

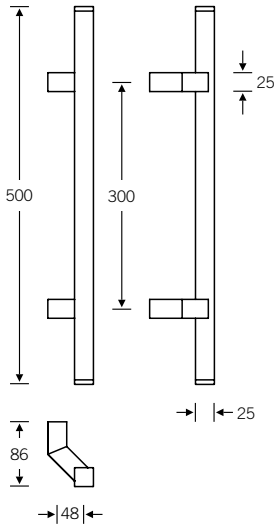
Pull Handles
Square Series

66 6520

Handle cross-section ☐ 25 × 25 mm
Safety clearance S = 46 mm
Fastening M8

Standard length 500 mm
(also available in special lengths, please see order form page 17)





Fastening Methods (Details on page 353)
A Back-to-Back
B Through-Bolted
C Concealed - Threaded Insert
D Concealed - Drop Clamp

All details subject to modification

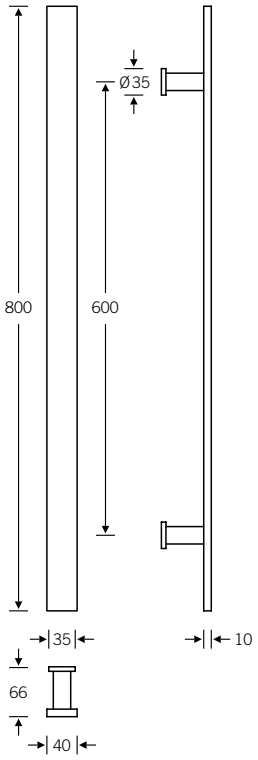
Pull Handles
Straight Series

66 6548

Matches FSB lever handle model 1003.
Handle cross-section 40 × 10 mm

Safety clearance S = 55 mm
Fastening M8

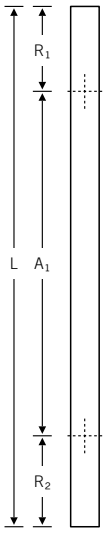


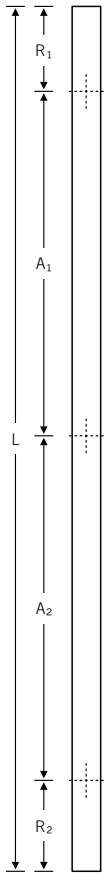


Fastening Methods (Details on page 349 and350)
A Back-to-Back
B Through-Bolted
C Concealed - Threaded Insert
D Concealed - Drop Clamp

All details subject to modification

Order Form
Pull Handles 6519, 6520 and 6548







Please use a copy of this page to order the door handle series 6519, 6520 and 6548 in variable lengths.

Start by using the product numbers to define the desired version.

In the table below, please enter the quantity and overall length. Then add the distance(s) (A) between the support(s) and the end support distance (R).

☐ 66 6519 99 (☐ 25 × 25 mm)



☐ 66 6520 99 (☐ 25 × 25 mm)



To ensure stability, the support distance (A) should not exceed 1200 mm.

☐ 66 6548 99 (40 × 10 mm)



To ensure stability, the support distance (A) should not exceed 600 mm.

Send custom lengths to FSB for pricing

Quantity	Overall length L	Support distance A_1	A_2	A_3	End support distance* R_1	R_2	Fastening type

* min. 30 mm, max. 350 mm for 6519, 6520
* min. 30 mm, max. 250 mm for 6548

All details subject to modification

66 6526



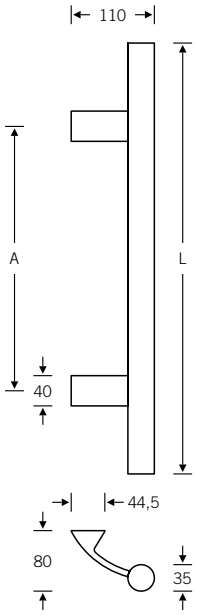
FSB has supplemented its proven and long-successful in-line pull series in aluminum and stainless steel with a particularly safe-to-grip design featuring heavily offset fastening points on which the ends of brackets are incorporated into the pull section. The in-line pull sections are supplied with a diameter of 35 mm in either aluminum or stainless steel. The brackets are made of aluminum and anodized in the metal's natural color.

The standard version has an A dimension of 350 mm and a length of 570 mm. Other center-to-center dimensions and lengths are available.

Maximum length for dark anodized aluminum finishes is 1000 mm.

Fastening M8

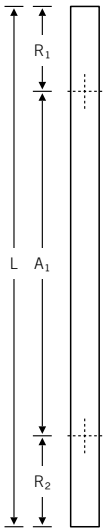
Item Number	A	L	Ø
66 6526 3594	350	570	35
66 6526 4594	450	670	35

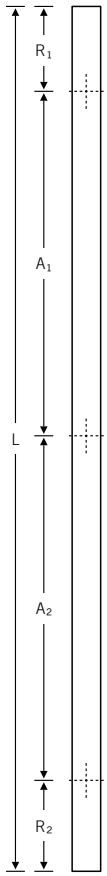


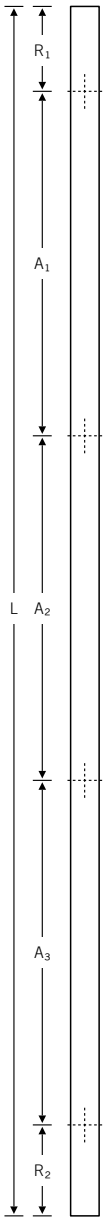
Fastening Methods (Details on page 353)
A Back-to-Back
B Through-Bolted
C Concealed - Threaded Insert
D Concealed - Drop Clamp

All details subject to modification

Order Form
Pull Handle 6526







Please use a copy of this page to order the door handle series 6526 in variable lengths.

In the table below, please enter the quantity and overall length. Then add the distance(s) (A) between the support(s) and the end support distance (R).

☐ 66 6526 99 (Ø 35 mm)



To ensure stability, the support distance (A) should not exceed 1200 mm.

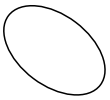
Send custom lengths to FSB for pricing

Quantity	Overall length L	Support distance A_1	A_2	A_3	End support distance* R_1	R_2	Fastening type

* min. 40 mm, max. 350 mm

All details subject to modification

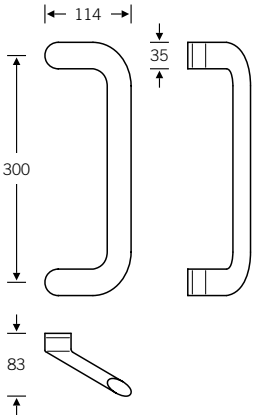
Pull Handles
Oval Series



66 6533

Handle cross-section Ø 35 × 17.5 mm
Fastening M8

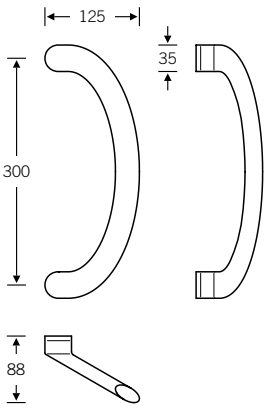




66 6534

Handle cross-section Ø 35 × 17.5 mm
Fastening M8



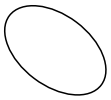


The flattened oval pull handle series 6533, 6534, 6535 and 6536 see FSB's philosophy of the ovally gripping hand and the diagonal moving arm put to effect in telling manner. The circular fastening section has been shortened and the grip tilted towards the user by dint of a flattened oval cross-section. The hand therefore enjoys optimum clearance while, stylistically, these airy, elegant handles display a decidedly architectural dimension.

Guaranteeing FSB's usual production excellence is an innovative internal high-pressure metal forming process for the stainless steel variant.

All details subject to modification

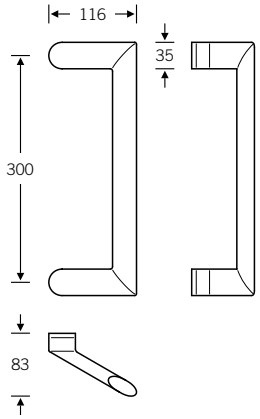
Pull Handles
Oval Series



66 6535

Handle cross-section Ø 35 × 17.5 mm
Fastening M8

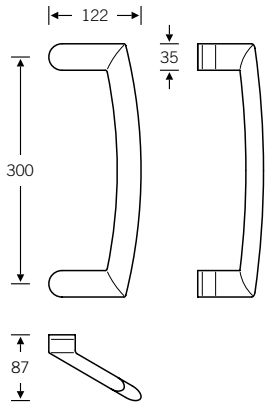




66 6536

Handle cross-section Ø 35 × 17.5 mm
Fastening M8



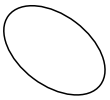


Design: Hartmut Weise

Fastening Methods (Details on page 349 and 350)
A Back-to-Back
B Through-Bolted
C Concealed - Threaded Insert
D Concealed - Drop Clamp

All details subject to modification

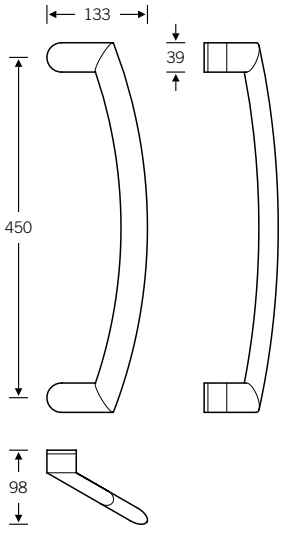
Pull Handles
Oval Series



66 6537

Handle cross-section Ø 39 × 20 mm
Fastening M8



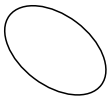


Design: Hartmut Weise

Fastening Methods (Details on page 349 and 350)
A Back-to-Back
B Through-Bolted
C Concealed - Threaded Insert
D Concealed - Drop Clamp

All details subject to modification

Pull Handles
Oval Series

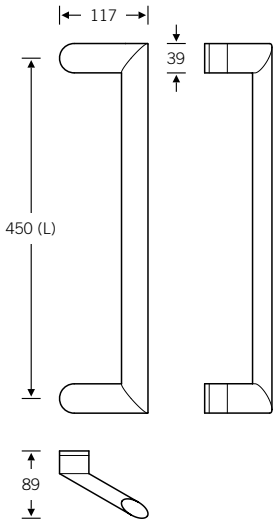


66 6538

Handle cross-section Ø 39 × 20 mm
Fastening M8

Special lengths up to 1200 mm are available in stainless steel.
Order 6538 099 and the length (L) in parenthesis.





Design: Hartmut Weise

Fastening Methods (Details on page 349 and 350)
A Back-to-Back
B Through-Bolted
C Concealed - Threaded Insert
D Concealed - Drop Clamp

All details subject to modification

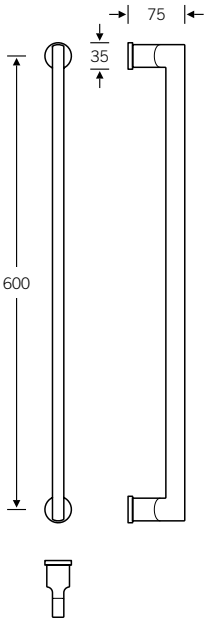
Pull Handles
Round Series

66 6540

Matches FSB lever handle model 1035.

Safety clearance S = 45 mm





Fastening Methods (Details on page 349 and 350)
A Back-to-Back
B Through-Bolted
C Concealed - Threaded Insert
D Concealed - Drop Clamp

All details subject to modification

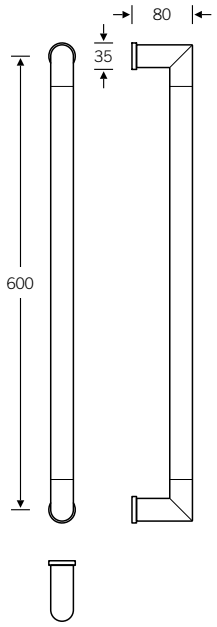
Pull Handles
Round Series

66 6541

Matches FSB lever handle model 1077.
Grip Stainless Steel, Corners Aluminum

Safety clearance S = 51 mm

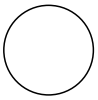




Fastening Methods (Details on page 349 and 350)
A Back-to-Back
B Through-Bolted
C Concealed - Threaded Insert
D Concealed - Drop Clamp

All details subject to modification

Pull Handles
Round Series



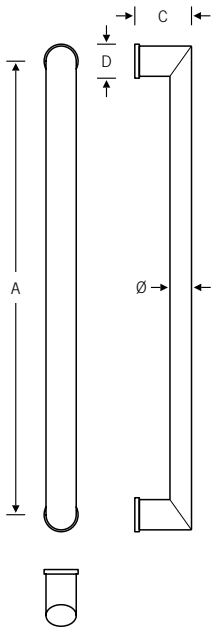
66 6542

Item number	A	Ø	C	D	S
66 6542 030	300	30 × 15	60	35	48
66 6542 060	600	40 × 28	75	45	55

Matches FSB lever handle models 1107/1108.

Safety clearance S = 51 mm





Fastening Methods (Details on page 349 and 350)
A Back-to-Back
B Through-Bolted
C Concealed - Threaded Insert
D Concealed - Drop Clamp

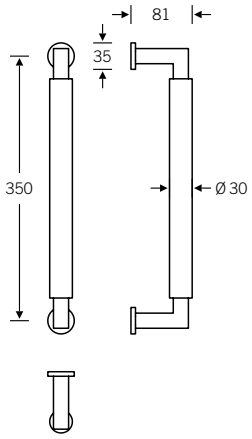
All details subject to modification

66 6546



Matches FSB lever handle model 1102.
Available length up to 1200 mm.

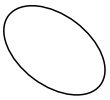
Safety clearance S = 51 mm
Fastening M8



Fastening Methods (Details on page 349 and 350)
A Back-to-Back
B Through-Bolted
C Concealed - Threaded Insert
D Concealed - Drop Clamp

All details subject to modification

Pull Handles
Oval Series

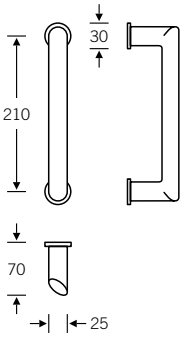


66 6610

Matches FSB lever handle model 1025.

Safety clearance S = 45 mm
Fastening M6





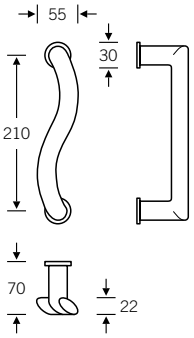
66 6611

Matches FSB lever handle model 1028.

Safety clearance S = 60 mm
Fastening M6

Illustration: right hand, outside view



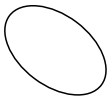


Design: Hartmut Weise

Fastening Methods (Details on page 351)
A Back-to-Back
B Through-Bolted
C Concealed - Threaded Insert

All details subject to modification

Pull Handles
Oval Series

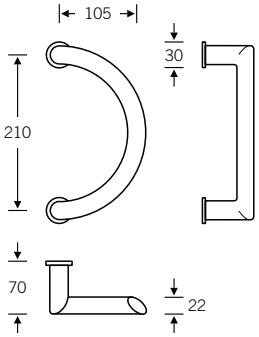


66 6612

Matches FSB lever handle model 1026.

Safety clearance S = 48 mm
Fastening M6

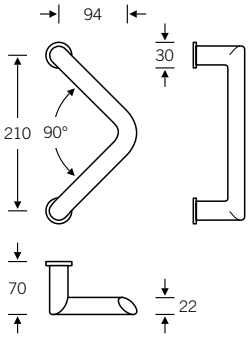




66 6613

Safety clearance S = 48 mm
Fastening M6





Design: Hartmut Weise

Fastening Methods (Details on page 351)
A Back-to-Back
B Through-Bolted
C Concealed - Threaded Insert

All details subject to modification

Pull Handles
Round Series

66 6602



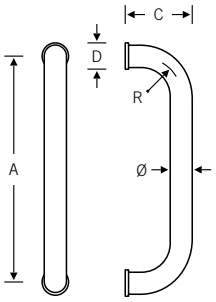
Item number	A	Ø	R	C	D	S
66 6670 034	200	25	40	80	35	48
66 6670 037	300	25	40	80	35	48
66 6670 038	350	25	40	80	35	48
66 6602 038	350	30	55	90	35	51
66 6603 038	350	35	60	95	45	56
66 6604 038	350	40	60	105	45	65
66 6670 099	200–1200	25	40	80	35	48
66 6602 099	300–1200	30	55	90	35	51
66 6603 099	300–1200	35	60	95	45	56
66 6604 099	350–1200	40	60	105	45	65

Matches FSB lever handle model 1075.

Bronze available only in Ø 30 mm (66 6602 038)

Maximum length for dark anodized aluminum finishes is 1000 mm.

Fastening: Ø = 20 mm M6
Ø ≥ 25 mm M8



Fastening Methods (Details on page 349 and350)
A Back-to-Back
B Through-Bolted
C Concealed - Threaded Insert
D Concealed - Drop Clamp

All details subject to modification

Pull Handles
Round Series

66 6669



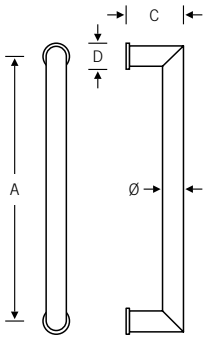
Item number	A	Ø	C	D	S
66 6606 038	350	25	75	35	50
66 6669 038	350	30	80	35	55
66 6607 038	350	35	85	45	57
66 6609 038	350	40	90	45	60
66 6669 099	Special length	30			
66 6609 099	Special length	40			

Matches FSB lever handle model 1076.

Bronze available only in Ø 30 mm (66 6669 038)

Special lengths with dimension A to 1200 mm
in Ø 30, 35 and 40 mm

Fastening M8



Fastening Methods (Details on page 349 and 350)
A Back-to-Back
B Through-Bolted
C Concealed - Threaded Insert
D Concealed - Drop Clamp

All details subject to modification

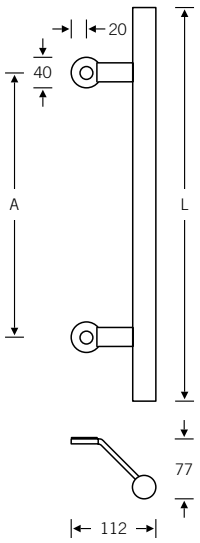
66 6615

Item number	A	Ø	L
66 6615 035	350	30	550
66 6615 045	450	30	650
66 6615 099	451–2100	30	650



In door pull series FSB 6615 (Ø 30 mm), fixing is by means of laterally offset strap-type brackets. The fastening and gripping sides are separated from one another and hence protect hands. The innovative combination of fastening strap and pull lends the design an airy, vivacious appearance.

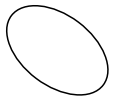
Special lengths are available per the chart above. Order 6615 099 and add distance (A) in parenthesis. FSB recommends a support distance (A) of max. 1200 mm.



Fastening Methods (Details on page 352)
A Back-to-Back
B Through-Bolted
C Concealed - Threaded Insert

All details subject to modification

Pull Handles
Oval Series



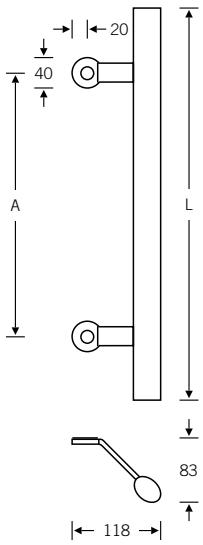
66 6616

Item number	A	Ø	L
66 6616 035	350	40 × 28	550
66 6616 045	450	40 × 28	650
66 6616 099	451–2100	40 × 28	650

In door pull series FSB 6616 (Ø 40 × 28 mm), fastening is by means of laterally offset strap-type brackets. The fastening and gripping sides are separated from one another and hence protect hands. The innovative combination of fastening strap and pull lends the design an airy, vivacious appearance.

Special lengths are available per the chart above. Order 6616 099 and add distance (A) in parenthesis. FSB recommends a support distance (A) of max. 1200 mm.





Fastening Methods (Details on page 352)
A Back-to-Back
B Through-Bolted
C Concealed - Threaded Insert

All details subject to modification

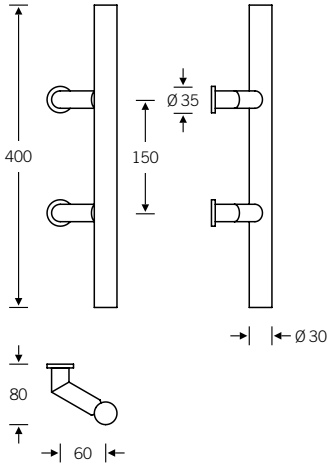
Pull Handles
Round Series

66 6630

Handle cross-section Ø 30 mm
Fastening M8

Standard length 400 mm





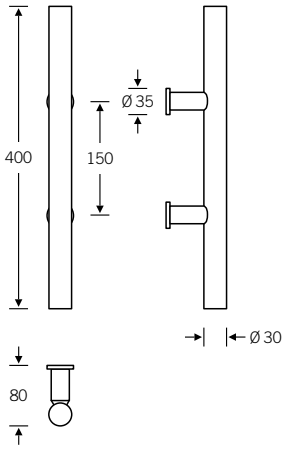
66 6681

Handle cross-section Ø 30 mm
Safety clearance S = 38 mm
Fastening M8

Standard length 400 mm

Bronze available only in Ø 30 mm

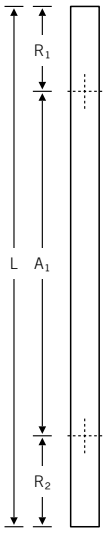


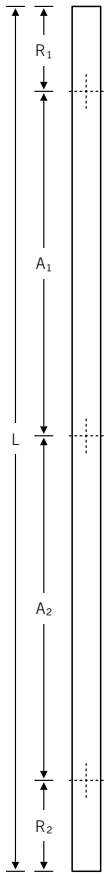


Fastening Methods (Details on page 349 and 350)
A Back-to-Back
B Through-Bolted
C Concealed - Threaded Insert
D Concealed - Drop Clamp

All details subject to modification

Order Form
Pull Handles 6630 and 6681







To order custom designs in the pull handle series 6630 or 6681, please use a copy of this page:

First specify the model desired citing the applicable order code above. Then enter the quantity required and overall length in the table below.

Then enter details of the distances between supports and, where applicable, their distance from the end of the handle in mm. To ensure stability, the distance between supports should not exceed 1200 mm.

- ☐ 66 6529 99 (Ø 25 mm)
- ☐ 66 6630 99 (Ø 30 mm)
- ☐ 66 6531 99 (Ø 35 mm)
- ☐ 66 6532 99 (Ø 40 mm)



- ☐ 66 6580 99 (Ø 25 mm)
- ☐ 66 6681 99 (Ø 30 mm)
- ☐ 66 6582 99 (Ø 35 mm)
- ☐ 66 6583 99 (Ø 40 mm)



Send custom lengths to FSB for pricing

Quantity	Overall length L	Support distance A_1	A_2	A_3	End support distance* R_1	R_2	Fastening type

* min. 30 mm, max. 350 mm

All details subject to modification

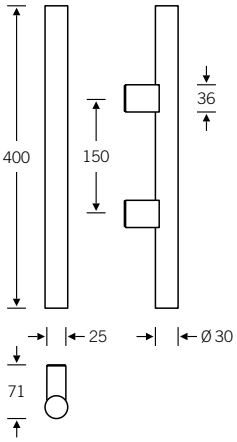
Pull Handles
Round Series

66 6642



Handle cross-section Ø 30 mm
Safety clearance S = 38 mm
Fastening M6

Standard length 400 mm.
Maximum length for dark anodized aluminum finishes is 1000 mm.

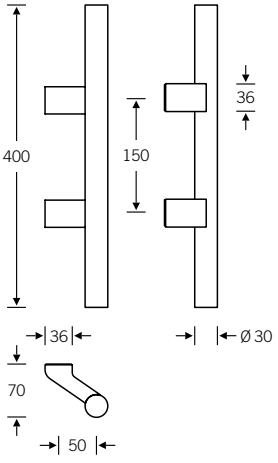


66 6643



Handle cross-section Ø 30 mm
Fastening M6

Standard length 400 mm.
Maximum length for dark anodized aluminum finishes is 1000 mm.

