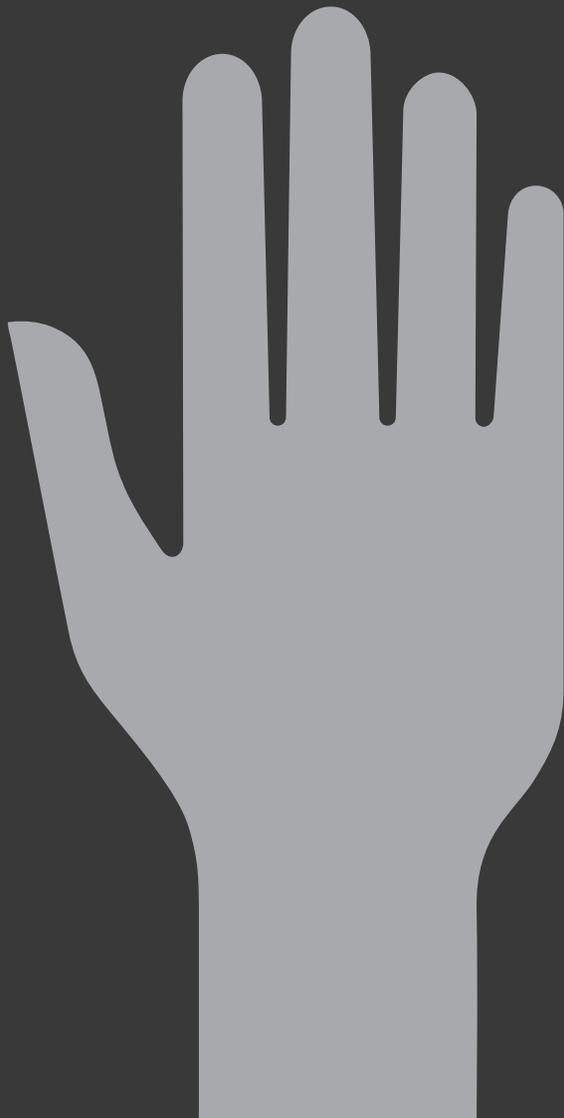


FSB North America Catalog

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	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.



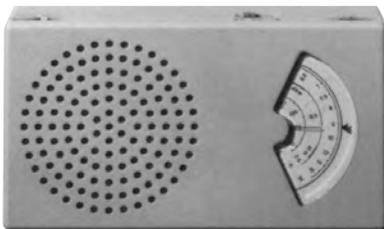
Getting a grip on architecture: It's in your hands.

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.

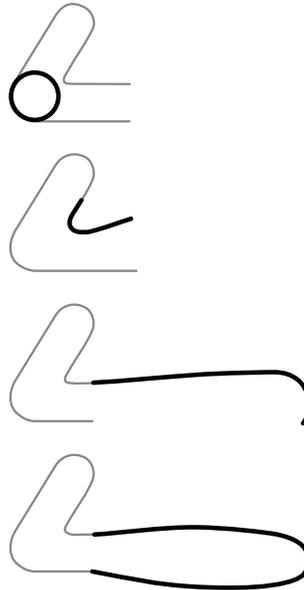


At the same time as steadily growing our design excellence, we have never ceased refining our manufacturing processes either: an ongoing policy of modernizing and optimizing production technologies and routines has colluded with our predilection for "feisty" materials like fine-grade steel, aluminium, 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 earth's 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.