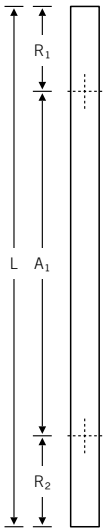


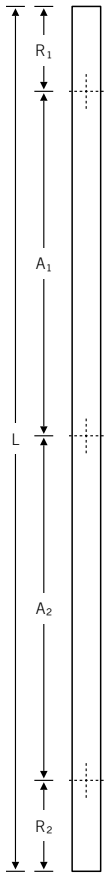
Brackets: Aluminum Natural Color Anodized
Grip: Aluminum or Stainless Steel

Fastening Methods (Details on page 354)
A Back-to-Back
B Through-Bolted
C Concealed - Threaded Insert
D Concealed - Drop Clamp

All details subject to modification

Order Form
Pull Handles 6642 and 6643







To order custom designs in the pull handle series 6642 or 6643, please use a copy of this page:

First specify the model desired citing the applicable order code above. Then enter the quantity required and overall length in the table below.

Then enter details of the distances between supports and, where applicable, their distance from the end of the handle in mm. To ensure stability, the distance between supports should not exceed 1200 mm.

☐ 66 6642 99 (Ø 30 mm)



☐ 66 6643 99 (Ø 30 mm)

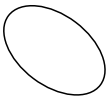


Send custom lengths to FSB for pricing

Quantity	Overall length L	Support distance A_1	A_2	A_3	End support distance* R_1	R_2	Fastening type

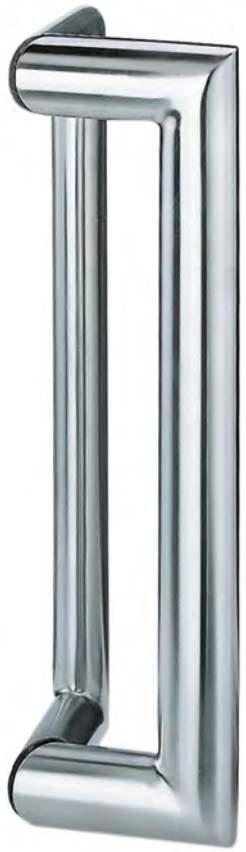
* min. 40 mm, max. 350 mm

All details subject to modification



66 6635

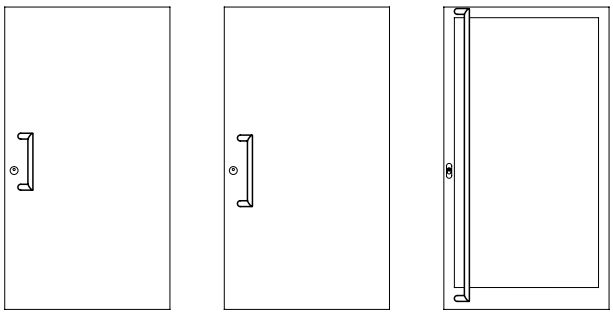
Item number	A	Ø
66 6635 038	350	40 × 28
66 6635 045	450	40 × 28
66 6635 099	451–2100	40 × 28

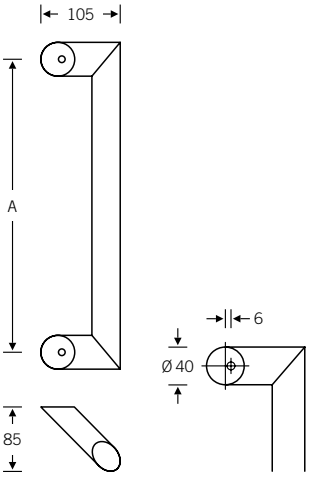


The door handle design FSB 66 6635 was the first product in FSB's oval series. A comfortable oval tube (Ø 40 × 28 mm) is to be aligned ergonomically so that the hand can grip safely and efficiently. This aim was achieved by mitre welding the handle and support at a 90° angle. This provided a counterpoint to the soft bends of the handle design in round tubes.

Special lengths are available per the chart above. Order 6635 099 and add distance (A) in parenthesis.

Fastening M8

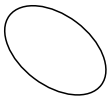




Fastening Methods (Details on page 348)
A Back-to-Back
B Through-Bolted
C Concealed - Threaded Insert

All details subject to modification

Pull Handles
Oval Series



66 6650

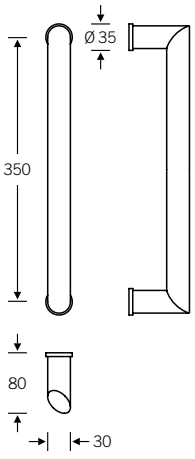
Item number	A	Ø
66 6650 038	350	36 × 22
66 6650 099	351–1500	36 × 22



FSB could not resist squeezing all the experience gained in fashioning the 40 × 28 mm oval tube into a smaller diameter. And thus it was that the standard in-line pull FSB 6650 came into being .It features a skewed oval grip 36 by 22 mm in diameter affixed to circular supports.

Special lengths are available per the chart above. Order 6650 099 and add distance (A) in parenthesis.

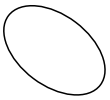
Safety clearance S = 49 mm
Fastening M8



Fastening Methods (Details on page 349 and 350)
A Back-to-Back
B Through-Bolted
C Concealed - Threaded Insert
D Concealed - Drop Clamp

All details subject to modification

Pull Handles
Oval Series

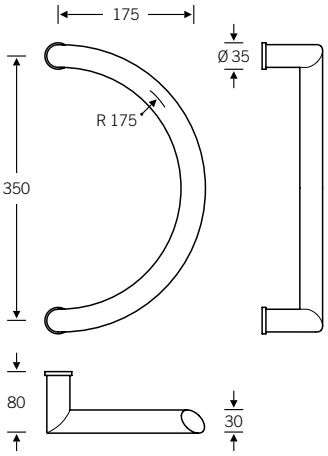


66 6652

Handle models FSB 6650 (inline), FSB 6682 (U-shape), FSB 6652 (semicircular) and FSB 6685 (triangular) are living proof that tested designs featuring new oval cross-sections have the edge over their round counterparts both optically and in terms of gripping ergonomics. The hand glides effortlessly around them.

Handle cross-section Ø 36 × 22 mm
Safety clearance S = 53 mm
Fastening M8





Fastening Methods (Details on page 349 and 350)
A Back-to-Back
B Through-Bolted
C Concealed - Threaded Insert
D Concealed - Drop Clamp

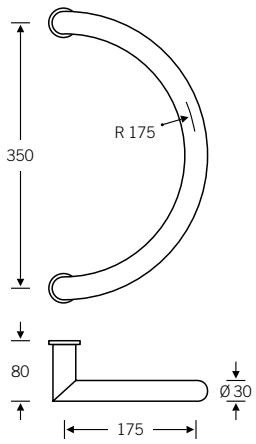
All details subject to modification

Pull Handles
Round Series

66 6653

Handle cross-section Ø 30 mm
Safety clearance S = 55 mm
Fastening M8





Fastening Methods (Details on page 349 and 350)
A Back-to-Back
B Through-Bolted
C Concealed - Threaded Insert
D Concealed - Drop Clamp

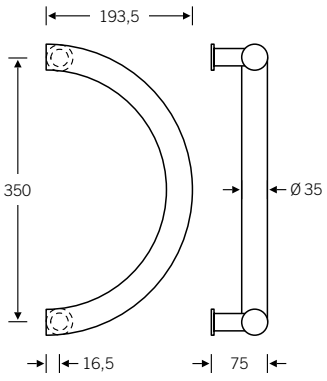
All details subject to modification

Pull Handles
Round Series

66 6655

Handle cross-section Ø 35 mm
Safety clearance S = 55 mm
Fastening M8





Fastening Methods (Details on page 349 and 350)
A Back-to-Back
B Through-Bolted
C Concealed - Threaded Insert
D Concealed - Drop Clamp

All details subject to modification

66 6662



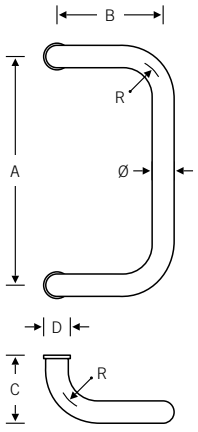
Item number	A	Ø	R	B	C	D	S
66 6661 034	200	25	40	100	80	35	42
66 6661 037	300	25	40	100	80	35	42
66 6661 038	350	25	40	100	80	35	42
66 6662 038	350	30	55	140	90	35	43
66 6663 038	350	35	60	140	95	45	45
66 6664 038	350	40	60	150	120	45	52
66 6661 099	200–1200	25	40	100	80	35	42
66 6662 099	300–1200	30	55	140	90	35	43
66 6663 099	300–1200	35	60	140	95	45	45
66 6664 099	350–1200	40	60	150	120	45	52

Bronze available only in Ø 30 mm (66 6662 038)

Fastening: Ø = 20 mm M6
Ø ≥ 25 mm M8

Special lengths are available per the chart above. Order 6661, 6662, 6663, 6664 099 and add length (A) in parenthesis.

Maximum length for dark anodized aluminum finishes is 1000 mm.



Fastening Methods (Details on page 349 and 350)
A Back-to-Back
B Through-Bolted
C Concealed - Threaded Insert
D Concealed - Drop Clamp

All details subject to modification

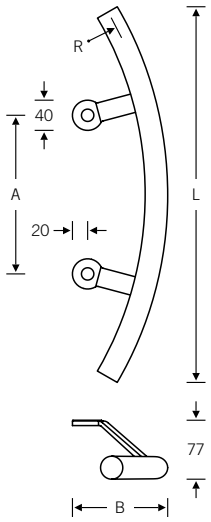
66 6674

Item number	A	Ø	R	B	L
66 6674 021	210	30	485	126	497
66 6674 035	350	30	1420	123	742



Door pull FSB 6674 takes the offset strap-type brackets from the FSB 6615 series and fuses these with the sweep of the crescent-shaped round pull (Ø 30 mm).

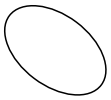
This pull series is only supplied with A dimensions of 210 mm and 350 mm.



Fastening Methods (Details on page 352)
A Back-to-Back
B Through-Bolted
C Concealed - Threaded Insert

All details subject to modification

Pull Handles
Oval Series



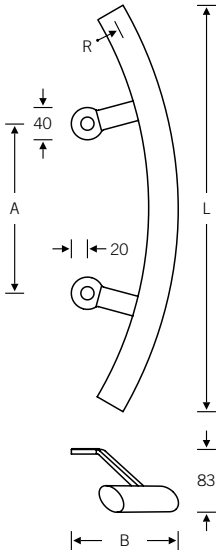
66 6675

Item number	A	Ø	R	B	L
66 6675 021	210	40 × 28	485	132	504
66 6675 035	350	40 × 28	1420	129	745

Door pull FSB 6675 takes the offset strap-type brackets from the FSB 6616 series and fuses these with the sweep of the crescent-shaped oval pull (Ø 40 × 28 mm).

This pull series is only supplied with A Dimensions of 210 mm and 350 mm.





Fastening Methods (Details on page 352)
A Back-to-Back
B Through-Bolted
C Concealed - Threaded Insert

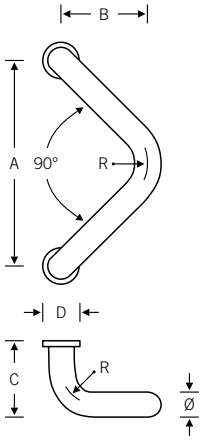
All details subject to modification

66 6679

Item number	A	Ø	R	B	C	D	S
66 6679 034	200	25	40	83	80	35	42
66 6679 037	300	25	40	133	80	35	42
66 6679 038	350	25	40	158	80	35	42
66 6623 038	350	30	55	152	90	35	43
66 6624 038	350	35	60	150	95	45	45
66 6625 038	350	40	60	150	105	45	49

Fastening: Ø = 20 mm M6
Ø ≥ 25 mm M8





Fastening Methods (Details on page 349 and 350)
A Back-to-Back
B Through-Bolted
C Concealed - Threaded Insert
D Concealed - Drop Clamp

All details subject to modification

Pull Handles
Round Series

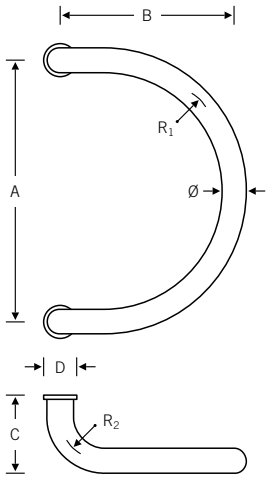
66 6683



Item number	A	Ø	R1	R2	B	C	D	S
66 6673 034	200	25	100	40	140	80	35	42
66 6673 037	300	25	150	40	190	80	35	42
66 6673 038	350	25	175	40	215	80	35	42
66 6683 038	350	30	175	55	230	90	35	43
66 6659 038	350	35	175	60	235	95	45	45
66 6678 038	350	40	175	60	235	120	45	52

Bronze only in Ø 30 mm (66 6683 038)

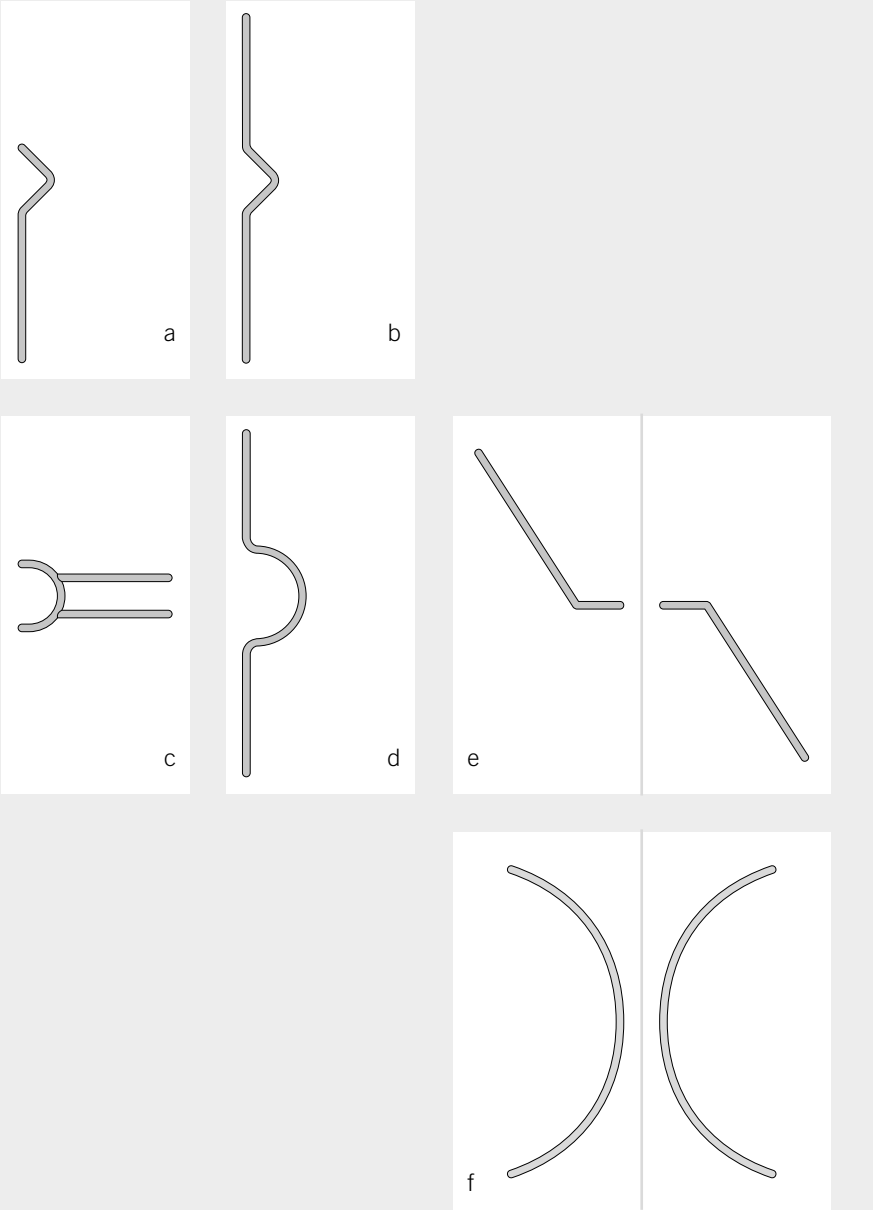
Fastening: Ø = 20 mm M6
Ø ≥ 25 mm M8



Fastening Methods (Details on page 349 and 350)
A Back-to-Back
B Through-Bolted
C Concealed - Threaded Insert
D Concealed - Drop Clamp

All details subject to modification

Design Suggestions
Pull Handles Round Series



The sketched handle constructions in the material stainless steel are intended as an inspiration to planners, designers, retailers and builders.

When sending an inquiry, please state the door type, material and weight. Accurate drawings are essential for FSB to prepare quotations.

All details subject to modification



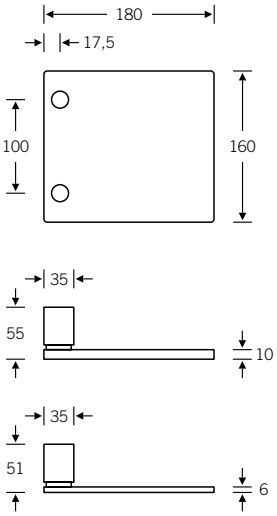
Push and Pull
Pad Handles

61 6108

Available in:
Bracket: Aluminum | Pad: Aluminum
Bracket: Aluminum | Pad: Stainless Steel

Safety clearance 45 mm
Fastening M8

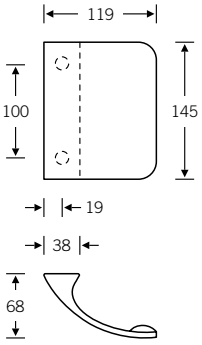




61 6112

Fastening M6





For detailed information on fastening, please turn to page 353 and 354.

All details subject to modification

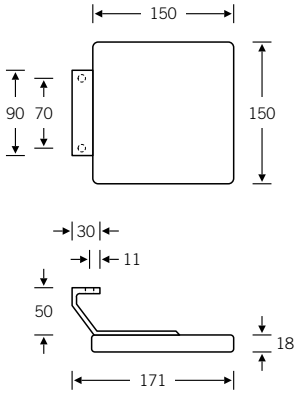
Push and Pull
Pad Handles

61 6184

Plastic-pad, black

Safety clearance 45 mm





Screw hole Ø 8.5 mm
Fastening M8

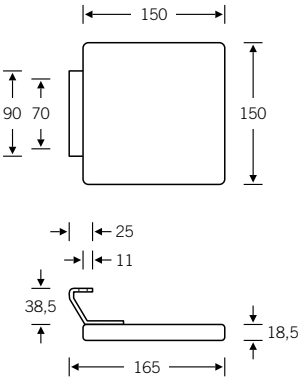
All details subject to modification

61 6254

61 6254 00062

Safety clearance 45 mm



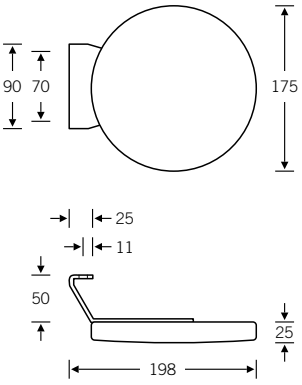


61 6268

61 6268 00000

Safety clearance 40 mm





Screw hole Ø 8.5 mm
Fastening M8

All details subject to modification

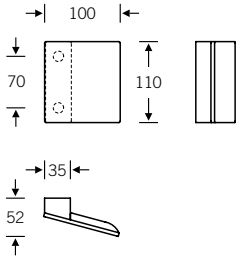
S-Flat Push and Pull Pad Handles
Square + Circle

61 6186

Bracket powder-coated in silver grey

Safety clearance 45 mm
Fastening M8



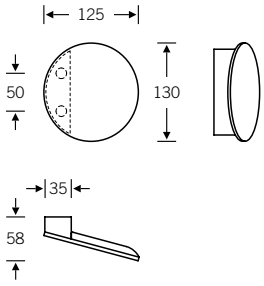


61 6191

Bracket powder-coated in silver grey

Safety clearance 45 mm
Fastening M8





Design: Hartmut Weise

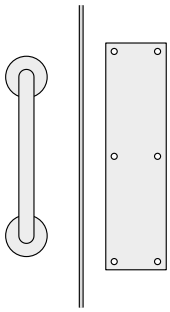
For detailed information on fastening, please turn to page 353.

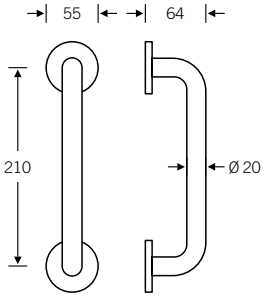
All details subject to modification

66 6628

Fittings feature two fixing points concealed by a clip-on cover







Double-action swing doors in restaurants, canteens, hospitals and so forth are generally fitted with both push and pull plates for added protection. An alternative arrangement is conceivable in the gripping area, however. Furnishing the two faces of the door with the combination shown above allows the desired direction of swing to be implied.

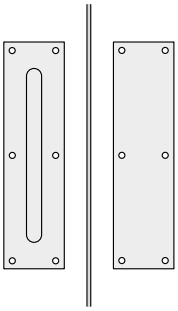
All details subject to modification

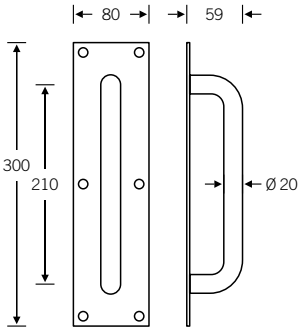
66 6629 | 51 5325

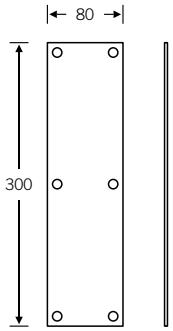
5325 counterplate to 6629











Double-action swing doors in restaurants, canteens, hospitals and so forth are generally fitted with both push and pull plates for added protection. An alternative arrangement is conceivable in the gripping area, however. Furnishing the two faces of the door with the combination shown above allows the desired direction of swing to be implied.

Boreholes for 4.0 mm countersunk screws

All details subject to modification

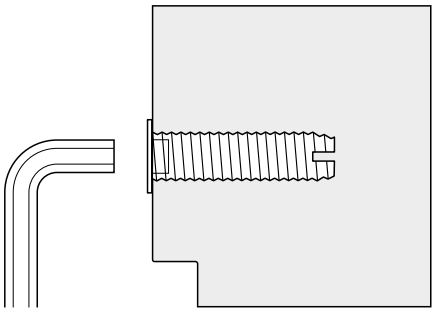
FSB's Threaded Insert Fastening Method



FSB's threaded insert method is a practically-minded and, at the same time, enhanced means of fixing concealed pulls to solid doors, and in the process allowing distension forces to be absorbed far more effectively by the door stile.

A single type of threaded insert, 34 mm (1 15⁄32") long is used which requires a minimum door thickness of 40 mm (1 9⁄16").

The self-tapping thread creates an excellent bond with comparatively little play between door stile and threaded insert, thus ensuring an even and effective frictional connection – assuming the accurate drilling of 12.5 mm (½") diameter borehole has been made.

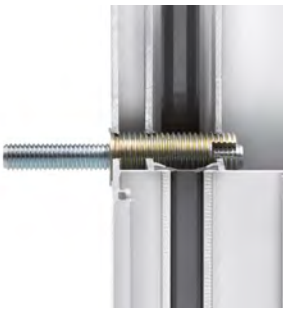


Step One

Whether a manual or a power drill is used, threaded inserts require holes 12.5 mm in diameter to be drilled.

Step Two

Then the threaded insert is screwed in using a size 8 Allen key until the washer at the end of the threaded insert lies flush against the stile. FSB recommends an Allen key with handle, as this is the best way of guaranteeing the requisite force is exerted.

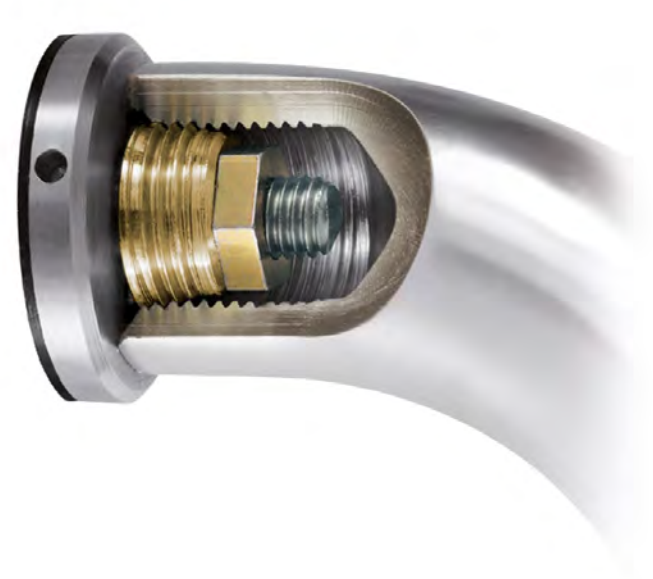


Step Three

The "mounting post" is screwed into the threaded insert. The handle is then placed on the projecting "mounting post".

All details subject to modification

FSB Clamping Rose Fastening

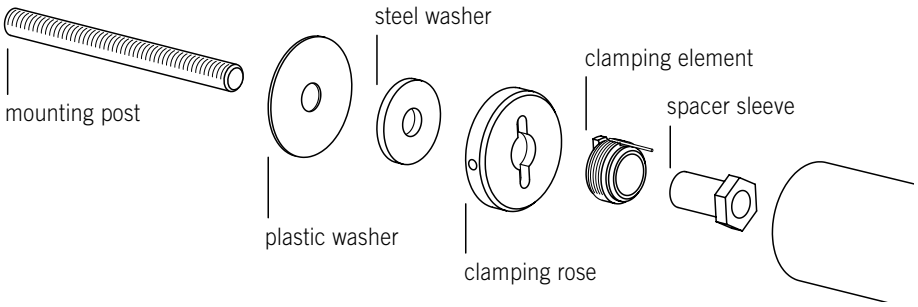


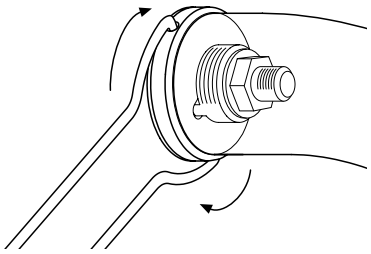
The FSB clamping rose fastening is a method of assembling door-pulls whereby the pull is tightened fast against the surface of the door. Visible fastening screws are done away with.

All door pulls with round necks are supplied as female parts with an internal left-handed thread 18 × 1.5 mm (23⁄32 × 1⁄16") (M8 fastening) or 14 × 1.5 mm (9⁄16 × 1⁄16") (M6 fastening).

A clamping rose fastening comprises a plastic washer, a steel washer, a clamping element (with “lock-tight”), a rotating rose and a spacer sleeve that are securely held in place by a plastic clip and pre-attached to the end of the handle.

The FSB clamping rose fastening allows all FSB door pulls with round necks to be screwed tight against the surface of the door by means of an easy-to-operate clamping rose. Radial play allowed for by FSB ensures the necessary tolerances during fitting. Assembly is as follows:





Step One

First install the “mounting post”. How this is done depends on which fastening method you are using (back-to-back fastening, through-bolted fastening or concealed fastening).

Step Two

Then detach the clamping elements from the end of the pull by turning them counterclockwise. Remove the plastic clip and slip the plastic washer, the steel washer, the clamping rose and the clamping element over the mounting post in that order. Using the spacer sleeve, screw the elements together, ensuring that the clamping rose and clamping element remain free to rotate.

Step Three

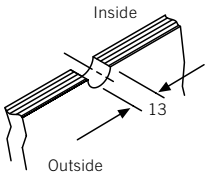
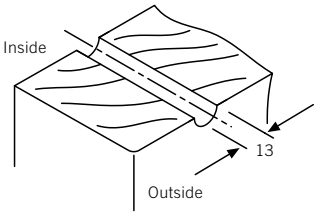
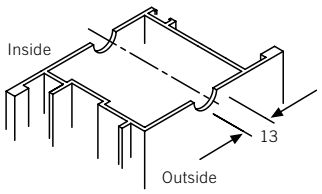
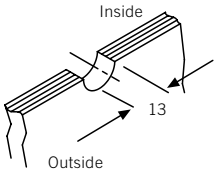
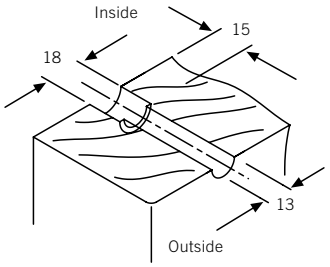
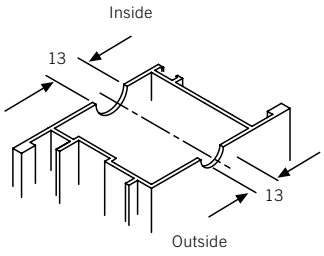
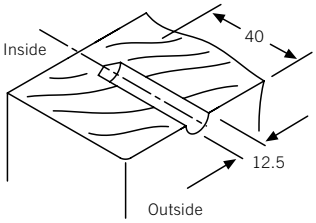
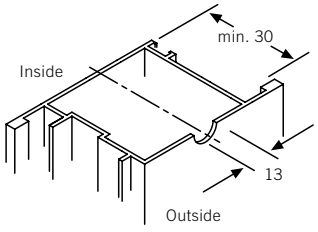
Place the handle on the fastening points and tighten against the door by alternately turning the clamping roses in a clockwise direction.

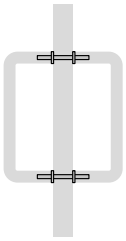
A turning device for the FSB clamping rose is supplied with the product.

All details subject to modification

Borehole Dimensions
Door Pulls

The illustrations below provide the bore hole dimensions for all FSB door pulls based on type of door and fastening method.

Fastening Method	Glass Door	Wood Door	Metal Door
A Back-to-Back Fastening			
B Through-Bolted Fastening			
C Concealed Fastening with Threaded Insert			
D Concealed Fastening with Drop Clamp			









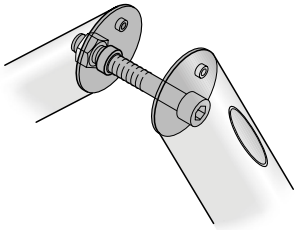
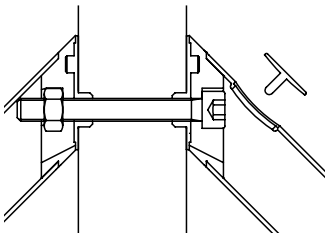
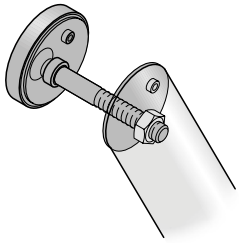
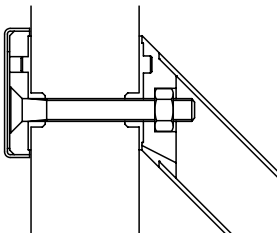
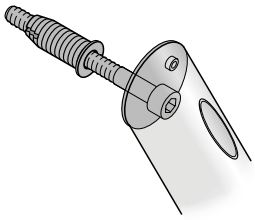
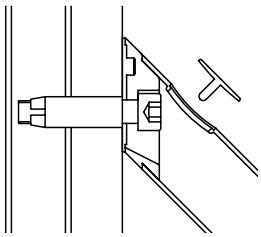
All details subject to modification

Fastening Methods
Door Pulls

Door Pull Series

66 6635

When selecting and ordering pull handles, please note that the pulls in this series are produced as threaded-part and through-bolted fastening sections.

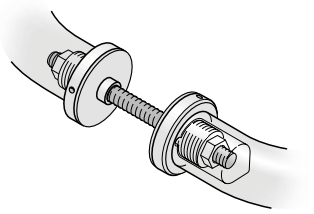
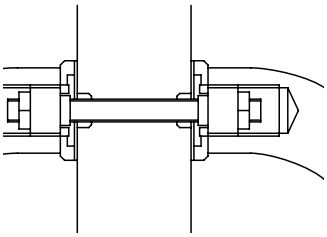
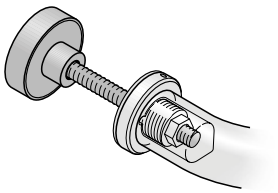
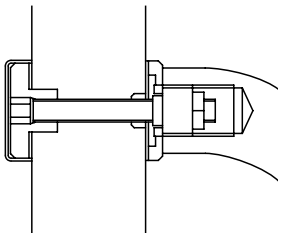
	Fastening Method	Fastening Accessories	Item Number	
	**A** Back-to-Back Fastening 	2 each socket head cup screws M8 4 each plastic washers 2 each lids stainless steel Borehole Ø 13 mm	05 0582 01008 glass door 05 0582 03038 05 0582 03045 05 0582 03050 05 0582 03055 05 0582 03060 05 0582 03065 05 0582 03070 05 0582 03075 05 0582 03080	 8 – 19 mm 38 – 44 mm 45 – 49 mm 50 – 54 mm 55 – 59 mm 60 – 64 mm 65 – 69 mm 70 – 74 mm 75 – 79 mm 80 – 84 mm
	**B** Through-Bolted Fastening 	2 each countersunk screw M8 4 each plastic washers 2 each fastening washers with caps stainless steel Borehole Ø 13 mm	05 0582 02008 glass door 05 0582 04038 05 0582 04045 05 0582 04050 05 0582 04055 05 0582 04060 05 0582 04065 05 0582 04070 05 0582 04075 05 0582 04080	 8 – 19 mm 38 – 44 mm 45 – 49 mm 50 – 54 mm 55 – 59 mm 60 – 64 mm 65 – 69 mm 70 – 74 mm 75 – 79 mm 80 – 84 mm
	**C** Concealed Fastening with Threaded Insert 	2 each socket head cup screws M8 2 each plastic washers 2 each expansion plugs brass dull nickel finish 2 each lids stainless steel Borehole Ø 12.5 mm (wood doors)	05 0582 00335 length of dowel	 34 mm

All details subject to modification

Fastening Methods
Door Pulls

Pull Handle Series Round M8

66 6506, 66 6507, 66 6514, 66 6533, 66 6534, 66 6535, 66 6536, 66 6537, 66 6538, 66 6540, 66 6541, 66 6542, 66 6546, 66 6548, 66 6602, 66 6603, 66 6604, 66 6606, 66 6607, 66 6609, 66 6623, 66 6624, 66 6625, 66 6630, 66 6650, 66 6652, 66 6653, 66 6655, 66 6662, 66 6669, 66 6679, 66 6681, 66 6683

	Fastening Method	Fastening Accessories	Item Number
	**A** Back-to-Back Fastening 	2 each set screws M8 Borehole Ø 13 mm	05 0580 01008 Glass door 8 – 19 mm 05 0580 03035 35 – 54 mm 05 0580 03055 55 – 74 mm 05 0580 03075 75 – 94 mm
	**B** Through-Bolted Fastening 	2 each set screws M8 2 each fastening nuts with caps Borehole Ø 13/18 mm, please turn to page 347.	Grip diameter 25/30 mm 05 0580 02308 glass door 8 – 19 mm 05 0580 04335 35 – 44 mm 05 0580 04345 45 – 54 mm 05 0580 04355 55 – 64 mm 05 0580 04365 65 – 74 mm 05 0580 04375 75 – 84 mm Grip diameter 35/40 mm 05 0580 02408 glass door 8 – 19 mm 05 0580 04435 35 – 44 mm 05 0580 04445 45 – 54 mm 05 0580 04455 55 – 64 mm 05 0580 04465 65 – 74 mm 05 0580 04475 75 – 84 mm

All details subject to modification

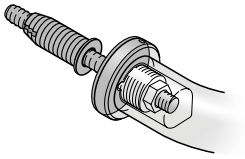
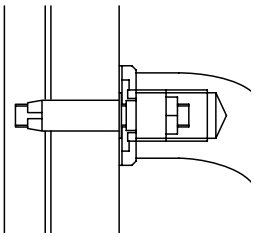
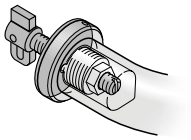
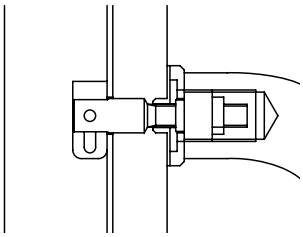
Fastening Methods
Door Pulls

Pull Handle Series Round M8

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66 6546, 66 6548, 66 6602, 66 6603, 66 6604, 66 6606, 66 6607, 66 6609, 66 6623, 66 6624, 66 6625, 66 6630

66 6650, 66 6652, 66 6653, 66 6655, 66 6662, 66 6669, 66 6679, 66 6681, 66 6683

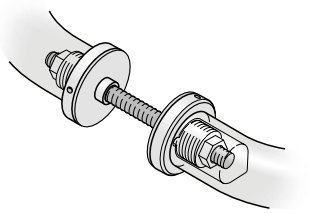
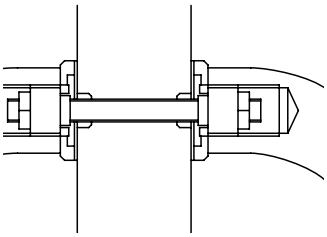
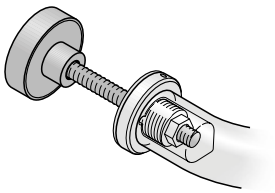
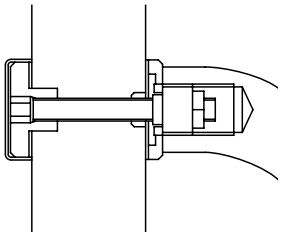
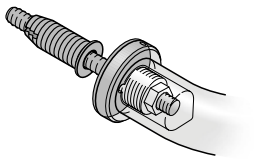
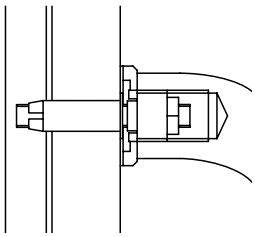
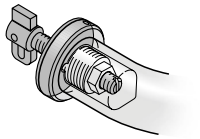
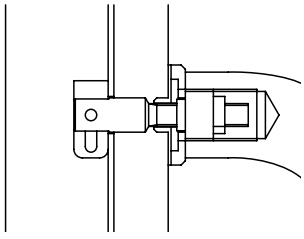
	Fastening Method	Fastening Accessories	Item Number	
	**C** Concealed Fastening with Threaded Insert 	2 each set screws M8 2 each expansion plugs brass dull nickel finish Borehole Ø 12.5 mm (wood doors)	05 0580 00335 Length of dowel	 34 mm
	**D** Concealed Fastening with Drop Clamp 	1 plastic washer 1 clamp Borehole Ø 13 mm (metal doors)	05 0580 09002 05 0580 09016	2 – 15 mm 16 – 30 mm

All details subject to modification

Fastening Methods
Door Pulls

Pull Handle Series Round M6

66 6610, 66 6611, 66 6612,
66 6613

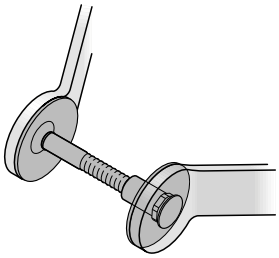
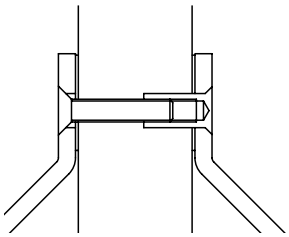
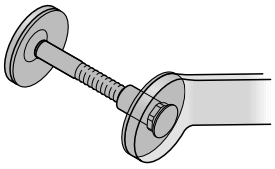
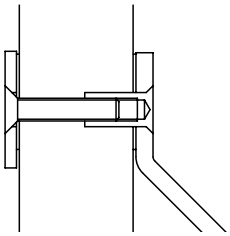
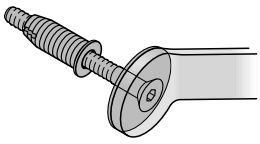
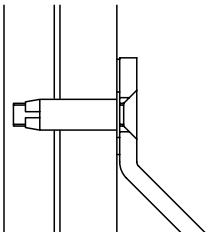
	Fastening Method	Fastening Accessories	Item Number
	**A** Back-to-Back Fastening 	2 each set screws M6 Borehole Ø 13 mm	05 0580 01208 Glass door 8 – 19 mm 05 0580 03235 35 – 54 mm 05 0580 03255 55 – 74 mm 05 0580 03275 75 – 94 mm
	**B** Through-Bolted Fastening 	2 each set screws M6 2 each fastening nuts with caps Borehole Ø 13/18 mm, please turn to page 66	Handle diameter 20/25 mm 05 0580 02208 Glass door 8 – 19 mm 05 0580 04235 35 – 44 mm 05 0580 04245 45 – 54 mm 05 0580 04255 55 – 64 mm 05 0580 04265 65 – 74 mm 05 0580 04275 75 – 84 mm
	**C** Concealed Fastening with Threaded Insert 	2 each set screws M6 2 each expansion plugs brass dull nickel finish Borehole Ø 12.5 mm (wood doors)	05 0580 00435 Length of dowel 34 mm
	**D** Concealed Fastening with Drop Clamp 	1 plastic washer 1 clamp Borehole Ø 13 mm (metal doors)	05 0580 09202 2 – 15 mm 05 0580 09216 16 – 30 mm

All details subject to modification

Fastening Methods
Door Pulls

Pull Handle Series

66 6615, 66 6616, 66 6674,
66 6675

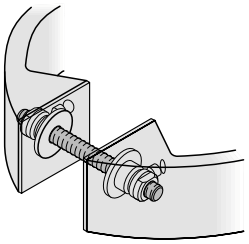
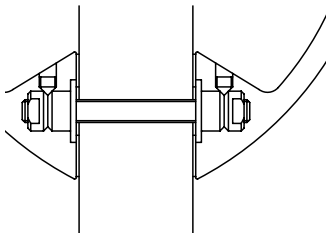
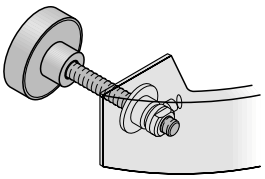
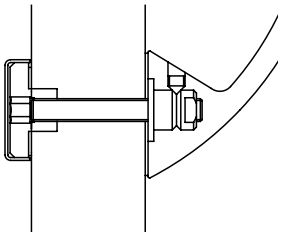
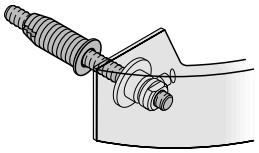
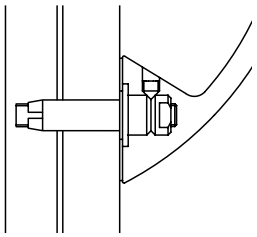
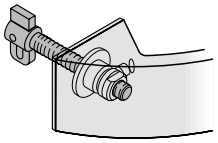
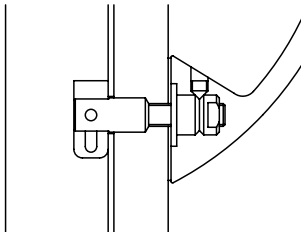
	Fastening Method	Fastening Accessories	Item Number	
	**A** Back-to-Back Fastening 	2 each countersunk screws M8 with sleeve nuts M8 stainless steel	05 0583 01008 Glass door	8 – 19 mm
		4 each plastic washers	05 0583 03034	34 – 43 mm
			05 0583 03044	44 – 53 mm
			05 0583 03054	54 – 63 mm
			05 0583 03064	64 – 73 mm
			05 0583 03074	74 – 83 mm
		Borehole Ø 13 mm		
	**B** Through-Bolted Fastening 	2 each countersunk screws M8 with sleeve nuts M8 stainless steel	05 0583 02008 Glass door	8 – 19 mm
		2 each washers stainless steel	05 0583 04036	36 – 45 mm
		4 each plastic washers	05 0583 04046	46 – 55 mm
			05 0583 04056	56 – 65 mm
			05 0583 04066	66 – 75 mm
			05 0583 04076	76 – 85 mm
		Borehole Ø 13 mm		
	**C** Concealed Fastening with Threaded Insert 	2 each countersunk screws M8 stainless steel	05 0583 00335 Length of dowel	34 mm
		2 each expansion plugs brass dull nickel finish		
		2 each plastic washers		
		Borehole Ø 12.5 mm (wood doors)		

All details subject to modification

Fastening Methods
Door Pulls

Pull Handle and Push and Pull Pad Handle Series

61 6108, 61 6186, 61 6187, 61 6188, 61 6190, 61 6191, 61 6192, 61 6193, 66 6519, 66 6520, 66 6526

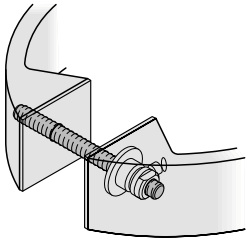
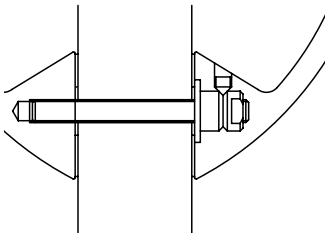
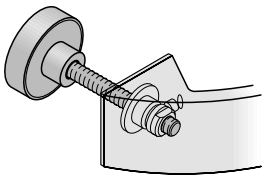
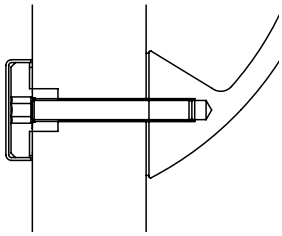
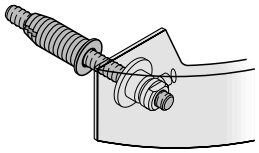
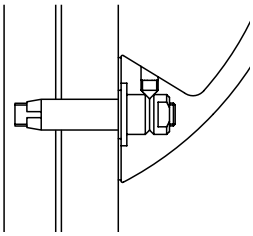
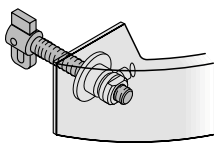
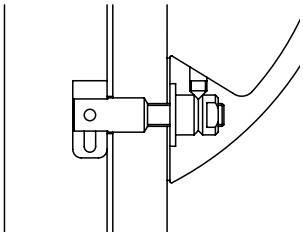
	Fastening Method	Fastening Accessories	Item Number	
	**A** Back-to-Back Fastening 	2 each set screws M8 Borehole Ø 13 mm	05 0587 01008 Glass door 05 0587 03035 05 0587 03055 05 0587 03075	 8 – 19 mm 35 – 54 mm 55 – 74 mm 75 – 94 mm
	**B** Through-Bolted Fastening 	2 each set screws M8 2 each fastening nuts with caps Borehole Ø 13/18 mm, please turn to page 347.	05 0587 02308 Glass door 05 0587 04335 05 0587 04345 05 0587 04355 05 0587 04365 05 0587 04375	 8 – 19 mm 35 – 44 mm 45 – 54 mm 55 – 64 mm 65 – 74 mm 75 – 84 mm
	**C** Concealed Fastening with Threaded Insert 	2 each set screws M8 2 each expansion plugs brass dull nickel finish Borehole Ø 12.5 mm (wood doors) Ø 13 mm (metal/plastic doors)	05 0587 00335 Length of dowel	 34 mm
	**D** Concealed Fastening with Drop Clamp 	1 plastic washer 1 clamp Borehole Ø 13 mm (metal doors)	05 0587 09202 05 0587 09216	2 – 15 mm 16 – 30 mm

All details subject to modification

Fastening Methods
Door Pulls

Pull Handle and Push and Pull Pad Handle Series

61 6112, 66 6642, 66 6643

	Fastening Method	Fastening Accessories	Item Number	
	**A** Back-to-Back Fastening 	2 each set screws M6 Borehole Ø 13 mm	05 0580 01208 Glass door 05 0580 03235 05 0580 03255 05 0580 03275	 8 – 19 mm 35 – 54 mm 55 – 74 mm 75 – 94 mm
	**B** Through-Bolted Fastening 	2 each set screws M6 2 each fastening nuts with caps Borehole Ø 13/18 mm, please turn to page 347.	05 0580 02208 Glass door 05 0580 04235 05 0580 04245 05 0580 04255 05 0580 04265 05 0580 04275	 8 – 19 mm 35 – 44 mm 45 – 54 mm 55 – 64 mm 65 – 74 mm 75 – 84 mm
	**C** Concealed Fastening with Threaded Insert 	2 each set screws M6 2 each expansion plugs brass dull nickel finish Borehole Ø 12.5 mm (wood doors)	05 0580 00435 Length of dowel	 34 mm
	**D** Concealed Fastening with Drop Clamp 	1 plastic washer 1 clamp Borehole Ø 13 mm (metal doors)	05 0580 09202 05 0580 09216	2 – 15 mm 16 – 30 mm

All details subject to modification

Fixed Doorknobs

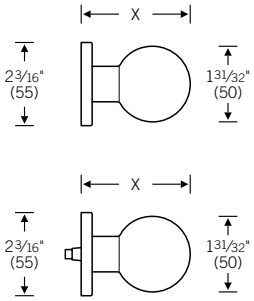
23 0802



23 0802 00005
Concealed surface mounting

23 0802 00006
Concealed through bolting

Stainless Steel X = 73 mm
Bronze X = 72 mm
Aluminium X = 77 mm

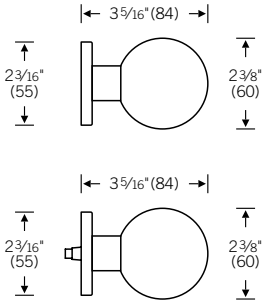


23 0803



23 0803 00005
(concealed surface mounting)

23 0803 00006
(concealed through bolting)



c:c screw holes 1½" (38 mm)

For technical information see page 360.