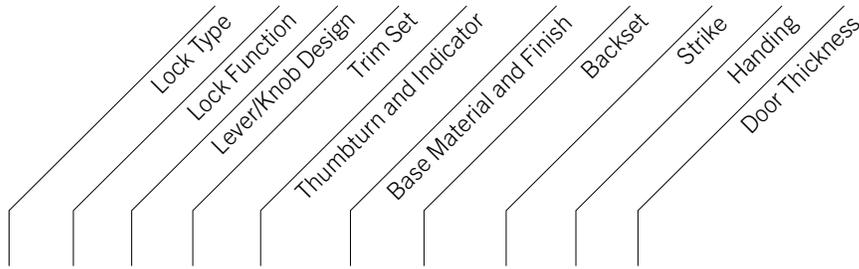
Product	Description	Term
SML/SMT, NML/NMT Mechanical	Mortise Locks	10 years
EML Mechanical	Mortise Locks	5 years
HLL/HLT, HDD/HDT, KDD/KDT Mechanical	Tubular Latches and Dead Bolts	3 years
SDL, SPL, SLL/SLT Mechanical	Sliding Door Locks	5 years
ESL, EPL, ESN Mechanical	European Sliding Door Locks	3 years
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.

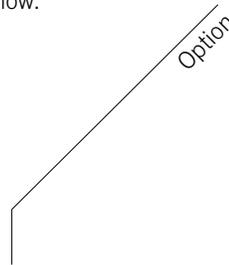
Example: Standard Mortise Lock –SML



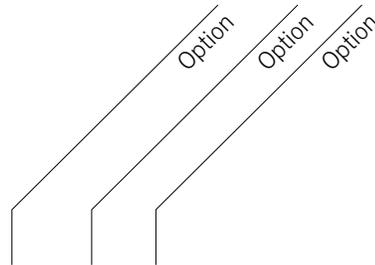
SML-E-1147-RA-SI-6204-234-M1-RH-134

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)

Materials & Finishes Overview

Premium

■ Stainless Steel



■ Bronze



Elements

■ Aluminum Anodized



□ Aluminum Powder Coated



Transitions

■ Plated Brass Finishes



■ Natural Brass Finishes



Door Pulls and Accessories

■ Stainless Steel

■ Bronze

■ Aluminum

As seen on previous page

■ Brass



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 is 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



38 3808 
Page 384



38 3810 
Page 387



38 3863 
Page 387



38 4005 
Page 388

2a

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

Levers

<p>1001  Page 23</p> 	<p>1002  Page 24</p> 	<p>1003  Page 25</p> 	<p>1004  Page 26</p> 	<p>1005  Page 27</p> 	<p>1015  Page 28</p> 
<p>1016  Page 29</p> 	<p>1020  Page 30</p> 	<p>1021  Page 31</p> 	<p>1023  Page 32</p> 	<p>1025  Page 33</p> 	<p>1027  Page 34</p> 
<p>1028  Page 35</p> 	<p>1031  Page 36</p> 	<p>1034  Page 37</p> 	<p>1035  Page 38</p> 	<p>1045  Page 39</p> 	<p>1051  Page 40</p> 
<p>1053  Page 41</p> 	<p>1057  Page 42</p> 	<p>1058  Page 43</p> 	<p>1070  Page 44</p> 	<p>1074  Page 45</p> 	<p>1075  Page 46</p> 
<p>1076  Page 47</p> 	<p>1077  Page 48</p> 	<p>1078  Page 49</p> 	<p>1080  Page 50</p> 	<p>1088  Page 51</p> 	<p>1093  Page 52</p> 

Materials and Finishes	Premium		Elements	Transitions	
	<ul style="list-style-type: none">  Stainless Steel  6204 (630)  6205 (629) 	<ul style="list-style-type: none">  Bronze  7305 (611)  7615 (615)  7625 (613) 	<ul style="list-style-type: none">  Aluminum  0105 (628)  0205  0410  0510  0710 (710)  0810 (711)  Powder Coated 	<ul style="list-style-type: none">  Brass 	<ul style="list-style-type: none"> Plated Brass  014 (618)  015 (619)  026 (625)  03P (605)

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

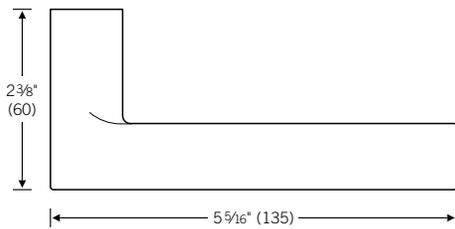


	Premium	Elements	Transitions
Materials and Finishes	 Stainless Steel  Bronze  6204 (630)  6205 (629)  7305 (611)  7615 (615)  7625 (613)	 Aluminum  0105 (628)  0205  0410  0510  0710 (710)  0810 (711)  Powder Coated	 Brass Plated Brass  014 (618)  015 (619)  026 (625)  03P (605) Natural Brass  003 (605)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