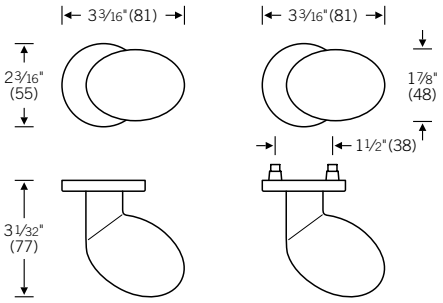
All details subject to modification

23 0804

23 0804 00005
(concealed surface mounting)

23 0804 00006
(concealed through bolting)





c:c screw holes 1½" (38 mm)

For technical information see page 360.

All details subject to modification

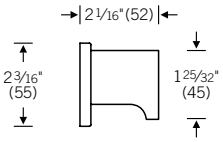
Fixed Doorknobs

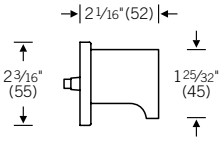
23 0828

23 0828 00005
(concealed surface mounting)

23 0828 00006
(concealed through bolting)







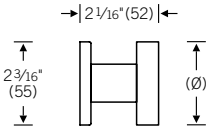
23 0829

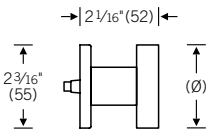
23 0829 00005
(concealed surface mounting)

23 0829 00006
(concealed through bolting)

Stainless Steel Ø = 55 mm
Bronze Ø = 50 mm
Aluminium Ø = 50 mm







c:c screw holes 1½" (38 mm)

For technical information see page 360.

All details subject to modification

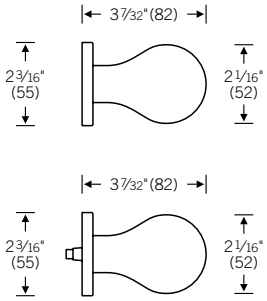
23 0844

Design: Jasper Morrison

23 0844 00005
(concealed surface mounting)

23 0844 00006
(concealed through bolting)





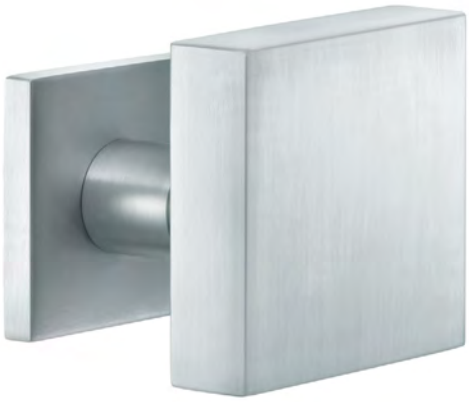
23 0873

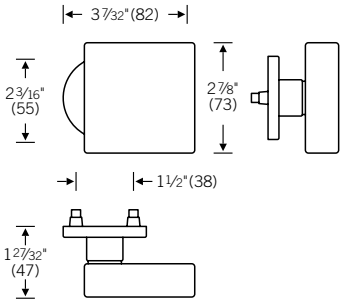
Design: Hadi Teherani

23 0873 00026
(concealed through bolting)

Aluminum only available in natural anodized finish (FSB 0105)

Owing to the large knob size, can also be used offset.





c:c screw holes 1½" (38 mm)

For technical information see page 360.

All details subject to modification

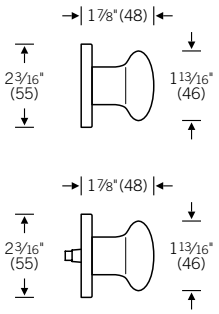
23 0880

Design: Christoph Mäckler

23 0880 00035
(concealed surface mounting)

23 0880 00036
(concealed through bolting)



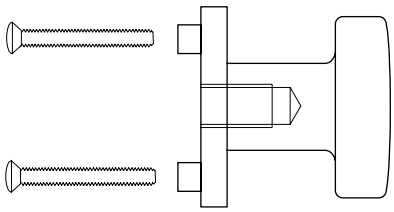


c:c screw holes 1½" (38 mm)

For technical information see page 360.

All details subject to modification

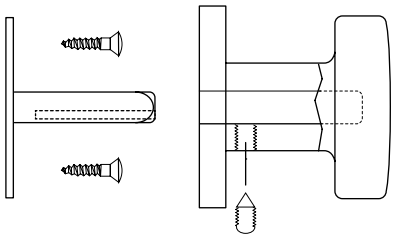
Fixed Knobs
Item No. 23xx



Where concealed through bolting is required, we supply doorknobs prepared for 3⁄16" (5 mm) screws and reinforced with two lugs with standard 1 ½" (38 mm) center to center. The M5 screws are 1 ¾" (45 mm) in length, making them suitable for doors 1 ⅜" – 1 ¾" (35 – 45 mm) thick. For other door thicknesses, screws of the appropriate size should be used.
In this configuration, the doorknob can be fastened to an FSB lever handle on the reverse by means of an FSB half-spindle (No. 0177) screwed into the ½" (12 mm) threaded neck of the knob.

Fixing method # 06, 26 or 36

Fixed Knobs
Item No. 23xx



Concealed surface mounting first involves screwing a steel base rose to the door. The dead knob is then positioned so as to precisely cover this and is secured with a punch-type screw.

Fixing method # 05 or 35

All details subject to modification



Butt Hinges
9101 Series

FSB Butt Hinges

FSB offers a line of hinges unique in their construction, finish, and performance.

FSB hinges are stainless steel, available in two-knuckle and three-knuckle versions that utilize carbon steel and oil-impregnated sintered bronze bearings to minimize wear. FSB stainless steel hinges can be supplied to simulate many of our popular finishes.

All hinges are UL & cUL listed up to 3 hours.

FSB hinges are ANSI A156.1-2006 grade 1.

All details subject to modification



Specifying Hinges
9101 Series

Example for Specifying

9101 - 0001 - 6204

Butt Hinge Series

9101

Hinge Type

0001

Insert your choice of the Two- or Three-Knuckle Hinge type.

Two-Knuckle

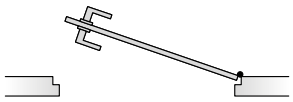
0000 (3½ × 3½" RH)
0001 (3½ × 3½" LH)
0002 (4 × 4" RH)
0003 (4 × 4" LH)
0004 (4½ × 4½" RH)
0005 (4½ × 4½" LH)
0006 (4½ × 4" RH)
0007 (4½ × 4" LH)

Three-Knuckle

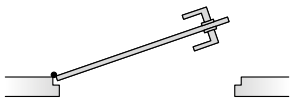
0050 (3½ × 3½")
0051 (4 × 4")
0052 (4½ × 4½")
0053 (4½ × 4")

Handing for Hinges

RH – Right Hand Hinge



LH – Left Hand Hinge



Material and Finish

6204

Insert your choice of finish using one of the four digit codes. Base material for hinges is stainless steel.

Finishes are approximate and finish codes are nearest equivalent.

0105 Aluminum Natural Color (689)
0710 Dark Bronze Color (710)

8120 Black (671)
8220 White (714)

6204 Satin (630)
6205 Polished (629)

4205 Polished Brass (606)

7615 Aged Bronze (703)

All details subject to modification

Two-Knuckle Hinges
Series 9101

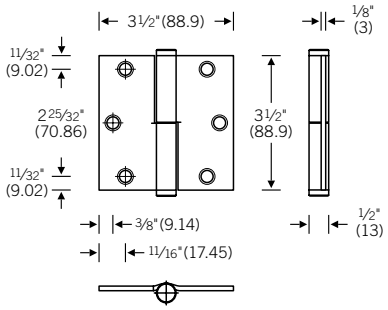
9101 0000 (RH)
9101 0001 (LH)



Two-Knuckle Hinge

3 ½ × 3 ½" (88.9 × 88.9 mm)
Minimum door thickness 1 ⅜" (35 mm)

9101 0001 pictured below



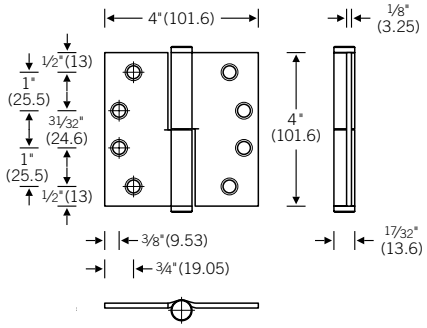
9101 0002 (RH)
9101 0003 (LH)



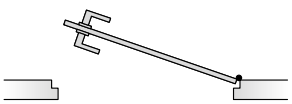
Two-Knuckle Hinge

4 × 4" (101.6 × 101.6 mm)
Minimum door thickness 1 ¾" (44 mm)

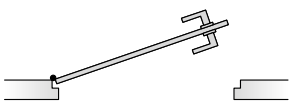
9101 0003 pictured below



RH – Right Hand Hinge



LH – Left Hand Hinge



Base material of all hinges is stainless steel. For all available finishes please refer to page 364.

All details subject to modification

Hinges

Two-Knuckle Hinges
Series 9101

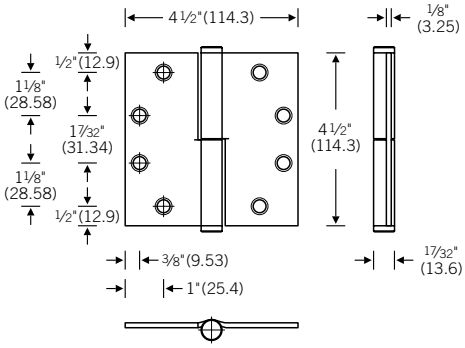
9101 0004 (RH)
9101 0005 (LH)



Two-Knuckle Hinge

4 ½ × 4 ½" (114.3 × 114.3 mm)
Minimum door thickness 1 ¾" (44 mm)

9101 0005 pictured below



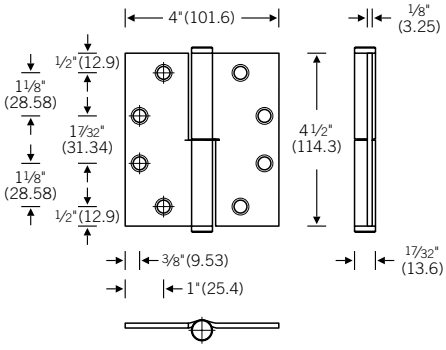
9101 0006 (RH)
9101 0007 (LH)



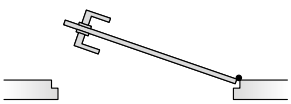
Two-Knuckle Hinge

4 ½ × 4" (114.3 × 101.6 mm)
Minimum door thickness 1 ¾" (44 mm)

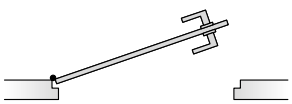
9101 0007 pictured below



RH – Right Hand Hinge



LH – Left Hand Hinge



Base material of all hinges is stainless steel. For all available finishes please refer to page 364.

All details subject to modification

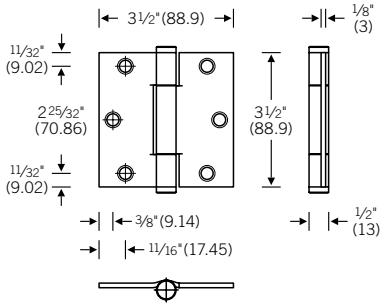
Three-Knuckle Hinges
Series 9101

9101 0050

Three-Knuckle Hinge

3 ½ × 3 ½" (88.9 × 88.9 mm)
Minimum door thickness 1 ⅜" (35 mm)



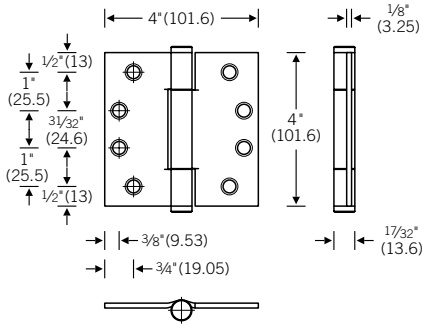


9101 0051

Three-Knuckle Hinge

4 × 4" (101.6 × 101.6 mm)
Minimum door thickness 1 ¾" (44 mm)





Base material of all hinges is stainless steel. For all available finishes please refer to page 364.

All details subject to modification

Hinges

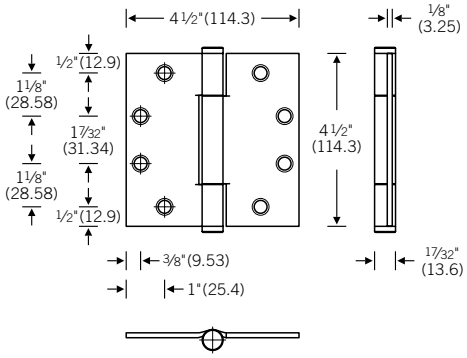
Three-Knuckle Hinges
Series 9101

9101 0052

Three-Knuckle Hinge

4 ½ × 4 ½" (114.3 × 114.3 mm)
Minimum door thickness 1 ¾" (44 mm)



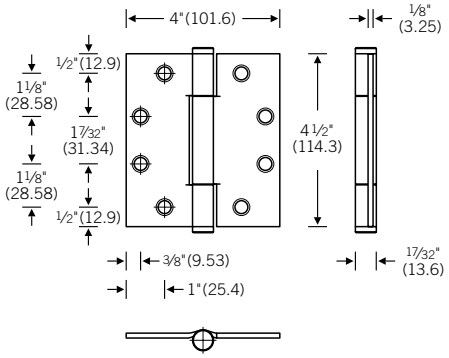


9101 0053

Three-Knuckle Hinge

4 ½ × 4" (114.3 × 101.6 mm)
Minimum door thickness 1 ¾" (44 mm)





Base material of all hinges is stainless steel. For all available finishes please refer to page 364.

All details subject to modification

Series 9101
Information and Specification

Site/Situation

Serious consideration should be given to the type of door and frame being installed as well as the nature of the building and the door's specific location. For example, very frequently used doors, in a hospital or school, tend to be put under more arduous stresses than in residential applications. The table to the right shows some estimates of traffic in certain building/locations.

All FSB two- and three-knuckle hinges are swaged and full mortise, for use with all door and frame materials. They are designed for use in high frequency situations, with other specific requirements guiding the appropriate hinge choice.

Frequency of Door Operation

Type of Building and Door	Annual Cycles	FSB Hinges to Use
High frequency		Special Order
Large dept. store entrance	1,500,000	
Large office bldg. entrance	1,200,000	
High frequency		FSB Standard Two- and Three-Knuckle Hinges
School entrance	400,000	
School toilet door	225,000	
Store or bank entrance	150,000	
Office building toilet door	118,000	
Average frequency		
School corridor door	30,000	
Office building corridor door	22,000	
Store toilet door	18,000	
Dwelling entrance	15,000	
Low frequency		
Dwelling toilet door	9,000	
Dwelling corridor door	3,600	
Dwelling closet door	2,200	

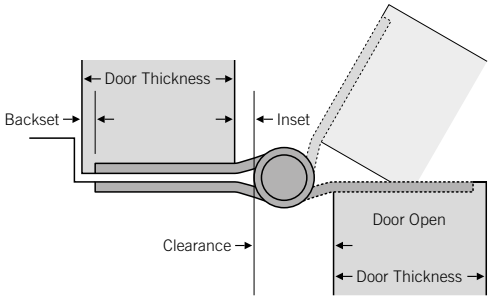
Hinge Size

The size of hinge to be used is determined not only by the weight but also the door size, thickness and any clearances required.

It should be noted that if extra "clearance" is required to allow the door to, for example, swing out and lay flat around any decorative casing then this should be considered in guiding hinge choice.

Guidance on the suitability of individual hinges can be found on the following and product specific pages.

The drawing to the right shows the plan detail of a standard hinge installation.



UL/cUL up to 3 hours
UL File - R27193

ANSI A156.1-2006 Grade 1

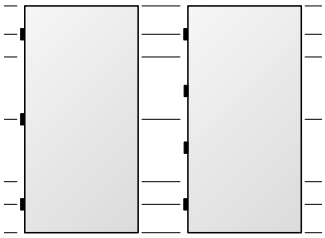
All details subject to modification

Hinges

Series 9101
Information and Specification

Number of Hinges

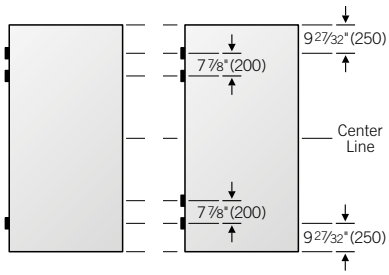
Typically, three hinges are fitted to each door. Hinge positions are determined by the weight of door, its situation and its construction/resistance to warping. The usual positioning is symmetrical, see examples.



Number of Hinges to be used on Standard Doors

Door height	No. hinges
Up to 7'	3 hinges
7' to 10'	4 hinges

Doors over 10' please contact FSB.



For extra heavy doors or doors with a low height to width ratio (see below) the positions should be modified to help account for the increased side loading* placed on the hinges.

*As the door has an eccentric centre of gravity a side loading force is placed on the hinges. This is the force trying to pull the hinges off the door frame.

Note: Two knuckle hinge separates at the midline using a non-removable 1 ¼" pin.

FSB three knuckle hinge does not separate and the pin is fixed.

Hinges for use with Doors of excess width

Wider doors increase the pressure and bending stresses exerted on the hinge. This must be allowed for by reduction in the mass of the door leaf supported by the hinges. The factors by which the door mass has to be adjusted for excessive widths of door are calculated by dividing the door height by its width.
For a factor of two or greater, no allowance has to be made. When the factor is less than two, the door mass has to be increased by the value required to bring the factor to two expressed as a percentage. These percentages are shown in the Side Loading Calculations to the right.

Side Loading Calculation

Door Size		Factor	Normal Increase of Mass of Door Leaf
Door Height	Door Width		
6' 8"	3' 6"	1.90	10 %
6' 8"	4' 0"	1.67	33 %
7' 0"	3' 6"	2.00	0 %
7' 0"	4' 0"	1.75	25 %
7' 6"	4' 0"	1.88	12 %
8' 0"	4' 0"	2.00	0 %

Approximate door construction average weights

The table to the right shows the approximate door weights per area when using various materials.

Example:
A 7'6" × 3'3" "Solid Core" door leaf at 1 ¾" thick will have an approximate weight of 110lb

Door Thickness	1 ⅜" (35 mm)		1 ¾" (44 mm)		2" (51 mm)		2 ⅛" (54 mm)	
	lbs/ft²	kg/m²	lbs/ft²	kg/m²	lbs/ft²	kg/m²	lbs/ft²	kg/m²
Hollow Metal	4	19.5	5	24.4	6 ½	31.7	7	33.6
Kalamein	—	—	5	24.4	—	—	—	—
Hollow Core	2	9.8	2 ½	12.2	—	—	—	—
Solid Core	3 ½	17.0	4 ½	22.0	5 ¼	25.6	5 ½	27.1
Mineral Core	3 ½	17.0	4	19.5	—	—	—	—
Pine (White)	3	14.6	3 ½	17.0	4	19.5	4 ¼	20.6
Oak	5	24.4	7	34.2	8	39.0	8 ½	41.3
Ash	4	19.5	5	24.4	6	29.3	6 ½	31.0
Birch	4 ¼	20.8	5 ½	26.9	6 ¼	30.5	6 ½	32.3
Mahagony	3 ½	17.0	4 ½	22.0	5 ¼	25.6	5 ½	27.1

All details subject to modification



Accessories

375 Door Stops & Cabinet Knobs
383 Letter Plates & Intercom
391 Bathroom Accessories
412 Window Handles

All details subject to modification

Door Stops and Coat Hooks Overview

38 3816
Page 375



38 3817
Page 375



38 3878
Page 376



38 3880
Page 376



38 3880
Page 377



38 3881
Page 377



38 3884
Page 378



38 3888
Page 378



38 3895
Page 379



36 3646
Page 379



Drawer Pulls, Cabinet Knobs and Furniture Accessories Overview

36 3656
Page 381



36 3679
Page 381



36 3632 *
Page 380



36 3689
Page 380



36 3691
Page 380



36 4001
Page 382



36 9865
Page 382



All details subject to modification

Mail Slots, Intercom Covers, Bell Push, and House Letter Overview

38 3801 | 38 3804
Page 387



38 3808
Page 384



38 3826
Page 385



38 3826
Page 386



38 3845
Page 387



38 3810
Page 387



38 3863
Page 387



38 4005
Page 388



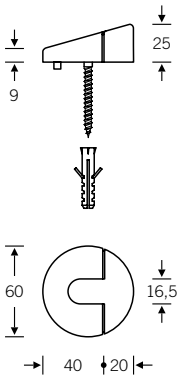
All details subject to modification

Materials and Finishes	Stainless Steel	Bronze	Aluminum	Brass	Black Rubber
	6204 (630)	7305 (611)	0105 (628)	4205 (605)	
	6205 (629)	7615 (615)	0205	4305 (606)	
		7625 (613)	0710 (710)	4404 (607)	
			0810 (711)		
			Powder Coated		

Door Stops

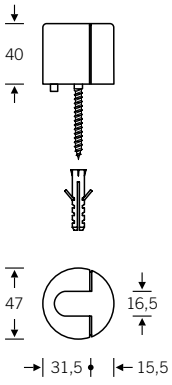
38 3816





38 3817





Before placing an order or carrying out any installation, please check the weight of the door leaf, the angle of impact, the height of the bottom edge of the door above the floor and the strength of the floor. Depending on requirements, it is possible to choose between simple stops, stops with anti-twist capability, stops with baseplates, directional and non-directional stops and stops fitted straight into the floor or those where rawlplugs are used.

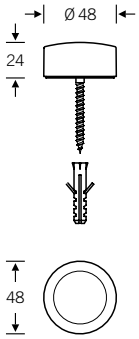
All details subject to modification

Door Stops

38 3878

Design: Christoph Ingenhoven

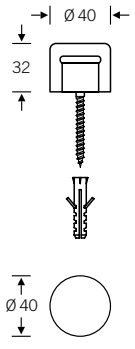




38 3880

38 3880 00001 (Black rubber)





Before placing an order or carrying out any installation, please check the weight of the door leaf, the angle of impact, the height of the bottom edge of the door above the floor and the strength of the floor. Depending on requirements, it is possible to choose between simple stops, stops with anti-twist capability, stops with baseplates, directional and non-directional stops and stops fitted straight into the floor or those where rawlplugs are used.

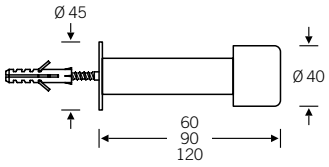
All details subject to modification

Door Stops

38 3880

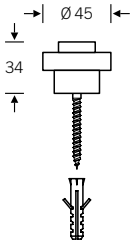
38 3880 00002 (120 mm)
38 3880 00003 (90 mm)
38 3880 00004 (60 mm)





38 3881





Before placing an order or carrying out any installation, please check the weight of the door leaf, the angle of impact, the height of the bottom edge of the door above the floor and the strength of the floor. Depending on requirements, it is possible to choose between simple stops, stops with anti-twist capability, stops with baseplates, directional and non-directional stops and stops fitted straight into the floor or those where rawlplugs are used.

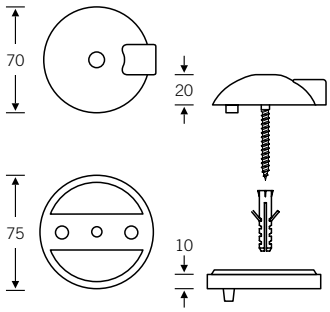
All details subject to modification

Door Stops

38 3884

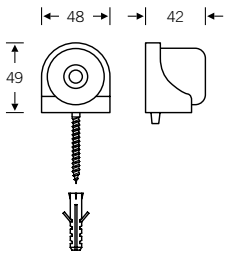
38 3884 00000 (Door stop)
38 3884 00010 (Black baseplate)





38 3888





Before placing an order or carrying out any installation, please check the weight of the door leaf, the angle of impact, the height of the bottom edge of the door above the floor and the strength of the floor. Depending on requirements, it is possible to choose between simple stops, stops with anti-twist capability, stops with baseplates, directional and non-directional stops and stops fitted straight into the floor or those where rawlplugs are used.

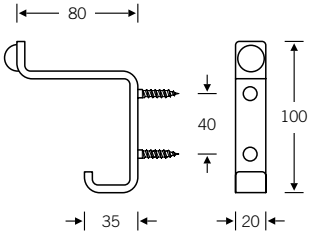
All details subject to modification

Coat Hooks / Wall-mounted Door Stops

36 3646

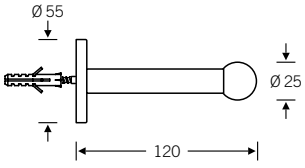
36 3646 00000 (Coat hook without buffer)
36 3646 00001 (Coat hook and doorstop with buffer)





38 3895





All details subject to modification

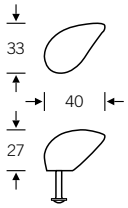
Cabinet Knobs

36 3632 *

Design: Philippe Starck
36 3632 004 (RH)
36 3632 005 (LH)

Supplied with M4 × 30 mm screw
* Aluminum available in natural color only

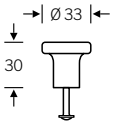




36 3689

Supplied with M4 × 30 mm screw

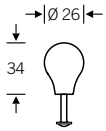




36 3654

Design: Jasper Morrison
Supplied with M4 × 30 mm screw

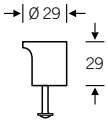




36 3691

Design: Franco Clivio
Supplied with M4 × 30 mm screw





All details subject to modification

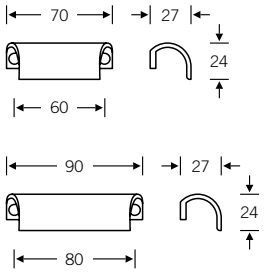
Accessories

Cabinet Pulls

36 3656 | 36 3657

36 3656 (70 mm)
36 3657 (90 mm)

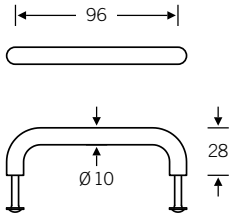




36 3679

Supplied with M4 x 26 mm screws





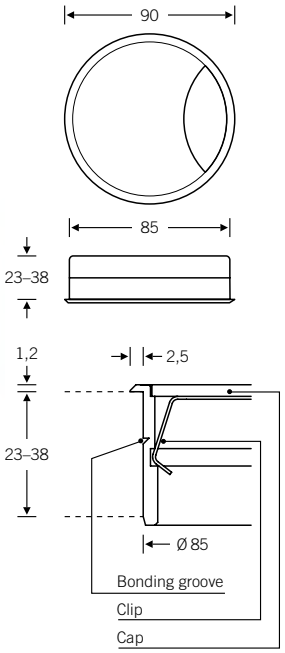
All details subject to modification

Accessories

Cable Box and Card Frame

36 9865





Height less rim	
36 9865 00000	38.0 mm
36 9865 00002	33.0 mm
36 9865 00004	29.0 mm
36 9865 00005	23.0 mm
External diameter	90.0 mm
Internal diameter	80.0 mm
Inlet diameter	85.0 mm
Rim thickness	1.2 mm
Rim projection	2.5 mm
Slit length	58.0 mm

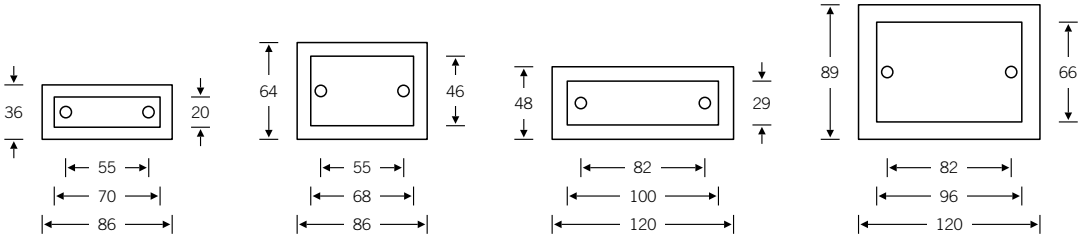
The FSB cable box ensures tidy cable management at work desks. Connections for telephones and fax machines, task lights, desktop computers and all that goes with them are ideally accommodated in this elegant cable box.
Its heavy-duty design is such that the cap remains firmly clipped in place no matter how inflexible the cabling beneath. The slit is sealed by a brush gasket that adapts itself to the cables inserted.

36 4001



Card Frame

36 4001 (paper dimension 74 × 105 mm)
36 4002 (paper dimension 37 × 105 mm)
36 4003 (paper dimension 52 × 74 mm)
36 4004 (paper dimension 26 × 74 mm)



36 4004 36 4003 36 4002 36 4001

All details subject to modification

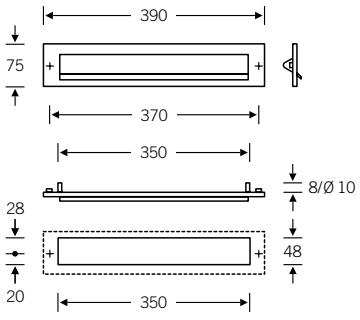
Letter Plates

38 3801 | 38 3804

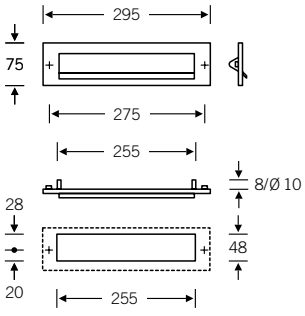
38 3801 02001 (without nameplate)
38 3801 02002 (with nameplate)
Opening size 325 × 32 mm
Door cutout 350 × 48 mm

38 3804 02001 (without nameplate)
38 3804 02002 (with nameplate)
Opening size 230 × 32 mm
Door cutout 255 × 48 mm





38 3801



38 3804

Fixation drill holes:
Ø 10 mm, 8 mm deep
Ø 5.5 mm through fixing
To be fixed using M5 screws (included)

All details subject to modification

Letter Plates

38 3808

38 3808 00061 (40 – 70 mm)
38 3808 00071 (71 – 100 mm)
Letter plate set without nameplate, with spacer and inner flap

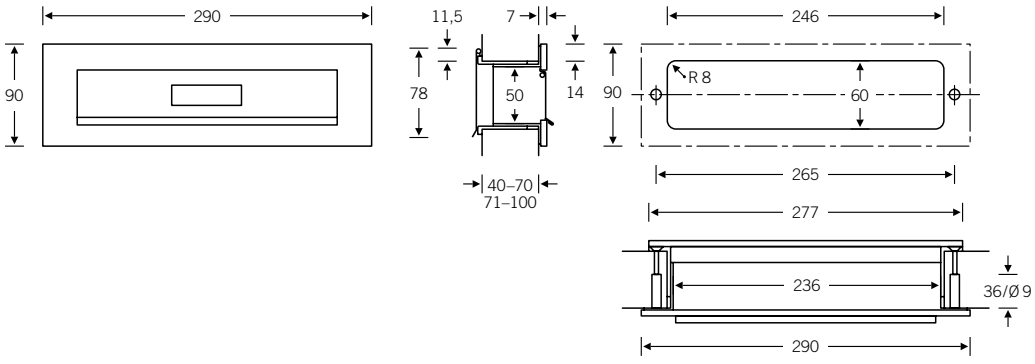
38 3808 00001
38 3808 00101 for wall mounting
Letter plate without nameplate, without spacer and inner flap

38 3808 00062 (40 – 70 mm)
38 3808 00072 (71 – 100 mm)
Letter plate set with nameplate, spacer and inner flap

38 3808 00002
38 3808 00102 for wall mounting
Letter plate with nameplate, without spacer and inner flap

Opening dimensions 230 × 35 mm
Door cutout 246 × 60 mm





Fixed invisibly from the inside or through the inner flap

Fixation drill holes:
Ø 9 mm, 36 mm deep
Ø 4.5 mm through fixing
To be fixed using M4 screws (included)

All details subject to modification

Letter Plates

38 3826

38 3826 02061 (40 – 70 mm)
38 3826 02071 (71 – 100 mm)
Letter plate set without nameplate, with spacer and inner flap

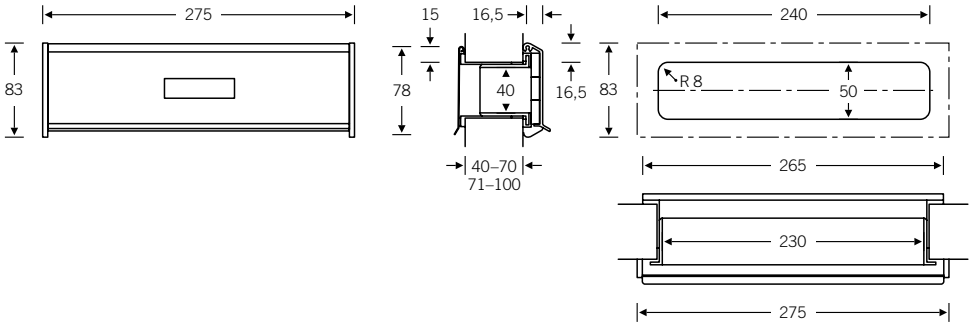
38 3826 02001
Letter plate without nameplate, without spacer and inner flap

38 3826 02062 (40 – 70 mm)
38 3826 02072 (71 – 100 mm)
Letter plate set with nameplate, spacer and inner flap

38 3826 02002
Letter plate with nameplate, without spacer and inner flap

Opening dimensions 230 × 40 mm
Door cutout 240 × 50 mm





Separate fixation of letter plate and inner flap

All details subject to modification

Letter Plates

38 3826 | 38 3829

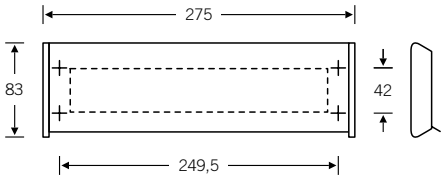
38 3826 02001 without nameplate
38 3826 02002 with nameplate

Opening dimension or door cutout
230 × 40 mm

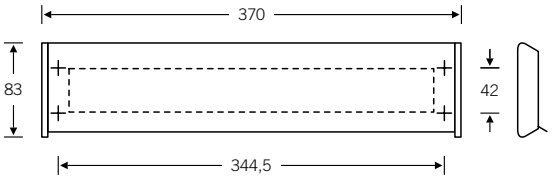
38 3829 02001 without nameplate
38 3829 02002 with nameplate

Opening dimension or door cutout
325 × 40 mm





38 3826



38 3829

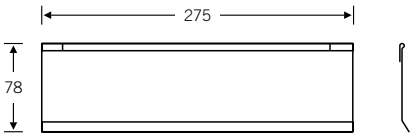
All details subject to modification

Mail Flap, Door Bell and Intercom

38 3845

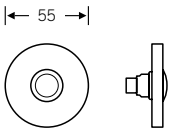
Suitable for door cutout 255 × 40 mm





38 3863



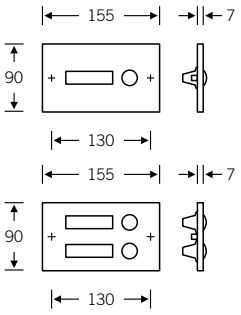


38 3810

38 3810 00011 (single)
38 3810 00012 (double)

Mill out size
W 110 × H 70 × D 30 mm





All details subject to modification

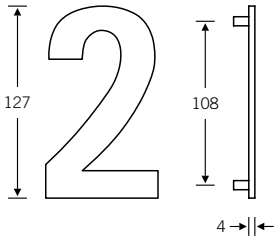
Instruction:
Bell pushes may only be connected to a protective low voltage (max 42 V). Given the high no-load voltage involved, we recommend connecting the light socket (lamp operation max. 24 V/40 mA) to the safety transformer (8 V).

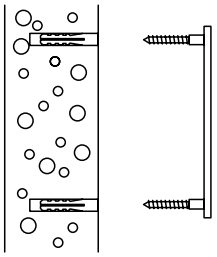
Door Numbers and Letters

38 4005



FSB's programme of numerals and letters draws on designs that Otl Aicher recommended to our company as a headline typeface. For Otl Aicher, clear legibility from a great distance was of the utmost importance.
Our numerals and letters are made of 4 mm-thick stainless steel or bronze sheet. Numerals and letters have the identical fixation points with threaded sockets (M4). These are fitted with bolts, which in turn are secured in rawlplugs (8 mm).
Every numeral or letter comes with a fixing template that also determines the distance between the characters. Custom spacing is easy to achieve.

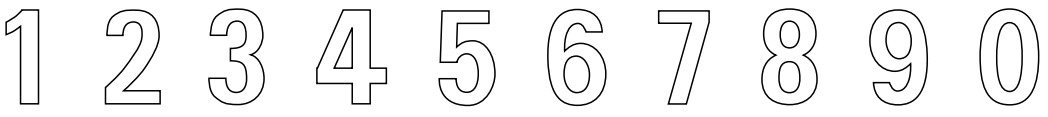


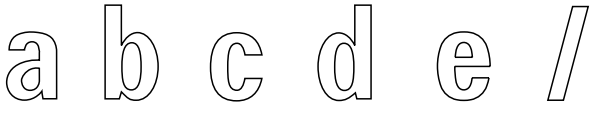


Item number:
38 4005 00... = available numbers or letters (shown above)

Example: 38 4005 00002 = Number 2

Only lower case letters "a" to "e" are available.





All details subject to modification



METRIC® + ErgoSystem® Bathroom Accessories
Bathroom Accessories

The bathroom is increasingly becoming a place for tranquillity and relaxation. As a result, notions of how such spaces are designed are having to be reconsidered too. The atmosphere of a space plays an increasingly important part alongside purely functional requirements.

METRIC®

Factors such as “natural quality”, “simplicity” and “well-being” are setting new standards both in the domestic sphere as well as in hotels and public areas. Growing significance is attached to the process of selecting and combining natural materials, finishes and colors. FSB is addressing this trend in the design of its METRIC® range of bathroom accessories.

The METRIC® design is deliberately understated, being defined by geometric shapes and high quality materials. The contrast between round roses and rectangular support profiles is a striking design feature that runs through the entire range. The combination of round functional parts and the supports made of rectangular profiles underscores the clear division of the system’s constituent parts.

Its astutely balanced proportions have a soothing effect and blend harmoniously with a variety of design concepts. Ergonomic criteria have been taken into account wherever they are an aid to fluent sequences of movements. The holder for the toothbrush mug, for instance, tilts towards the user, thus making it easier to remove the mug.

METRIC® is supplied in stainless steel satin finish or polished. Besides looking good, stainless steel boasts an authenticity that harmonizes particularly well with natural materials such as wood or granite and is excellently suited to well-appointed bathroom schemes. Stainless steel rightly lays claim to being exceedingly hard wearing, corrosion resistant, easy to look after and durable.

The quality with which FSB works stainless steel draws on decades of experience gained as a manufacturer of well-designed, finely machined hardware for doors and windows. This expertise has found its way into the design and production of the METRIC® range of bathroom accessories.

ErgoSystem®

The standard color combination FSB 8811 combines light grey and dark grey aluminum as shown to the left.

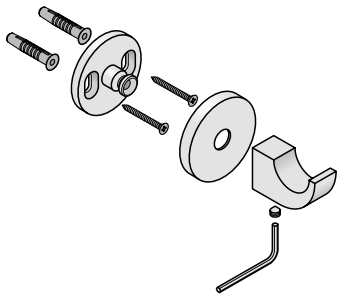
Hand-holds, handrails and the surfaces of utensils trays that are subject to constant loading either by being gripped or having utensils placed on them are coated in Anthracite Dark Grey Metallic (FSB 8809). Brackets, assembly devices, and working parts that are infrequently handled may additionally be refined with the accent color Aluminium Grey Metallic (FSB 8829, Satin Matt).

Surface quality In particular, finishes on hand-holds, handrails and shelves and trays brought about by electrostatic powder coating (EPC) are far more resilient to cleansers, scratching or wear than conventional powders and procedures of a purely decorative persuasion. The powders used at FSB have their origins in facade construction – an area, after all, in which the most exacting demands are traditionally made of surfaces in the erection of facades or to account for climatic impacts.

The matt color shade Anthracite Grey Metallic (FSB 8809) boasts above-average surface hardness and outstanding mechanical properties and can hence be recommended for areas in which particularly high loads are to be expected.

Fastening by screws or adhesive

The base rose features two parallel longitudinal slots for optimum dimensional coordination and is screwed to the wall with the fastenings supplied. The cover rose is then placed on top and aligned with the patterning as required. The final optical adjustment of the working parts is performed by firmly tightening the socket screw against the tensioning bolt.



As an alternative to conventional screw fastening, FSB also offers attachment by means of a bonding technique that uses an adhesive and facilitates residue-free removal.

All details subject to modification

METRIC® + ErgoSystem® Bathroom Accessories
Material & Finishes and Overview



FSB 6204
Stainless steel, satin (630)



FSB 6205
Stainless steel, polished (629)



FSB 8811
Brackets: FSB 8829
Aluminium Grey
Handrail/rail: FSB 8809
Anthracite Dark Grey

Materials and Finishes	Stainless Steel	Aluminum
	6204 (630)	8811
	6205 (629)	

82 8270 00011
Page 393



82 8460 00001
Page 393



82 8270 00014
Page 394



82 8270 00021
394 Page



82 8270 00015/16
Page 395



82 8460 00011
Page 396



82 8270 00010
Page 396



82 8460 00002
Page 396



82 8201 xxx10
Page 397



82 8420 xxxxx
Page 398



All details subject to modification

Overview

82 8270 01030
Page 399



82 8270 01031
Page 399



82 8460 00007/17
Page 400



82 8270 00003
Page 400



82 8270 01013
Page 401



82 8270 00017
Page 401



82 8270 00001/02
Page 401



82 8460 00003/04/18
Page 402



82 8270 00040
Page 403



82 8460 00012
Page 404



82 8270 00041
Page 403



82 8460 00014
Page 404



82 8270 00042
Page 405



82 8270 00008
Page 406



82 8241
Page 407



82 8270 00043
Page 405



82 8243
Page 407



82 8270 00050
Page 408



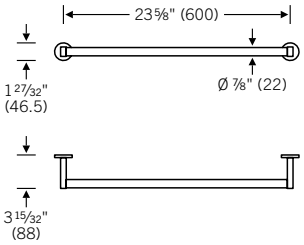
All details subject to modification

82 8270 xxx11

Single towel bar

82 8270 04511 (450 mm)
82 8270 00011 (600 mm)
82 8270 07511 (750 mm)
82 8270 09011 (900 mm)



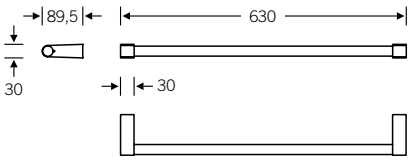


82 8460 00001

Single fixed bath towel rail

Custom lengths of up to 1,050 mm can be supplied to order



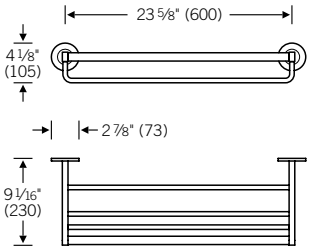


All details subject to modification

82 8270 00014

Combination towel rack and towel bar

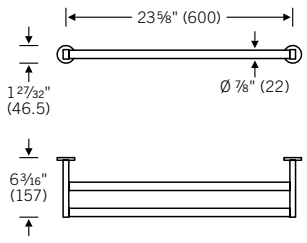




82 8270 00021

Double towel bar



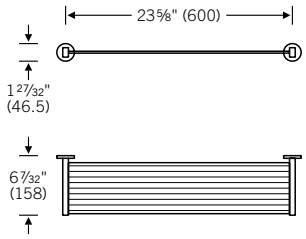


All details subject to modification

82 8270 00015

Frosted glass shelf

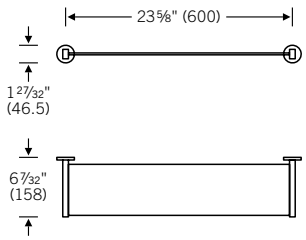




82 8270 00016

Clear glass shelf



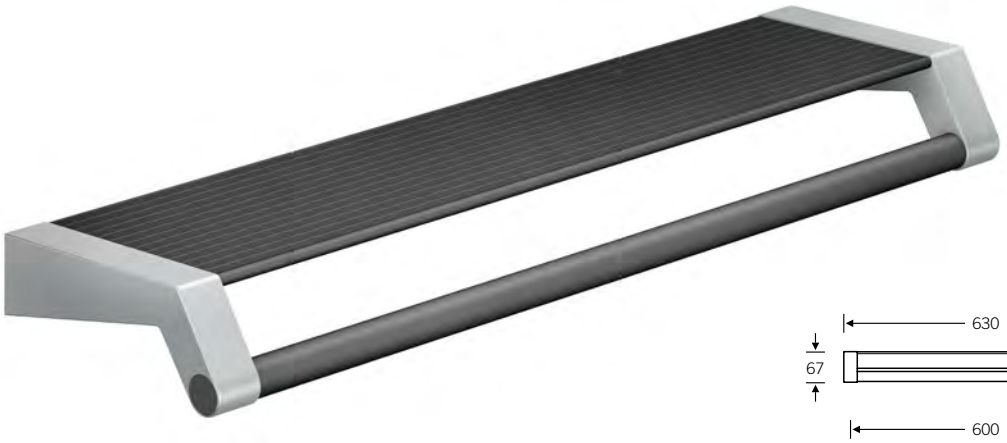


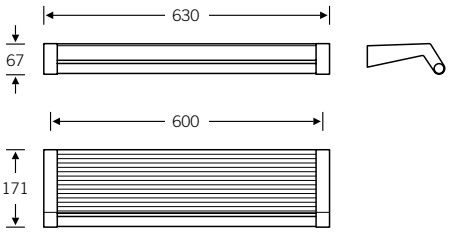
All details subject to modification

82 8460 00011

Utensils tray with grab/towel bar

Max grab rail loading 100 kg

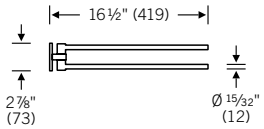




82 8270 00010

Swivel action double towel bar

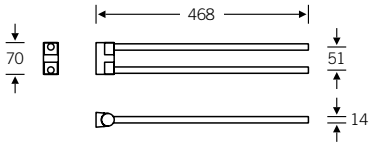




82 8460 00002

Double swivel-action hand towel bar



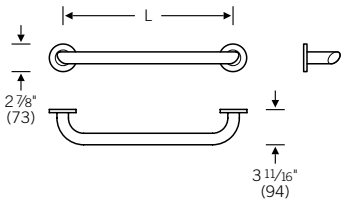


All details subject to modification

82 8201 xxx00

Grab bar

82 8201 03000 (L = 300 mm)
82 8201 04500 (L = 450 mm)
82 8201 06000 (L = 600 mm)
82 8201 09000 (L = 900 mm)