Materials
and
Finishes

Premium

Elements

■ Aluminum

■ 0105 (628)

■ 0205

■ 0410

■ 0510

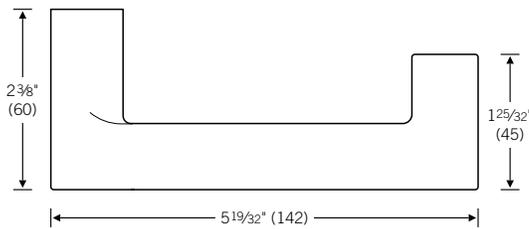
■ 0710 (710)

■ 0810 (711)

□ Powder Coated

Transitions

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.



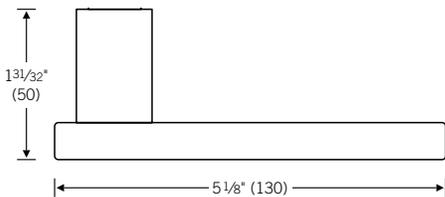
Design: Peter Bastian

Materials and Finishes	Premium	Elements	Transitions
		<ul style="list-style-type: none"> ■ Aluminum ■ 0105 (628) ■ 0205 ■ 0410 ■ 0510 ■ 0710 (710) ■ 0810 (711) □ Powder Coated 	

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.



Materials and Finishes

Premium

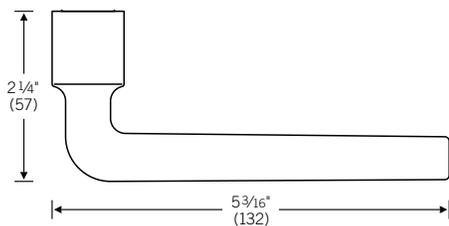
- Stainless Steel
- 6204 (630)
- 6205 (629)

Elements

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

Transitions

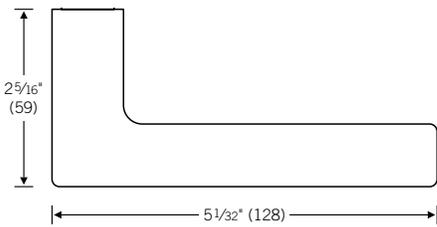
David Chipperfield’s design for the FSB 1004 bears the hallmark of the pioneers of modernism. It is based on a clear formal concept which meets all of the functional requirements while giving expression to his formal idea in both public and private spheres.



Design: David Chipperfield

	Premium	Elements	Transitions
Materials and Finishes	<ul style="list-style-type: none"> ■ Stainless Steel ■ Bronze ■ 6204 (630) ■ 7305 (611) ■ 6205 (629) ■ 7615 (615) ■ 7625 (613) 	<ul style="list-style-type: none"> ■ Aluminum ■ 0105 (628) ■ 0205 ■ 0410 ■ 0510 ■ 0710 (710) ■ 0810 (711) <input type="checkbox"/> Powder Coated 	

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.



Materials and Finishes

Premium

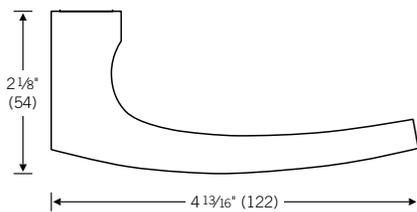
- Stainless Steel
- 6204 (630)
- 6205 (629)

Elements

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

Transitions

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.