All details subject to modification

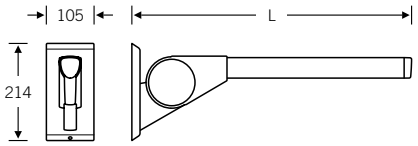
82 8420 000xx

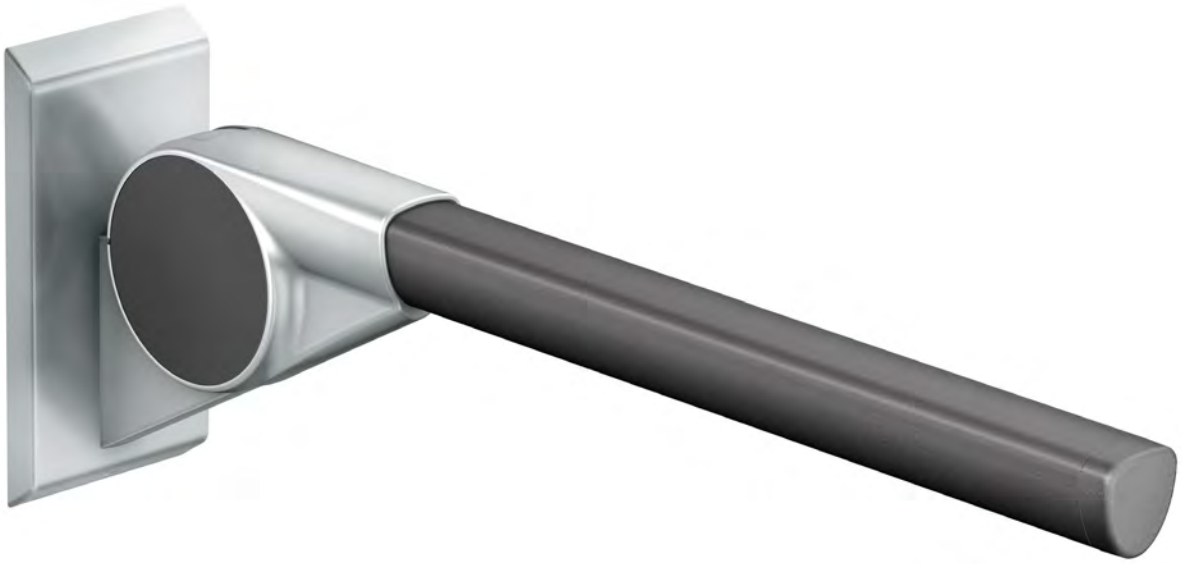
82 8420 00060 (L = 600 mm)
82 8420 00070 (L = 700 mm)
82 8420 00085 (L = 850 mm)
82 8420 00090 (L = 900 mm)

Drop-down support rail
with non-directional grip cross-section

Spring-loaded, ease of action adjustable

Max. loading 100 kg on the front edge



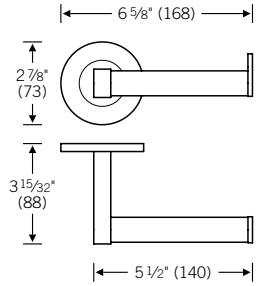


All details subject to modification

82 8270 01030

Toilet roll holder

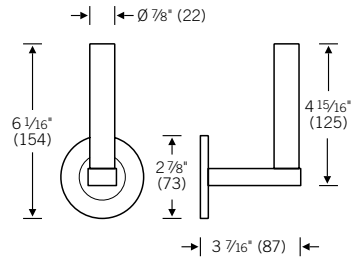




82 8270 01031

Spare toilet roll holder for one roll





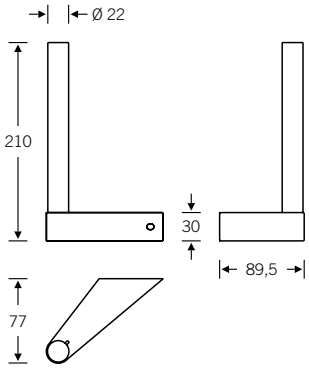
All details subject to modification

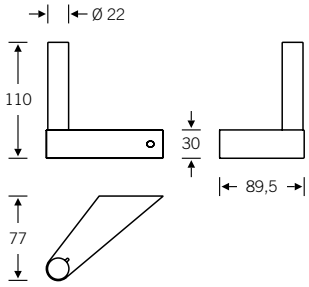
82 8460 000xx

82 8460 00007 (for two toilet-rolls)
82 8460 00017 (for one toilet-roll)

Spare toilet-roll holder





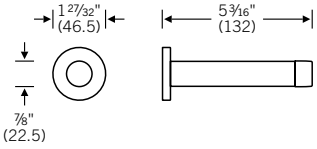


82 8270 00003

Door Stop

Custom length available



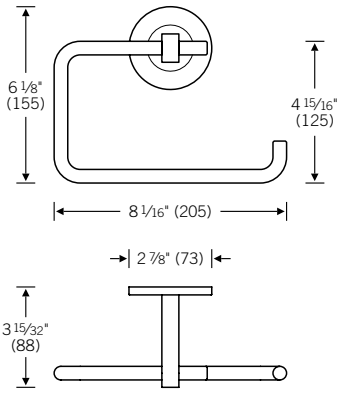


All details subject to modification

82 8270 01013

Towel ring

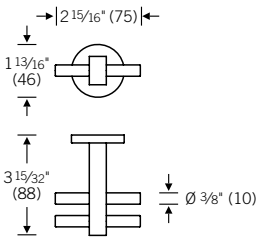




82 8270 00017



Toothbrush holder

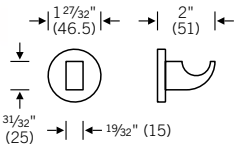


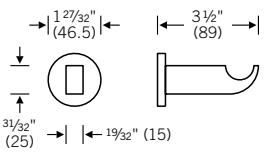
82 8270 00001
82 8270 00002





Robe or towel hooks





All details subject to modification

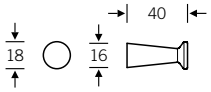
Bathroom

82 8460 00003

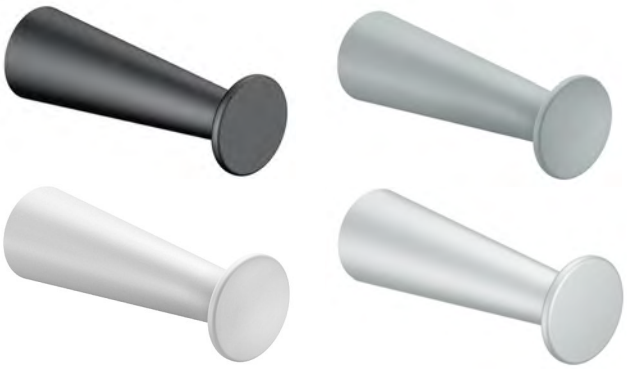


82 8460 00003

Wall hook

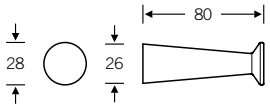


82 8460 00004



82 8460 00004

Coat hook

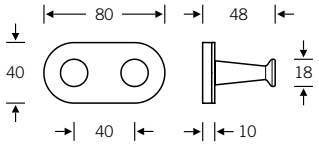


82 8460 00018



82 8460 00018

Double wall hook

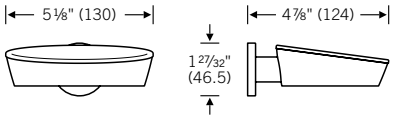


All details subject to modification

82 8270 00040

Soap holder with plastic soap dish

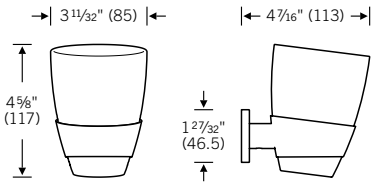




82 8270 00041

Mug holder with plastic mug



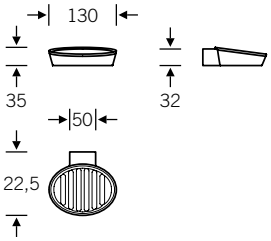


All details subject to modification

82 8460 00012

Soap holder with plastic soap dish

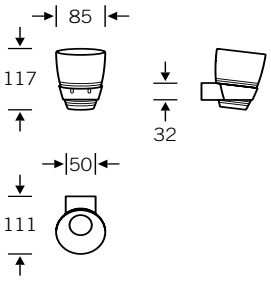




82 8460 00014

Mug holder with plastic mug



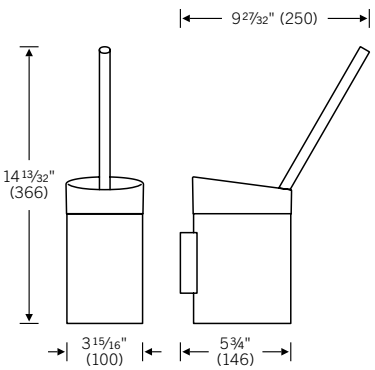


All details subject to modification

82 8270 00042

Toilet brush set oval, with removable plastic insert*

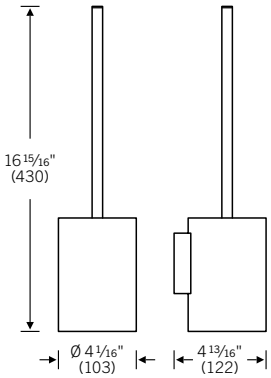




82 8270 00043

Toilet brush set round, with removable plastic insert*





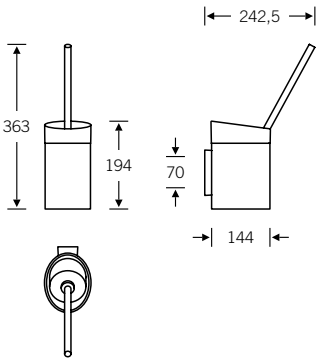
* The removable plastic insert for the toilet brush sets is washable up to 266 °F. The brush heads can be replaced and ordered separately.

All details subject to modification

82 8460 00008

Toilet brush set oval, with removable plastic insert*





* The removable plastic insert for the toilet brush sets is washable up to 266 °F. The brush heads can be replaced and ordered separately.

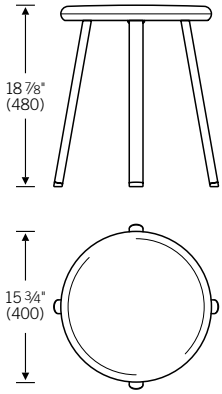
All details subject to modification

82 8243 Seat PUR

Free-standing bath stool with rotating seat

The free-standing stool has a rotating seat and is very convenient in the bathroom and for getting dressed/undressed.



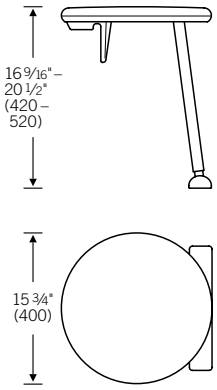


82 8241 Seat PUR

Bath stool with rotating seat

The height-adjustable bath stool with rotating seat is designed with comfort in mind. Propped up against the edge of the bath, it makes getting into the bath easier. Further bathroom functions such as body care or getting dressed/undressed are likewise facilitated.





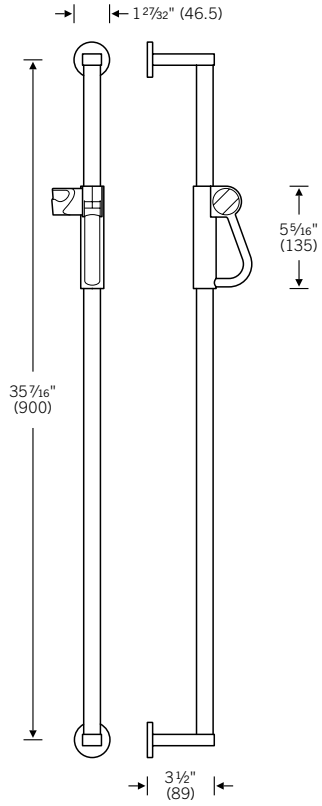
All details subject to modification

82 8270 00050

Slide rail with shower head holder
for wall mounting



The new shower head holder enables convenient showering: it combines an ergonomically shaped handle that is safe and easy to operate without any turning action involved and features a maintenance-free, continuously adjustable height and tilt mechanism.
The shower head holder can be conveniently adjusted with one hand – leaving the other free at all times and giving the user the opportunity, for instance, to hold onto a grab handle.



reddot design award
winner 2008

Innovationspreis
architecture + health

All details subject to modification

METRIC®
Specification Details

82 8270 00001
FSB METRIC bathroom accessory, robe or towel hook in stainless steel, wall mounting with concealed fastening and cover rose in stainless steel, Ø 46 mm. Includes fasteners for solid masonry, wood or drywall. Wall construction must be provided with order. Length 51 mm

82 8270 00002
FSB METRIC bathroom accessory, robe or towel hook in stainless steel, wall mounting with concealed fastening and cover rose in stainless steel, Ø 46 mm. Includes fasteners for solid masonry, wood or drywall. Wall construction must be provided with order. Length 89 mm

82 8270 00003
FSB METRIC bathroom accessory, door stop in stainless steel, wall mounting with concealed fastening and cover rose in stainless steel, Ø 46 mm. Includes fasteners for solid masonry, wood or drywall. Wall construction must be provided with order. Length 132 mm

82 8270 00010
FSB METRIC bathroom accessory, swivel action double towel bar in stainless steel, Ø 12 mm, wall mounting with concealed fastening and cover rose in stainless steel, Ø 73 mm. Includes fasteners for solid masonry, wood or drywall. Wall construction must be provided with order. Length 419 mm

82 8270 xxx11
FSB METRIC bathroom accessory, towel bar in stainless steel, Ø 22 mm mounting brackets in stainless steel, wall mounting with concealed fastening and cover roses in stainless steel, Ø 46 mm. Includes fasteners for solid masonry, wood or drywall. Wall construction must be provided with order.
82 8270 04511 Length 450 mm
82 8270 00011 Length 600 mm
82 8270 07511 Length 750 mm
82 8270 09011 Length 900 mm

82 8270 00014
FSB METRIC bathroom accessory, combination towel rack and towel bar in stainless steel, wall mounting with concealed fastening and cover rose in stainless steel, Ø 73 mm, 230 mm deep rack with Ø 22 mm towel bar. Includes fasteners for solid masonry, wood or drywall. Wall construction must be provided with order.

82 8270 00015
FSB METRIC bathroom accessory, glass wall-mounted shelf, in unbreakable glass (toughened safety glass), mounting brackets in stainless steel, plastic wall mounting with concealed fastening and cover roses in stainless steel, Ø 46 mm. Includes fasteners for solid masonry, wood or drywall. Wall construction must be provided with order. Surface area of tray 600 × 135 mm. Frosted finish

82 8270 00016
FSB METRIC bathroom accessory, glass wall-mounted shelf, in unbreakable glass (toughened safety glass), mounting brackets in stainless steel, plastic wall mounting with concealed fastening and cover roses in stainless steel, Ø 46 mm. Includes fasteners for solid masonry, wood or drywall. Wall construction must be provided with order. Surface area of tray 600 × 135 mm. Plain glass finish

82 8270 00017
FSB METRIC bathroom accessory, toothbrush holder in stainless steel, wall mounting with concealed fastening and cover rose, Ø 46 mm, in stainless steel. Includes fasteners for solid masonry, wood or drywall. Wall construction must be provided with order.

82 8270 00021
FSB METRIC bathroom accessory, double towel bar in stainless steel, Ø 22 mm mounting brackets in stainless steel, wall mounting with concealed fastening and cover roses in stainless steel, Ø 46 mm. Includes fasteners for solid masonry, wood or drywall. Wall construction must be provided with order. Length 600 mm

82 8270 00040
FSB METRIC bathroom accessory, soap holder in stainless steel, for washstand, with removable plastic soap tray (polycarbonate), wall mounting with concealed fastening and cover rose in stainless steel, Ø 46 mm. Includes fasteners for solid masonry, wood or drywall. Wall construction must be provided with order.

All details subject to modification

METRIC®
Specification Details

82 8270 00041
FSB METRIC bathroom accessory, glass holder in stainless steel, for washstand, with removable glass beaker. Ergonomic styling, tilting of holder conducive to ease of removal, wall mounting with concealed fastening and cover rose in stainless steel, Ø 46 mm. Includes fasteners for solid masonry, wood or drywall. Wall construction must be provided with order.

82 8270 00042
FSB METRIC bathroom accessory, toilet brush set in stainless steel and plastic (polycarbonate), for wall fastening, nylon brush head. Replaceable brush is automatically centred and positioned, for removal in line with body movements, large insertion aperture, easy to clean due to removable brush receptacle, with inner reservoir for disinfectants, concealed fastening. Includes fasteners for solid masonry, wood or drywall. Wall construction must be provided with order.

82 8270 00043
FSB METRIC bathroom accessory, toilet brush set in stainless steel and plastic (polycarbonate), for wall fastening, nylon brush head. Replaceable brush is automatically centred and positioned, for removal in line with body movements, large insertion aperture, easy to clean due to removable brush receptacle, with inner reservoir for disinfectants, concealed fastening. Includes fasteners for solid masonry, wood or drywall. Wall construction must be provided with order.

82 8270 00050
FSB METRIC bathroom accessory, shower rail in stainless steel, Ø 22 mm, with continuously adjustable shower head holder, supports in stainless steel, wall mounting with concealed fastening and cover rose in stainless steel, Ø 46 mm. Includes fasteners for solid masonry, wood or drywall. Wall construction must be provided with order. Length 900 mm

82 8270 01013
FSB METRIC bathroom accessory, towel ring in stainless steel, wall mounting with concealed fastening and cover rose in stainless steel, Ø 73 mm. Includes fasteners for solid masonry, wood or drywall. Wall construction must be provided with order.

82 8270 01030
FSB METRIC bathroom accessory, toilet roll holder in stainless steel, Ø 22 mm, with roll retainer, wall mounting with concealed fastening and cover rose in stainless steel, Ø 73 mm. Includes fasteners for solid masonry, wood or drywall. Wall construction must be provided with order.

82 8270 01031
FSB METRIC bathroom accessory, reserve toilet roll holder in stainless steel, Ø 22 mm, for one roll, wall mounting with concealed fastening and cover rose in stainless steel, Ø 73 mm. Includes fasteners for solid masonry, wood or drywall. Wall construction must be provided with order. Length 125 mm

82 8201 xxx00
FSB diagonal-oval ErgoSystem, grab handle in stainless steel, ideal grab and support functions, elliptical gripping surface, oval tubing 36.5 × 22 mm, concealed fastening and stainless steel covering profiles, and roses in stainless steel, Ø 73 mm. Includes fasteners for solid masonry, wood or drywall. Wall construction must be provided with order.
82 8201 03000 Length 300 mm
82 8201 04500 Length 450 mm
82 8201 06000 Length 600 mm
82 8201 09000 Length 900 mm

82 8241
FSB convenience stool in pleasant-on-the-skin, hygienic PUR and stainless steel, with rotating seat in PUR, Ø 400 mm, seat height-adjustable from 420 mm to 520 mm, max. loading 150 kg, for propping against the edge of the bath and, in combination with FSB bath seat, can be used as an aid to moving and getting in the bath.

82 8243
FSB free-standing and convenience stool in pleasant-on-the-skin, hygienic PUR and stainless steel, with rotating seat in PUR, Ø 400 mm, seat height 480 mm, with four free-standing feet in stainless steel.

All details subject to modification

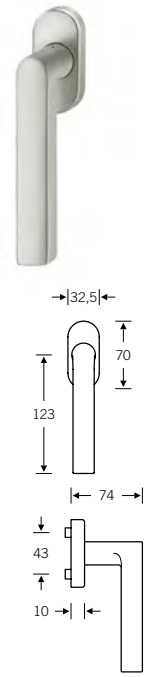


Window Handles

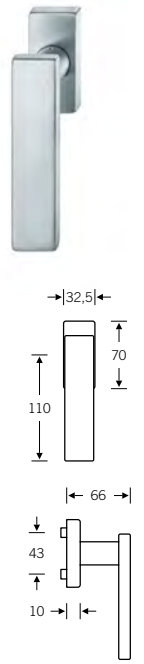
Materials and Finishes	Stainless Steel	Bronze	Aluminum
	6204 (630)	7305 (611)	0105 (628)
	6205 (629)	7615 (615)	0205
		7625 (613)	0410
			0510
			0710 (710)
			0810 (711)
			Powder Coated