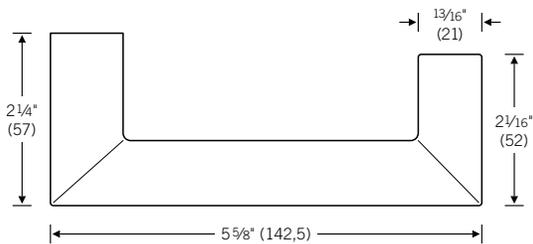


	Premium	Elements	Transitions	
Materials and Finishes	<ul style="list-style-type: none"> ■ Stainless Steel ■ 6204 (630) ■ 6205 (629) 	<ul style="list-style-type: none"> ■ Bronze ■ 7305 (611) ■ 7615 (615) ■ 7625 (613) 	<ul style="list-style-type: none"> ■ Aluminum ■ 0105 (628) ■ 0205 ■ 0410 ■ 0510 ■ 0710 (710) ■ 0810 (711) <input type="checkbox"/> 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.

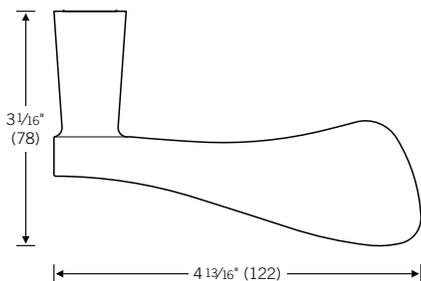


66 6514, refer to Pulls



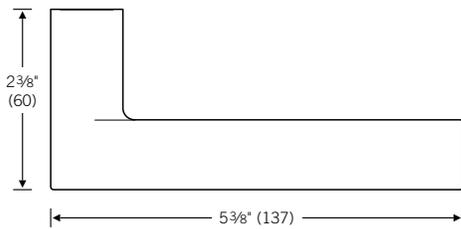
	Premium	Elements	Transitions
Materials and Finishes	<ul style="list-style-type: none"> Stainless Steel 6204 (630) 6205 (629) 	<ul style="list-style-type: none"> Bronze 7305 (611) 7615 (615) 7625 (613) 	<ul style="list-style-type: none"> Aluminum 0105 (628) 0205 0410 0510 0710 (710) 0810 (711) Powder Coated

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.



Materials and Finishes	Premium	<ul style="list-style-type: none"> ■ Bronze ■ 7305 (611) ■ 7615 (615) ■ 7625 (613) 	Elements <ul style="list-style-type: none"> ■ Aluminum ■ 0105 (628) ■ 0205 ■ 0410 ■ 0510 ■ 0710 (710) ■ 0810 (711) □ Powder Coated

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.



Materials and Finishes

Premium

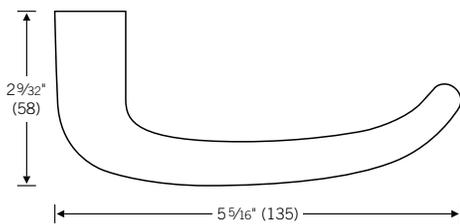
- Stainless Steel
- 6204 (630)
- 6205 (629)

Elements

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

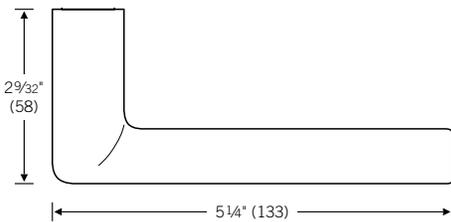
Transitions

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	<ul style="list-style-type: none"> ■ Stainless Steel ■ 6204 (630) ■ 6205 (629) 	<ul style="list-style-type: none"> ■ Bronze ■ 7305 (611) ■ 7615 (615) ■ 7625 (613) 	<ul style="list-style-type: none"> ■ Aluminum ■ 0105 (628) ■ 0205 ■ 0410 ■ 0510 ■ 0710 (710) ■ 0810 (711) <input type="checkbox"/> Powder Coated 	

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.



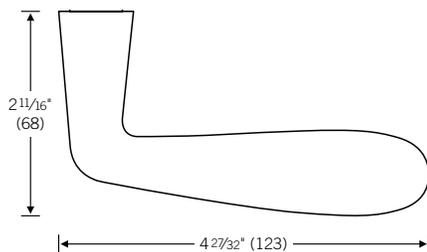
66 6610, refer to Pulls



Design: Hartmut Weise

	Premium	Elements	Transitions
Materials and Finishes	<ul style="list-style-type: none"> ■ Stainless Steel ■ 6204 (630) ■ 6205 (629) 	<ul style="list-style-type: none"> ■ Aluminum ■ 0105 (628) ■ 0205 ■ 0410 ■ 0510 ■ 0710 (710) ■ 0810 (711) □ Powder Coated 	

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.

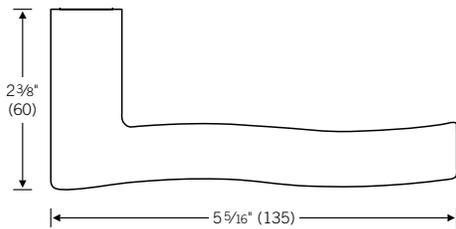


	Premium	Elements	Transitions
Materials and Finishes	<ul style="list-style-type: none"> ■ Stainless Steel ■ 6204 (630) ■ 6205 (629) 	<ul style="list-style-type: none"> ■ Aluminum ■ 0105 (628) ■ 0205 ■ 0410 ■ 0510 ■ 0710 (710) ■ 0810 (711) <input type="checkbox"/> Powder Coated 	

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



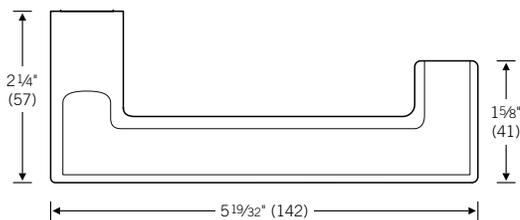
Design: Hartmut Weise

Materials and Finishes	Premium	Elements	Transitions
	<ul style="list-style-type: none"> ■ Stainless Steel ■ 6204 (630) ■ 6205 (629) 	<ul style="list-style-type: none"> ■ Aluminum ■ 0105 (628) ■ 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



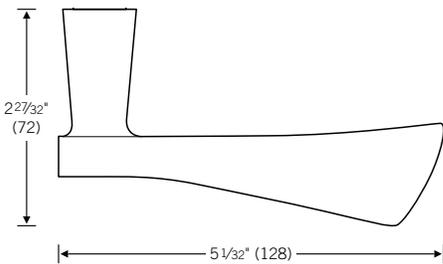
Design: Heike Falkenberg

	Premium	Elements	Transitions
Materials and Finishes	<ul style="list-style-type: none"> ■ Stainless Steel ■ 6204 (630) ■ 6205 (629) 	<ul style="list-style-type: none"> ■ 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.



Materials and Finishes

Premium

Elements

■ Aluminum

■ 0105 (628)

■ 0205

■ 0410

■ 0510

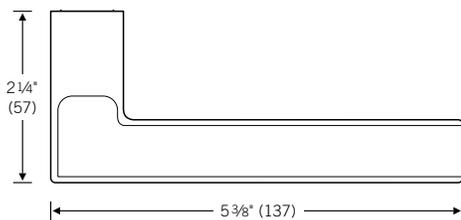
■ 0710 (710)

■ 0810 (711)

□ Powder Coated

Transitions

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.



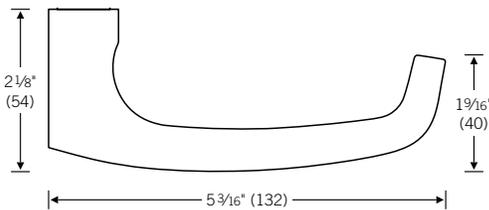
66 6540, refer to Pulls



Design: Heike Falkenberg

Materials and Finishes	Premium	Elements	Transitions	
	<ul style="list-style-type: none"> ■ Stainless Steel ■ 6204 (630) ■ 6205 (629) 	<ul style="list-style-type: none"> ■ Aluminum ■ 0105 (628) ■ 0205 ■ 0410 ■ 0510 ■ 0710 (710) ■ 0810 (711) <input type="checkbox"/> Powder Coated 	<ul style="list-style-type: none"> ■ Brass Plated Brass ■ 014 (618) ■ 015 (619) ■ 026 (625) ■ 03P (605) 	<ul style="list-style-type: none"> Natural Brass ■ 003 (605) ■ 004 (606) ■ 10B (607)

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.