Window Handles

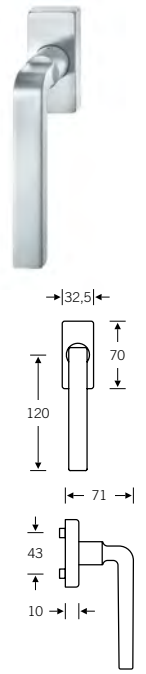
34 1001
Lever Design 1001



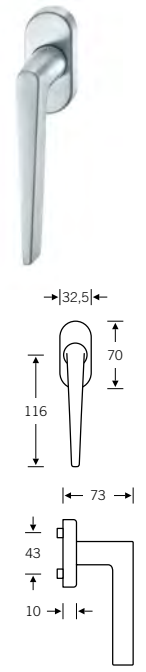
34 1003
Lever Design 1003



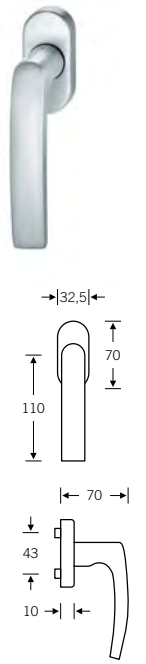
34 1004
Lever Design 1004



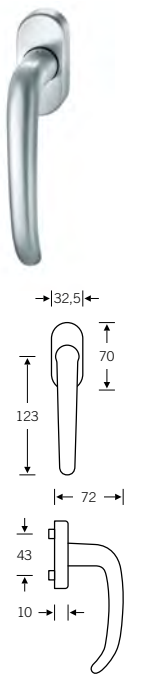
34 1005
Lever Design 1005



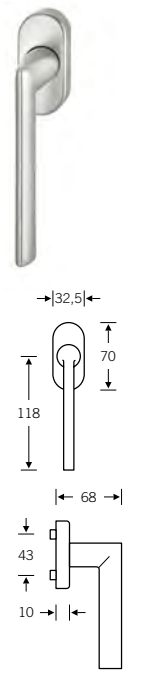
34 1015
Lever Design 1015



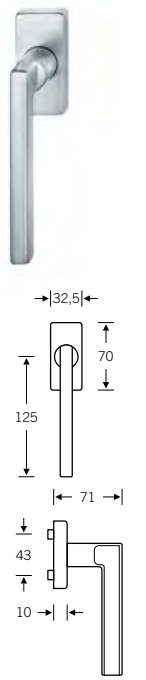
34 1023
Lever Design 1023



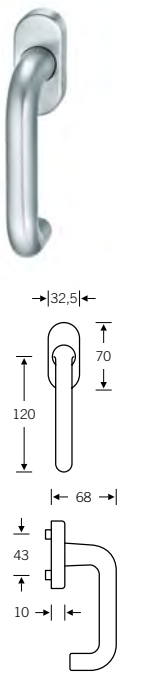
34 1025
Lever Design 1025



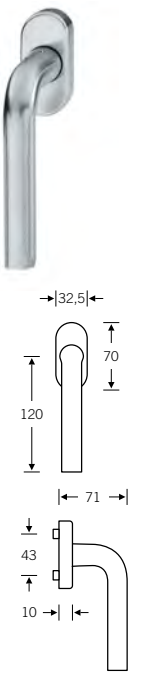
34 1035
Lever Design 1031 and 1035



34 1070
Lever Design 1070

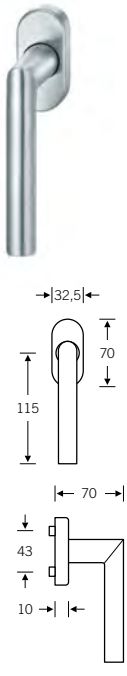


34 1075
Lever Design 1075

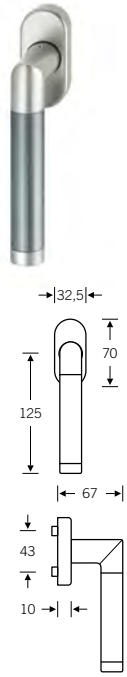


Window Handles

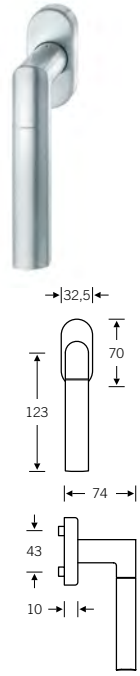
34 1076
Lever Design 1016 and 1076



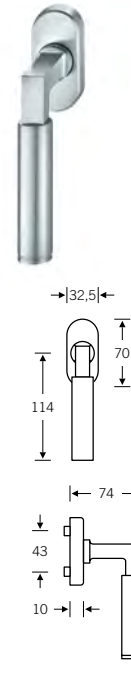
34 1077
Lever Design 1077



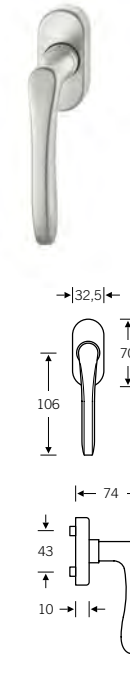
34 1078
Lever Design 1078



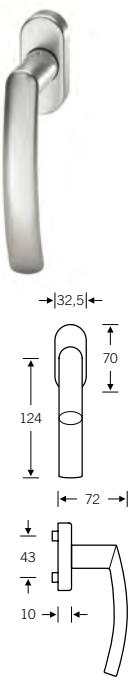
34 1102 * *
Lever Design 1102



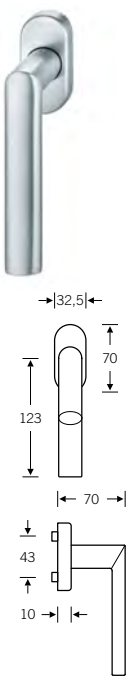
34 1106
Lever Design 1106



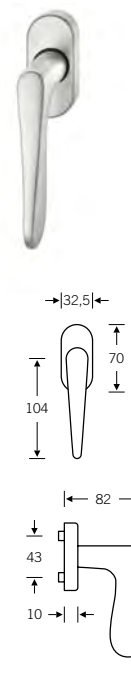
34 1107
Lever Design 1107



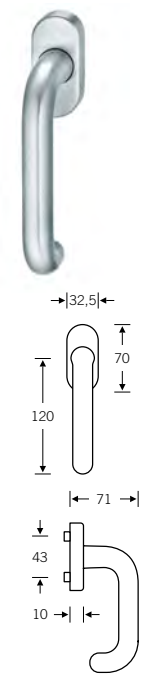
34 1108
Lever Design 1108



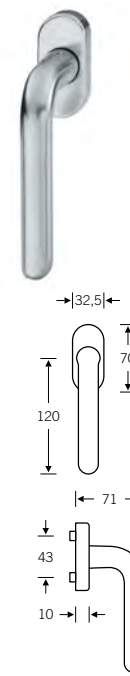
34 1144
Lever Design 1144



34 1146
Lever Design 1146



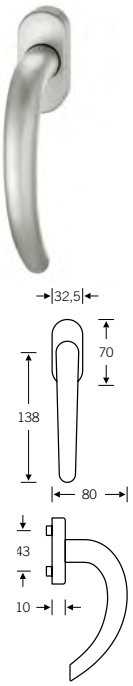
34 1147
Lever Design 1147



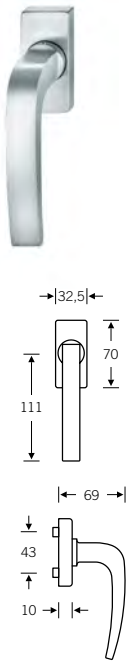
* 34 1102 window handle finish restrictions: Aluminum only available in 0105, Bronze only available in 7615 & 7625

Window Handles

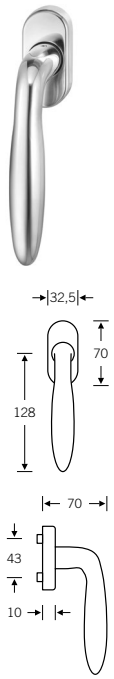
34 1160
Lever Design 1160



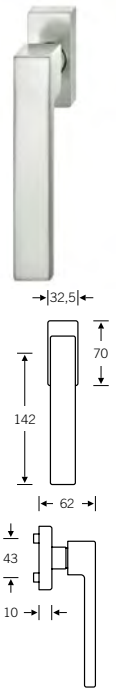
34 1163
Lever Design 1163



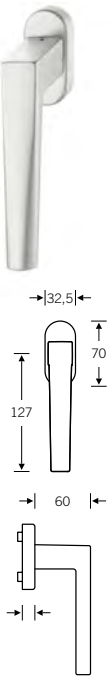
34 1176
Lever Design 1176



34 1183
Lever Design 1183



34 1241
Lever Design 1241

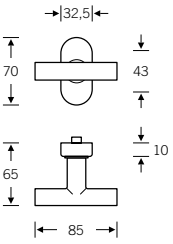


Window Handles

☐ Plastic white
■ Plastic black

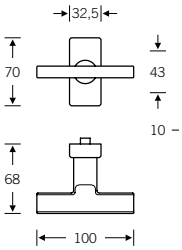
34 3403
Lever Design 1016 and 1076





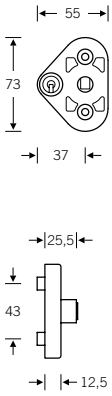
34 3784
Lever Design 1031 and 1035





34 3407
Window Handle Lock





Standard spindles are 7mm with 24-38mm projection.

The following handles are available with rectangular roses: 1001, 1003, 1004, 1005, 1035, 1102, 1163, 1183

Note: Set screws are visible on the top side of window handle shank.


36-45|46-55

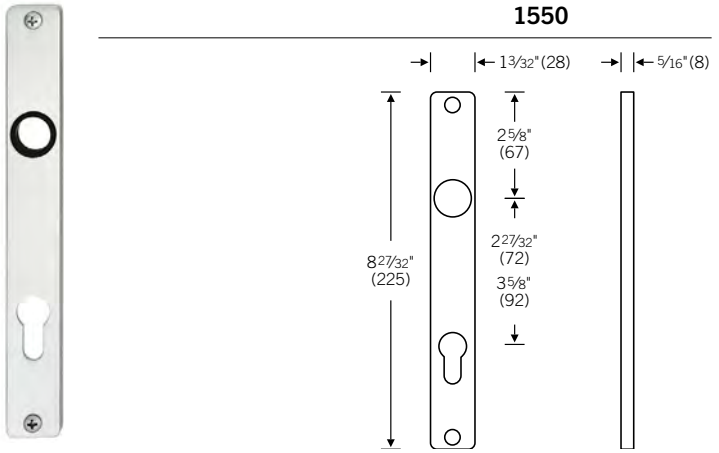
FSB Parts

421 Mortise Lock Bodies
431 Tubular Latches and Deadbolts
435 Spindles
438 Fasteners and Adaptors

European Mortise Lock Trim
EML Trim Sets

Dimensions and Details

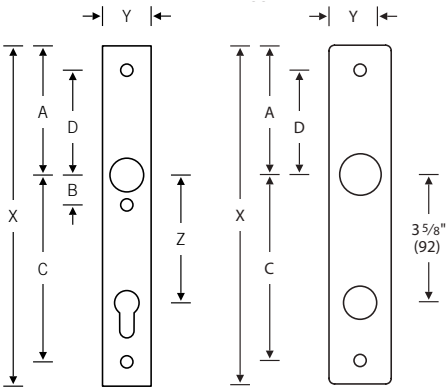
14 1550 01010 PZ 72 mm
14 1550 01012 PZ 92 mm



Note: European Escutcheons cannot be used with ANSI mortise locks.

Special Length Laser Cut Escutcheon

14 1458 00299



	PZ Cylinder	Mortise Cylinder
Escutcheon Thickness	☐ 3 mm ☐ 5 mm	☐ 3 mm ☐ 5 mm
Door Thickness		
Length X		
Width Y		
Dimension A		
Dimension B		
Dimension C		
Dimension D		
Spacing Z		
Holes		
Screw Fasteners (visibility)	☐ one side ☐ both sides	☐ one side ☐ both sides
Handle Bearing	☐ loose ☐ turnably fixed*	☐ loose ☐ turnably fixed*

* only for screws visible one side
Please specify 6204 or 6205 finish.

All details subject to modification

Lock Correlation Table

Lock Body Number	Lockset Function	Lock Code
SML 7100	Active Dummy	SML/SMT Y/Z
SML 7122	Store Door	SML/SMT A
SML 7124	Dormitory	SML/SMT B
	Privacy	SML/SMT E
	Patio	SML/SMT T
SML 7125	Passage	SML/SMT C
SML 7134	Hotel	SML/SMT D
SML 7142	Public Restroom	SML/SMT F
SML 7145	Classroom	SML/SMT G
SML 7148	Entrance	SML/SMT H
SML 7156	Office	SML/SMT I
SML 7158	Institutional	SML/SMT V
SML 7158 (EU/EL)	Electrified Institutional	SML/SMT V (EU/EL)
SML 7159	Storeroom	SML/SMT J
SML 7159 (EU/EL)	Electrified Storeroom	SML/SMT J (EU/EL)
SML 7167	Apartment	SML/SMT K
SML 7181	Deadlock	SML/SMT M
	Deadlock	SML/SMT N
	Deadlock	SML/SMT P
	Deadlock	SML/SMT R
	Deadlock	SML/SMT S
NML 7100	Active Dummy	NML/NMT Y/Z
NML 7122	Store Door	NML/NMT A
NML 7124	Dormitory	NML/NMT B
	Privacy	NML/NMT E
	Patio	NML/NMT T
NML 7125	Passage	NML/NMT C
NML 7142	Public Restroom	NML/NMT F
NML 7145	Classroom	NML/NMT G
NML 7148	Entrance	NML/NMT H
NML 7156	Office	NML/NMT I
NML 7159	Storeroom	NML/NMT J
NML 7181	Deadlock	NML/NMT M
	Deadlock	NML/NMT N
	Deadlock	NML/NMT P
	Deadlock	NML/NMT R
	Deadlock	NML/NMT S
EML 0001	Store Door	EML A
	Dormitory	EML B
EML 0002	Privacy	EML E
EML 0003	Passage	EML C

All details subject to modification

Standard Mortise Lock Series SML and SMT
Lock Body and Functions



Series SML and SMT

Standard Mortise Lock Body

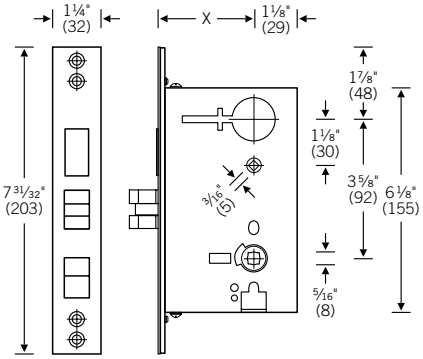
Recommended for minimum 1 ¾" (45 mm) door thickness with standard 1 ¼" (32 mm) armor front.
1" (25.4 mm) armor front available for doors with 1 ⅜" (35 mm) door thickness.

Knob strength available.

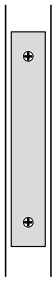
C-UL-US Listing
File No: R16617

Backsets
2 ½" (64 mm)
2 ¾" (70 mm)
3 ¾" (95 mm)
5" (127 mm)
6" (152 mm)

Lock Body
All SML and SMT use the same lock bodies.



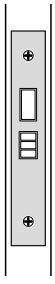
SML 7100



Active Dummy Mortise Case
Function Y
Active dummy handle either side.

Function Z
Active dummy handle single side only with blind cover on opposing side.

SML 7122

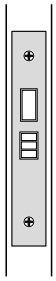


Store Door, Function A – ANSI Code F14
Latch bolt by handle either side. Deadbolt by key either side.

All details subject to modification

Standard Mortise Lock Series SML and SMT
Lock Body and Functions

SML 7124

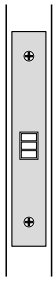


Dormitory, Function B – ANSI Code F13
Deadbolt by thumb turn inside and key or emergency release outside.

Privacy, Function E – ANSI Code F19
Latch bolt by handle either side. Deadbolt by thumbturn inside and emergency key outside. Use of inside handle retracts latch and deadbolt simultaneously, automatically unlocking outside handle. Outside handle is rigid when deadbolt is thrown by thumbturn.

Patio, Function T
Latch bolt by handle either side. Deadbolt by thumbturn inside. Outside handle is rigid when deadbolt is thrown by thumbturn. Use of inside handle retracts latch and deadbolt simultaneously.

SML 7125



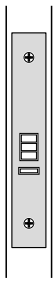
Passage, Function C – ANSI Code F01
Latch bolt by handle either side.

SML 7134



Hotel, Function D – ANSI Code F15
Latch bolt by handle inside and guest or master key outside. Outside handle always rigid. Deadbolt by thumb-turn inside and service key only outside. Use of inside handle retracts latch and deadbolt simultaneously. Auxiliary latch deadlocks latch bolt.

SML 7142

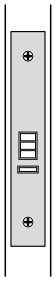


Public Restroom, Function F – ANSI Code F09
Latch bolt by handle either side unless outside handle is locked by master key from inside (cylinders are provided KD). When outside handle is locked, latch bolt by key outside and handle inside. Auxiliary latch deadlocks latch bolt.

All details subject to modification

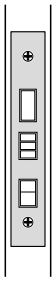
Standard Mortise Lock Series SML and SMT
Lock Body and Functions

SML 7145



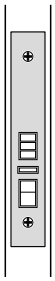
Classroom, Function G – ANSI Code F05
Latch bolt by key outside and handle either side unless outside handle is locked by key outside. Auxiliary latch deadlocks latch bolt.

SML 7148



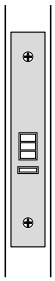
Entrance, Function H – ANSI Code F12
Latch bolt by key outside and handle either side unless outside handle is locked by toggle. Deadbolt by key outside and thumbturn inside. Inside handle retracts latch and deadbolt. Outside handle is rigid when deadbolt is thrown by key or thumbturn.

SML 7156



Office, Function I – ANSI Code F04
Latch bolt by key outside and handle either side unless outside handle is locked by toggle. Auxiliary latch deadlocks latch bolt.

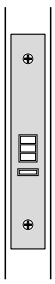
SML 7158



Institutional, Function V – ANSI Code F30
Latch bolt by key either side. Inside* and outside handle always rigid. Auxiliary latch deadlocks latch bolt.

*Verify code compliance before using this function.

SML 7159



Storeroom, Function J – ANSI Code F07
Latch bolt by handle inside and key outside. Outside handle always rigid. Auxiliary latch deadlocks latch bolt.

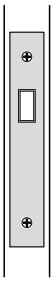
All details subject to modification

SML 7167



Apartment, Function K – ANSI Code F20
Same as SML 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.

SML 7181



Deadlock
Function M – ANSI Code F18
Deadbolt by key outside. No operation inside.

Function N – ANSI Code F16
Deadbolt by key either side.

Function P – ANSI Code F17
Deadbolt by key outside and thumbturn inside.

Function R
Deadbolt by thumbturn inside. No operation outside.

Function S
Deadbolt by thumbturn inside and emergency release outside.

SML 7158 VEU/VEL

EU = fail secure
EL = fail safe



Electrified Institutional, Function VEU/VEL
Latchbolt retracted by key on either side. Switched power allows both levers to retract latchbolt.
Auxiliary latch deadlocks latch bolt.
EU = Inside and outside lever simultaneously unlocked electronically.
EL = Inside and outside lever simultaneously locked electronically.

SML 7159 JEU/JEL

EU = fail secure
EL = fail safe



Electrified Storeroom, Function JEU/JEL
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.
EU = Power off, Locks outside lever by solenoid.
EL = Power on, Locks outside lever by solenoid.

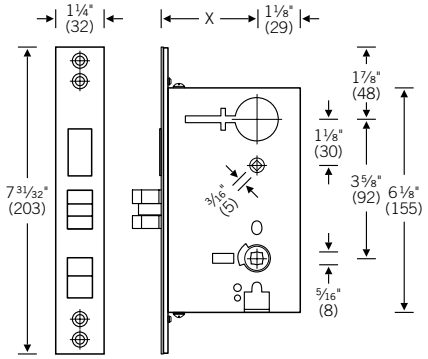
All details subject to modification

Electrified Mortise Lock Series SML and SMT
Lock Body and Functions



Series SML/SMT EL or SML/SMT EU

Recommended for minimum 1 ¾" (45 mm) door thickness with standard 1 ¼" (32 mm) armor front.
1" (25.4 mm) armor front available for doors with 1 ⅜" (35 mm) door thickness.



SML 7158 EU/EL

Electrified Institutional, JU/JL Function

EU = fail secure
EL = fail safe



Solenoid activated mortise lock.

EL function – Inside and outside handles simultaneously locked electronically.
EU function – Inside and outside handles simultaneously unlocked electronically.

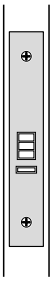
Latchbolt retracted by key on either side. Switched power allows both levers to retract latchbolt.
Auxiliary latch deadlocks latch bolt.

Monitoring Options
RX = Request to Exit Switch
LM = Latchbolt Monitor Switch
DP = Door Position Switch

SML 7159 EU/EL

Electrified Storeroom, JU/JL Function

EU = fail secure
EL = fail safe



Solenoid activated mortise lock.

EL function – Power ON, locks outside lever.
EU function – Power OFF, unlocks outside lever.

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
RX = Request to Exit Switch
(monitors inside handle)
LM = Latchbolt Monitor Switch
(monitors position of latchbolt)
DS = Door Position Switch
(Monitors door via auxiliary latch)

All details subject to modification



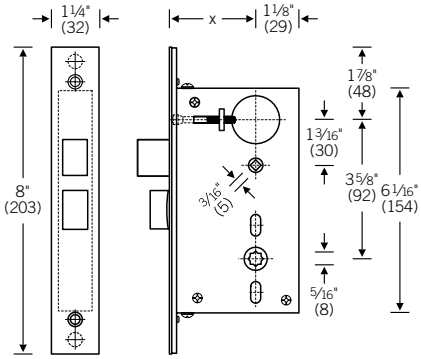
Series NML

Narrow Mortise Lock

Recommended for minimum 1¾" (45 mm) door thickness with standard 1¼" (32 mm) armor front.
1" (25.4 mm) armor front available for doors with 1⅜" (35 mm) door thickness.

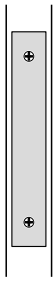
Lock Body
All NML and NMT use the same lock bodies.

Backsets
1½" (38 mm)
1¾" (45 mm)
2" (51 mm)
2¼" (57 mm)



NML 7100

Active Dummy, Y, Z Functions



Active Dummy Mortise Case Function Y
Active dummy handle either side.

Function Z
Active dummy handle single side only with blind cover on opposing side.

NML 7122

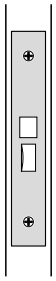


Store Door, Function A – ANSI Code F14
Latch bolt by handle either side. Deadbolt by key either side.

All details subject to modification

Narrow Mortise Lock Series NML and NMT
Lock Body and Functions

NML 7124

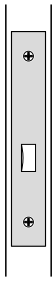


Dormitory, Function B – ANSI Code F13
Deadbolt by thumb turn inside and key or emergency release outside.

Privacy, Function E – ANSI Code F19
Latch bolt by handle either side. Deadbolt by thumbturn inside and emergency key outside. Use of inside handle retracts latch and deadbolt simultaneously, automatically unlocking outside handle. Outside handle is rigid when deadbolt is thrown by thumbturn.

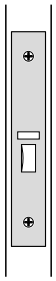
Patio, Function T
Latch bolt by handle either side. Deadbolt by thumbturn inside. Outside handle is rigid when deadbolt is thrown by thumbturn. Use of inside handle retracts latch and deadbolt simultaneously.

NML 7125



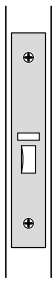
Passage, Function C – ANSI Code F01
Latch bolt by handle either side.

NML 7142



Public Restroom, Function F – 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.

NML 7145



Classroom, Function G – 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.

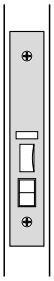
All details subject to modification

NML 7148



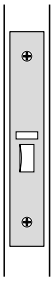
Entrance, Function H – ANSI Code F12
Latch bolt by key outside and handle either side unless outside handle is locked by toggle. Deadbolt by key outside and thumbturn inside. Inside handle retracts latch and deadbolt. Outside handle is rigid when deadbolt is thrown by key or thumbturn.

NML 7156



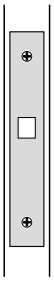
Office, Function I – ANSI Code F04
Latch bolt by key outside and handle either side unless outside handle is locked by toggle. Auxiliary latch deadlocks latch bolt.

NML 7159



Storeroom, Function J – ANSI Code F07
Latch bolt by handle inside and key outside. Outside handle always rigid. Auxiliary latch deadlocks latch bolt.

NML 7181



Deadlock
Function M – ANSI Code F18
Deadbolt by key outside. No operation inside.

Function N – ANSI Code F16
Deadbolt by key either side.

Function P – ANSI Code F17
Deadbolt by key outside and thumbturn inside.

Function R
Deadbolt by thumbturn inside. No operation outside.

Function S
Deadbolt by thumbturn inside and emergency release outside.

All details subject to modification

European Mortise Lock Series EML
Lock Body and Functions, Strikes

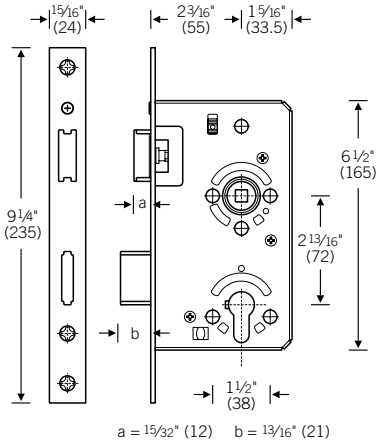


Series EML

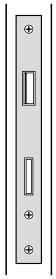
European Mortise Lock

Recommended for minimum 1 3/8" (35 mm) door thickness.

EML Mortise lock scalp is only available in Stainless Finish.



EML 0001



Store Door, Function A
Latch bolt by cylinder and handle either side unless deadbolt is in locked position. Deadbolt by key either side. Activated with key × key European profile cylinder.
Lever to thumbturn center-to-center: 2 13/16" (72 mm).

Dormitory, Function B
Latch bolt by cylinder, turnpiece or handle either side unless deadbolt is in locked position. Deadbolt by key outside and turnpiece inside. Activated with key × turnpiece European profile cylinder.
Lever to thumbturn center-to-center: 2 13/16" (72 mm).

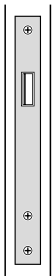
EML 0002



Privacy, Function E
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 1/16" (78 mm).