Materials and Finishes

Premium

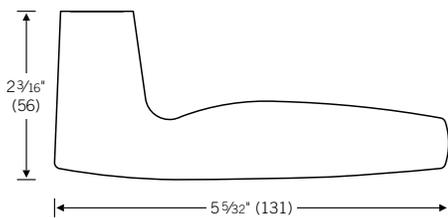
- Stainless Steel
- Bronze
- 6204 (630)
- 6205 (629)
- 7305 (611)
- 7615 (615)
- 7625 (613)

Elements

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

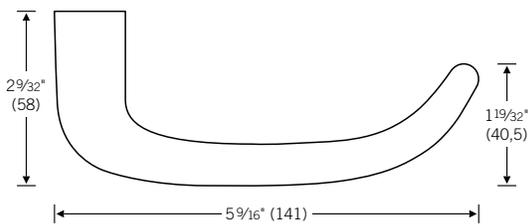
Transitions

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.



<p>Materials and Finishes</p>	<p>Premium</p> <p>Elements</p> <ul style="list-style-type: none"> ■ Aluminum ■ 0105 (628) ■ 0205 ■ 0410 ■ 0510 ■ 0710 (710) ■ 0810 (711) □ Powder Coated 	<p>Transitions</p>
-------------------------------	--	---------------------------

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.



Materials and Finishes

Premium

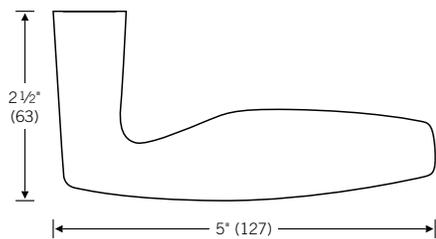
- Stainless Steel ■ Bronze
- 6204 (630) ■ 7305 (611)
- 6205 (629) ■ 7615 (615)
- 7625 (613)

Elements

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

Transitions

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

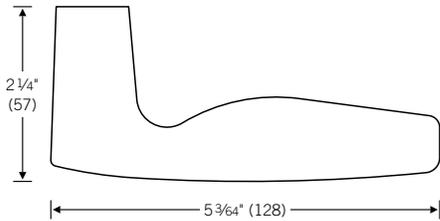
	Premium	Elements	Transitions
Materials and Finishes	<ul style="list-style-type: none"> ■ Stainless Steel ■ Bronze 	<ul style="list-style-type: none"> ■ Aluminum 	
	<ul style="list-style-type: none"> ■ 6204 (630) ■ 6205 (629) ■ 7305 (611) ■ 7615 (615) ■ 7625 (613) 	<ul style="list-style-type: none"> ■ 0105 (628) ■ 0205 ■ 0410 ■ 0510 ■ 0710 (710) ■ 0810 (711) <input type="checkbox"/> 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.

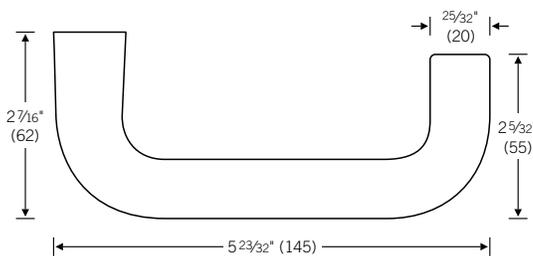
FSB 1058 is one of four models designed by Johannes Potente which have been added to MoMA's permanent collection.



Design: Johannes Potente

Materials and Finishes	Premium		Elements	Transitions	
	<ul style="list-style-type: none"> ■ Stainless Steel ■ 6204 (630) ■ 6205 (629) 	<ul style="list-style-type: none"> ■ Bronze ■ 7305 (611) ■ 7615 (615) ■ 7625 (613) 		<ul style="list-style-type: none"> ■ Aluminum ■ 0105 (628) ■ 0205 ■ 0410 ■ 0510 ■ 0710 (710) ■ 0810 (711) □ Powder Coated 	<ul style="list-style-type: none"> ■ Brass ■ Plated Brass ■ 014 (618) ■ 015 (619) ■ 026 (625) ■ 03P (605)

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.



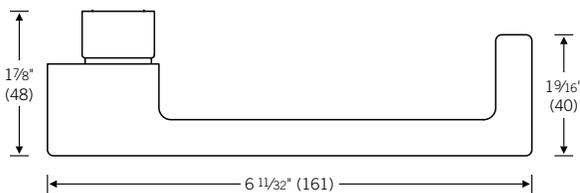
66 6602, refer to Pulls



Materials and Finishes	Premium	Elements	Transitions
	<ul style="list-style-type: none"> ■ Stainless Steel ■ 6204 (630) ■ 6205 (629) 	<ul style="list-style-type: none"> ■ Aluminum ■ 0105 (628) ■ 0205 ■ 0410 ■ 0510 ■ 0710 (710) ■ 0810 (711) <input type="checkbox"/> Powder Coated 	

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.

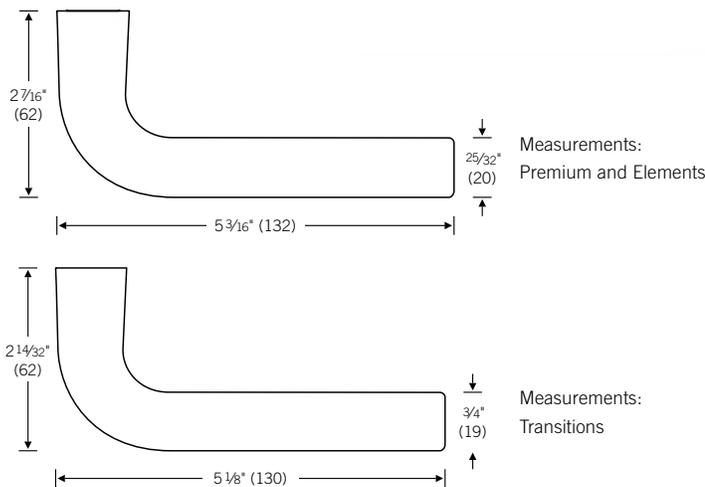
The designer's model 1074 sports a similarly radical return to the door: he simply takes a third of the grip section and attaches it to same at right angles.



Design: Hadi Teherani

Materials and Finishes	Premium	Elements	Transitions
	<ul style="list-style-type: none"> ■ Stainless Steel ■ 6204 (630) ■ 6205 (629) 	<ul style="list-style-type: none"> ■ Aluminum ■ 0105 (628) ■ 0205 ■ 0410 ■ 0510 ■ 0710 (710) ■ 0810 (711) □ Powder Coated 	

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.



66 6602, refer to Pulls

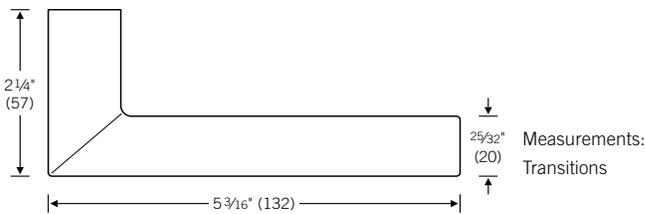


	Premium	Elements	Transitions
Materials and Finishes	<ul style="list-style-type: none"> Stainless Steel 6204 (630) 6205 (629) 	<ul style="list-style-type: none"> Aluminum 0105 (628) 0205 0410 0510 0710 (710) 0810 (711) Powder Coated 	<ul style="list-style-type: none"> Brass Plated Brass 014 (618) 015 (619) 026 (625) 03P (605) Natural Brass 003 (605) 004 (606) 10B (607)

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.