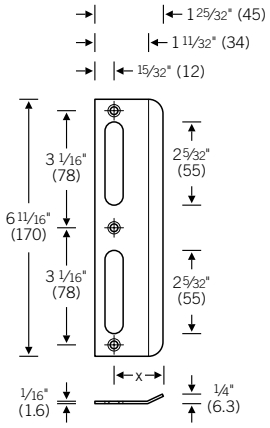
All details subject to modification

EML 0003



Passage, Function C
Latch bolt by handle either side.





EML 1001

EML Series Mortise Strike without dustbox

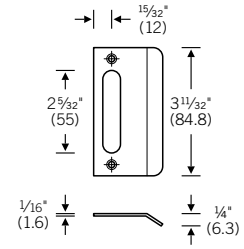
Entry/Privacy Functions

Standard = 1 5/16" (33 mm)

EML 1001 99

EML Series Extended Lip*
Mortise Strike without dustbox

* Identify lip to center (x dimension) specify mortise strike number



EML 1002

EML Series Mortise Strike without dustbox

Passage Function

All details subject to modification

Heavy Duty Lever Latch Series HLL and HLT
Latch Body and Function



Series HLL and HLT

Heavy Duty Lever Latch
Passage only

Latch
All HLL and HLT use the same Latch.

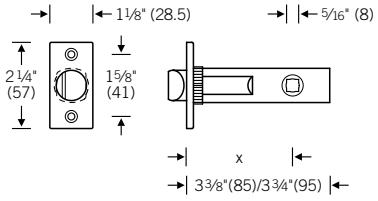
Specifications
Field reversible with adjustable bevel (⅛" over 2")

UL and C-UL Listing
File No. R 16617

Backsets
2 ⅜" (60 mm)
2 ¾" (70 mm)

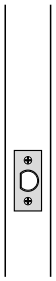
Strike
Universal curved lip T-Strike with dustbox.

Faceplate width 1 ⅛" (25.4 mm) for minimum 1¾" (44.5 mm) door thickness.



HLL 7010

Passage Latch



Latch bolt by handle either side.

All details subject to modification



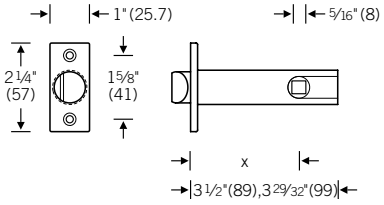
Series HLL and HLT

Heavy Duty Lever Latch
Passage and Privacy

Latch
All HLL and HLT use the same Latch.

Recommended for minimum 1 3⁄8" (35 mm) door thickness and maximum 2 1⁄4" (57 mm) door thickness.

1 1⁄8" (28.5 mm) Faceplate optional.



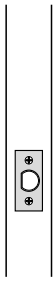
HLL 7230

Passage Latch

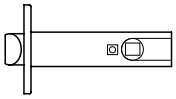
Latch bolt by handle either side.

HLL 7240

Privacy Latch

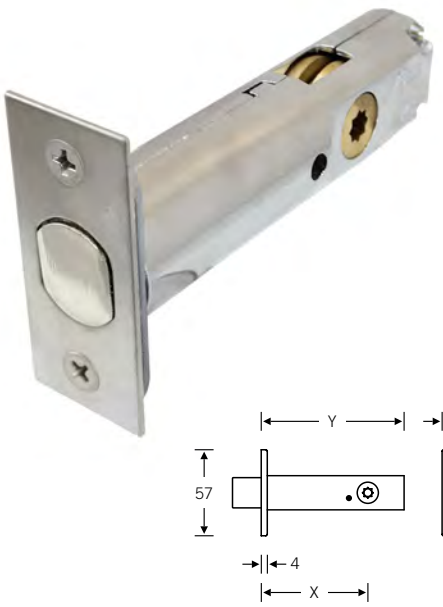


Latch bolt by handle either side.
Outside handle locked by pushbutton inside. Outside handle unlocked by retracting inside handle, emergency release tool or closing the door.
Supplied with 8 mm hub as shown.



All details subject to modification

Deadbolt Series HDD/HDT
Deadbolt Body and Function



HDD/HDT 7220

Heavy Duty Privacy Deadbolt

Specifications
Full bolt extension achieved with 135° thumbturn rotation

Deadbolt
All HDD and HDT use the same deadbolt.

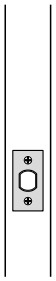
Backsets
2 3⁄8" (60 mm)
2 3⁄4" (70 mm)

Strike
Universal deadbolt strike with dustbox.

Faceplates
Faceplate width 1" (25.4 mm) standard
Faceplate width 1 1⁄8" (28.5 mm) optional

HDD/HDT 7220

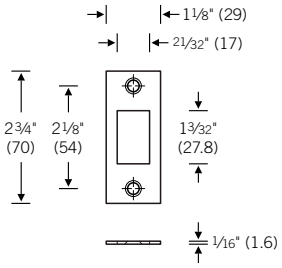
Privacy Deadbolt



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

Deadbolt Series HDD/HDT
Strikes





HDD 1001

Strike with dustbox for HDD 7120 (Heavy Duty Privacy Deadbolt)

All details subject to modification

Deadbolt Series KDD/KDT
Keyed Deadbolt Body and Function



KDD/KDT 7070
Keyed Deadbolt

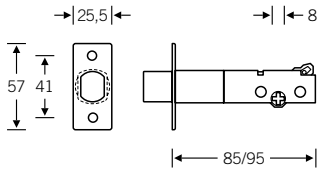
Deadbolt
All KDD and KDT use the same deadbolt.

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

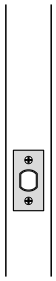
Strike
Universal deadbolt strike with dustbox.

Faceplate width 1" (25.4 mm).

Recommended for minimum
1 3/8" (35 mm) door thickness.



KDD/KDT 7070
Keyed Deadbolt

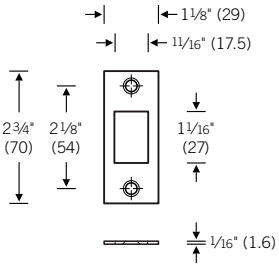


Deadbolt by key or thumbturn either side.

All details subject to modification

Deadbolt Series KDD/KDT
Strikes



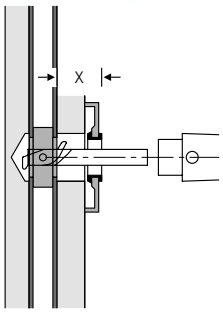


KDD 1001
Strike with dustbox for KDD 7070 (Keyed Deadbolt)

Spindles

05 0115





FSB one sided spindle for doors drilled on one side

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.

		Dimension X
05 0115 00810	5/16" × 2 3/8" (8 × 60 mm),	25/32" – 15/16" (20 – 24 mm)
05 0115 00812	5/16" × 2 9/16" (8 × 65 mm),	31/32" – 1 5/32" (25 – 29 mm)
05 0115 00814	5/16" × 2 3/4" (8 × 70 mm),	1 3/16" – 1 11/32" (30 – 34 mm)
05 0115 00816	5/16" × 2 15/16" (8 × 75 mm),	1 3/8" – 1 17/32" (35 – 39 mm)
05 0115 00818	5/16" × 3 5/32" (8 × 80 mm),	1 19/32" – 1 5/8" (40 – 44 mm)

05 0199





0199 00005

FSB ASL® half spindle

05 0199 00005 5700 5/16" × 2 3/8" (8 × 60 mm)

05 0599



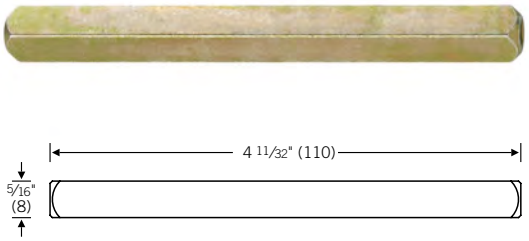
FSB ASL® set screw

05 0599 00073

All details subject to modification

Spindles

05 0553 - Kit



0553 10001

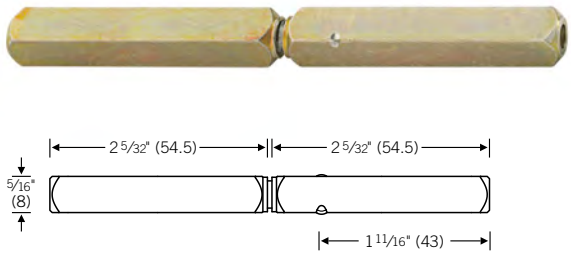
FSB ASL® straight spindle

Straight spindles available for DT (Door Thickness) up to 3 ¾" (95 mm) on request.

05 0553 10001	5/16" × 4 11/32"	(8 × 110 mm)	1 3/8"-2" DT
05 0553 10002	5/16" × 5 1/8"	(8 × 130 mm)	2 1/8"-2 ¾" DT
05 0553 10003	5/16" × 5 29/32"	(8 × 150 mm)	3"-3 ¾" DT

Kits include set screws, through bolts, through bolt caps and spindle.

05 0553 - Kit



05 0553 20001

FSB ASL® swivel spindle

Swivel spindles available for DT (Door Thickness) up to 3¾" (95 mm) on request.

05 0553 20001	5/16" × 4 11/32"	(8 × 110 mm)	1 3/8"-2" DT
05 0553 20002	5/16" × 5 1/8"	(8 × 130 mm)	2 1/8"-2 ¾" DT
05 0553 20003	5/16" × 5 29/32"	(8 × 150 mm)	3"-3 ¾" DT

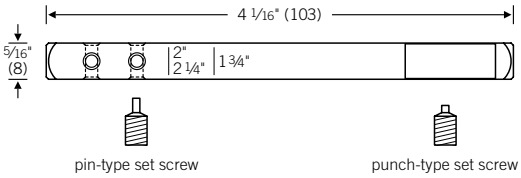
Kits include set screws, through bolts, through bolt caps and spindle.

All details subject to modification

Spindles

05 0156





0156 00827

FSB original straight spindle

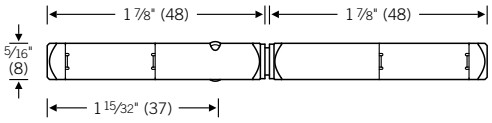
Straight spindles available for DT (Door Thickness) up to 3 3/4" (95 mm) on request.

05 0156 00822	5/16" × 3 17/32"	(8 × 90 mm)
05 0156 00827	5/16" × 4 1/16"	(8 × 103 mm)
05 0156 00830	5/16" × 4 11/32"	(8 × 110 mm)
05 0156 00833	5/16" × 4 19/32"	(8 × 117 mm)

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.

05 0157





05 0157 02824

FSB original swivel spindle

Swivel spindles available for DT (Door Thickness) up to 3 1/4" (82 mm) on request.

05 0157 02824	(8 × 96 mm)	1 3/8"–1 3/4" DT
05 0157 02830	(8 × 110 mm)	2"–2 1/2" DT
05 0157 02838	(8 × 130 mm)	2 3/4"–3 1/4" DT

05 0103



FSB original half spindle

05 0103 00808	5/16" × 2 3/16"	(8 × 55 mm)
05 0103 00812	5/16" × 2 9/16"	(8 × 65 mm)
05 0103 00816	5/16" × 2 15/16"	(8 × 75 mm)

05 0402



Set screw with piercing punch

05 0402 00601	M6	1/4" × 5/16"	(8,0 mm)
05 0402 00602	M6	1/4" × 11/32"	(9,0 mm)
05 0402 00603	M6	1/4" × 13/32"	(10.5 mm)
05 0402 00604	M6	1/4" × 7/16"	(11.5 mm)

All details subject to modification

Fasteners

05 0302

Galvanized Steel Lens Head Tapping Screw



05 0302 04240	5⁄32" × 1 19⁄32"	(4.2 × 40 mm)
05 0302 04245	5⁄32" × 1 25⁄32"	(4.2 × 45 mm)
05 0302 04250	5⁄32" × 1 31⁄32"	(4.2 × 50 mm)
05 0302 04255	5⁄32" × 2 3⁄16"	(4.2 × 55 mm)
05 0302 04260	5⁄32" × 2 3⁄8"	(4.2 × 60 mm)
05 0302 04265	5⁄32" × 2 9⁄16"	(4.2 × 65 mm)
05 0302 04270	5⁄32" × 2 3⁄4"	(4.2 × 70 mm)
05 0302 04280	5⁄32" × 3 5⁄32"	(4.2 × 80 mm)

05 0303

Cross recessed raised countersunk oval head bolt



05 0303 00515	M5	3⁄16" × 19⁄32"	(15 mm)
05 0303 00535	M5	3⁄16" × 1 3⁄8"	(35 mm)

05 0308

Cross countersunk head screws



			For door thickness
05 0308 00540	M5	3⁄16" × 1 19⁄32"	1 3⁄8" – 2"
05 0308 00555	M5	3⁄16" × 2 3⁄16"	1 27⁄32" – 2 7⁄32"
05 0308 00560	M5	3⁄16" × 2 3⁄8"	2 1⁄8" – 2 3⁄4"
05 0308 00565	M5	3⁄16" × 2 9⁄16"	2 1⁄4" – 2 19⁄32"
05 0308 00575	M5	3⁄16" × 2 15⁄16"	2 5⁄8" – 3"
05 0308 00585	M5	3⁄16" × 3 11⁄32"	3 1⁄32" – 3 3⁄4"
05 0308 00595	M5	3⁄16" × 3 3⁄4"	3 7⁄16" – 3 25⁄32"
05 0308 00501	M5	3⁄16" × 4 1⁄8"	3 13⁄16" – 4 5⁄32"

05 0309

Sex bolts with M4 5⁄32" threaded sleeve nut 0309



	Bolt length	Adjustable between	For door thickness
05 0309 00435	1 3⁄8" (35 mm)	1 15⁄32" – 1 25⁄32"	31⁄32" – 1 5⁄16"
05 0309 00440	1 19⁄32" (40 mm)	1 21⁄32" – 1 31⁄32"	1 3⁄16" – 1 1⁄2"
05 0309 00445	1 25⁄32" (45 mm)	1 27⁄32" – 2 3⁄16"	1 3⁄8" – 1 11⁄16"
05 0309 00450	1 31⁄32" (50 mm)	2 1⁄16" – 2 3⁄8"	1 19⁄32" – 1 7⁄8"
05 0309 00455	2 3⁄16" (55 mm)	2 1⁄4" – 2 9⁄16"	1 25⁄32" – 2 3⁄32"
05 0309 00460	2 3⁄8" (60 mm)	2 7⁄16" – 2 3⁄4"	1 31⁄32" – 2 9⁄32"

05 0315

Cross recessed metal screw



03 0315 02916	3⁄8" × 5⁄8"	(2.9 × 16 mm)
03 0315 03916	5⁄32" × 5⁄8"	(3.9 × 16 mm)
03 0315 04219	5⁄32" × 3⁄4"	(4.2 × 19 mm)

All details subject to modification

Fasteners

05 0316





Threaded Screw for Wood -
for 61 6254, 61 6268 Pulls

M8 Version: 05 0316 00400
Total Length 40 mm
Length of M8 thread 15 mm

05 0319



Dome Nut - for 61 6254, 61 6268 Pulls

Aluminum
05 0319 00800 M8

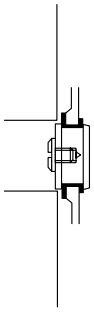
Stainless Steel
05 0319 00800 M8

All details subject to modification

Parts

03 0441





Blind rose

to blank out the lever handle hole on escutcheon plates

03 0450

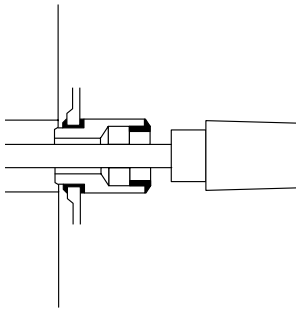


Threaded Inserts

05 0450 09147 5700	23⁄32" (18 mm)
05 0450 09167 5700	1 1⁄32" (26 mm)

03 0440





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

Aluminum

03 0440 00020	25⁄32"	(20 mm)
03 0440 00025	31⁄32"	(25 mm)
03 0440 00030	1 3⁄16"	(30 mm)

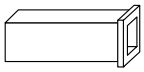
Stainless Steel

03 0440 00020	25⁄32"	(20 mm)

All details subject to modification

Adaptors

05 0425



Adaptor sleeve

for lever handles spindles/lock follower

05 0425 00809 5⁄16" on 11⁄32" (8 on 9.0 mm)
05 0425 00810 5⁄16" on 13⁄32" (8 on 10.0 mm)
05 0425 00885 5⁄16" on 11⁄32" (8 on 8.5 mm)
05 0425 00910 11⁄32" on 13⁄32" (9 on 10.0 mm)

05 0526

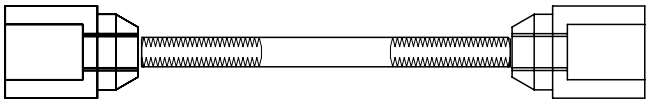


Threaded rivets for metal doors

M5 3⁄16" × 31⁄32" (25 mm)

To be used with narrow style rose 1758.

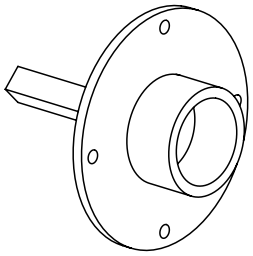
0423 9000

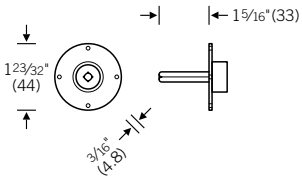


Alignment tool

For proper installation of FSB roses.

0423 9001





Alignment tool

To be used with all FSB Thumbturns and Turn and Release Sets which have a 3⁄16" (5 mm) diamond spindle.

Proper alignment of the FSB thumbturn subrose over the hub of the mortise lock or tubular latch is critical. Misalignment of the subrose can result in deadbolt malfunction once the thumbturn is snapped in place. To avoid this issue from occurring, please use the thumbturn alignment tool for the appropriate FSB lockset or deadbolt set to mark the locations of the screws before fastening.

All details subject to modification

Product Number Index

Product Number	Page/s
03 0418	107, 143, 198
03 0440	440
03 0441	440
03 0450	107, 143, 205, 206, 440
05 0103	437
05 0115	435
05 0156	437
05 0199	435
05 0302	438
05 0303	438
05 0308	438
05 0309	438
05 0315	438
05 0316	439
05 0319	439
05 0402	437
05 0423	177, 178, 179, 180
05 0425	441
05 0526	441
05 0553	436
05 0580	349, 350, 351, 354
05 0582	348
05 0583	352
05 0587	353
05 0599	435
10 1001	23
10 1002	24
10 1003	25
10 1004	26
10 1005	27
10 1015	28
10 1016	29
10 1020	30
10 1021	31
10 1023	32
10 1025	33
10 1027	34
10 1028	35
10 1031	36
10 1034	37
10 1035	38
10 1045	39
10 1051	40
10 1053	41
10 1057	42
10 1058	43
10 1070	44
10 1074	45
10 1075	46
10 1076	47
10 1077	48
10 1078	49
10 1080	50
10 1088	51
10 1093	52
10 1102	53
10 1106	54
10 1107	55
10 1108	56
10 1119	57
10 1134	58
10 1144	59
10 1146	60
10 1147	61
10 1160	62
10 1163	63
10 1164	64
10 1176	65
10 1177	66
10 1178	67
10 1183	68
10 1185	69
10 1241	70
10 1250	71
10 1251	72
10 1252	73
10 1253	74
10 1257	75
10 1259	76
12 1410	264
13 4220	283, 284
13 4223	285, 286
13 4224	287, 288
13 4230	289
13 4256	250
14 1410	111, 112, 147, 148, 164, 182, 263, 264
14 1550	266
17 1703	108, 144, 181
17 1704	108, 144
17 1705	108, 144, 181
17 1712	109, 110, 145, 146, 195, 196
17 1731	104, 140, 160, 181
17 1735	104, 140, 160, 161, 162, 165
17 1736	113, 163, 182
17 1737	113, 163, 197
17 1744	105, 106, 141, 142, 193, 194
17 1757	160
17 1758	107, 143, 160, 182
17 1798	104, 140, 181
23 0802	355
23 0803	355
23 0804	356
23 0828	357
23 0829	357
23 0844	358
23 0873	358
23 0880	359
34 1001	413
34 1003	413
34 1004	273, 413
34 1005	413
34 1015	413
34 1016	273
34 1023	413
34 1025	413
34 1035	413
34 1070	413
34 1075	413
34 1076	274, 414
34 1077	414
34 1078	414
34 1102	274, 414
34 1106	414
34 1107	414
34 1108	414
34 1144	414
34 1146	275, 414
34 1147	414
34 1160	415
34 1163	415
34 1176	415
34 1183	415
34 1241	415
34 3403	416
34 3407	416
34 3784	416
36 3632	380
36 3646	379
36 3654	380
36 3656	381
36 3657	381
36 3679	381
36 3689	380
36 3691	380
36 4001	382
36 9865	382
38 3801	383
38 3804	383
38 3808	384
38 3810	387
38 3816	375
38 3817	375
38 3826	385, 386
38 3829	386
38 3845	387
38 3863	387
38 3878	376
38 3880	376, 377
38 3881	377
38 3884	378
38 3888	378
38 3895	379
38 4005	388
42 4203	252
42 4204	236, 252
42 4210	235, 249
42 4211	251
42 4212	251
42 4215	276
42 4250	245
42 4251	246
42 4252	247
42 4253	248

Product Number Index

Product Number	Page/s
42 4254	247
42 4255	237, 238, 239, 249
42 4299	253
51 5325	344
61 6108	339
61 6112	339
61 6184	340
61 6186	342
61 6187	297
61 6188	297
61 6190	298
61 6191	342
61 6192	299
61 6193	299
61 6254	341
61 6268	341
66 6506	301
66 6507	302
66 6514	300
66 6519	303
66 6520	304
66 6526	307
66 6533	309
66 6534	309
66 6535	310
66 6536	310
66 6537	311
66 6538	312
66 6540	313
66 6541	314
66 6542	315
66 6546	316
66 6548	305
66 6602	319
66 6610	317
66 6611	317
66 6612	318
66 6613	318
66 6615	321
66 6616	322
66 6628	343
66 6629	344
66 6630	323
66 6635	327
66 6642	325
66 6643	325
66 6650	328
66 6652	329
66 6653	330
66 6655	331
66 6662	332
66 6669	320
66 6674	333
66 6675	334
66 6679	335
66 6681	323
66 6683	336
82 8201	397
82 8241	407
82 8243	407
82 8270	393, 394, 395, 396, 399, 400, 401, 403, 405, 408
82 8420	398
82 8460	393, 396, 400, 402, 404, 406
88 8806	114, 149
88 8812	166
0423 9000	441
0423 9001	441
9101 0000	365
9101 0001	365
9101 0002	365
9101 0003	365
9101 0004	366
9101 0005	366
9101 0006	366
9101 0007	366
9101 0050	367
9101 0051	367
9101 0052	368
9101 0053	368
EML 0001	429
EML 0002	429
EML 0003	430
EML 1001	167, 430
EPP 7000	255
HDD 1001	433
HDD/HDT 7220	433
HLL 1001	183
HLL 1002	183
HLL 1003	183
HLL 7010	431
HLL 7230	432
HLL 7240	432
KDD 1001	434
KDD/KDT 7070	434
NML 1001	150
NML 7100	426
NML 7122	426
NML 7124	427
NML 7125	427
NML 7142	427
NML 7145	427
NML 7148	428
NML 7156	428
NML 7159	428
NML 7181	428
SML 1001	115
SML 7100	421
SML 7122	421
SML 7124	422
SML 7125	422
SML 7134	422
SML 7142	422
SML 7145	423
SML 7148	423
SML 7156	423
SML 7158	423
SML 7158 EU/E	425
SML 7158 VEU/VEL	424
SML 7159	423
SML 7159 EU/EL	425
SML 7159 JEU/JEL	424
SML 7167	424
SML 7181	424
SPP 7000	254
SW 3	100

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