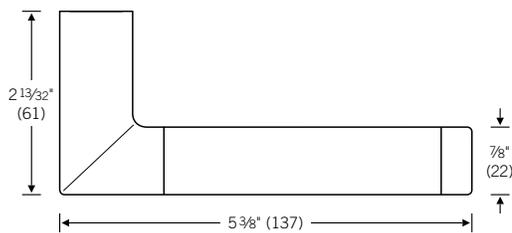


66 6669, refer to Pulls



Materials and Finishes	Premium		Elements		Transitions	
	<ul style="list-style-type: none"> ■ Stainless Steel ■ 6204 (630) ■ 6205 (629) 	<ul style="list-style-type: none"> ■ Bronze ■ 7305 (611) ■ 7615 (615) ■ 7625 (613) 	<ul style="list-style-type: none"> ■ Aluminum ■ 0105 (628) ■ 0205 ■ 0410 ■ 0510 ■ 0710 (710) ■ 0810 (711) □ Powder Coated 	<ul style="list-style-type: none"> ■ Brass ■ Plated Brass ■ 014 (618) ■ 015 (619) ■ 026 (625) ■ 03P (605) 	<ul style="list-style-type: none"> ■ Natural Brass ■ 003 (605) ■ 004 (606) ■ 10B (607) 	

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

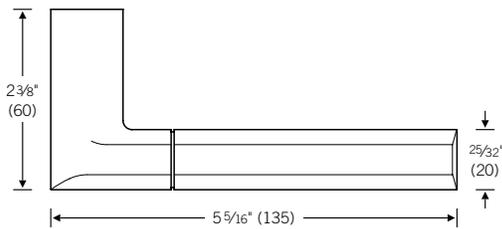


Materials and Finishes	Premium	Elements	Transitions
			<ul style="list-style-type: none"> ■ Aluminum with Stainless Steel Grip ■ 0105 (628) ■ 0205 ■ 0410 ■ 0510 ■ 0710 (710) ■ 0810 (711)

Lever Handle 1078



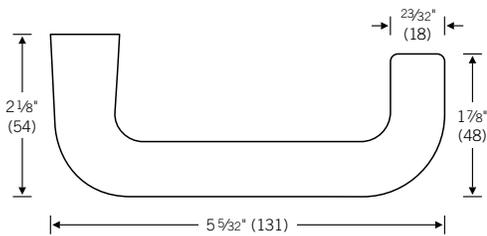
Christoph Ingenhoven was inspired by the quintessential “classic”, FSB 1076, which he reinterpreted both in the mitring and the grip. The particular attraction of the FSB 1078 is the transition from the round shank to the flat surfaces on the grip. The associated return version complements the open model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



Design: Christoph Ingenhoven

	Premium	Elements	Transitions
Materials and Finishes	<ul style="list-style-type: none"> ■ Stainless Steel ■ 6204 (630) ■ 6205 (629) 	<ul style="list-style-type: none"> ■ Aluminum ■ 0105 (628) ■ 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

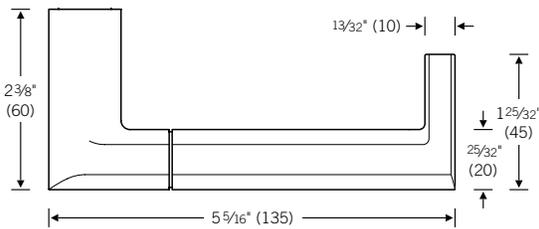


	Premium	Elements	Transitions
Materials and Finishes	<ul style="list-style-type: none"> ■ Stainless Steel ■ 6204 (630) ■ 6205 (629) 	<ul style="list-style-type: none"> ■ Aluminum ■ 0105 (628) ■ 0205 ■ 0410 ■ 0510 ■ 0710 (710) ■ 0810 (711) <input type="checkbox"/> Powder Coated 	

Lever Handle 1088



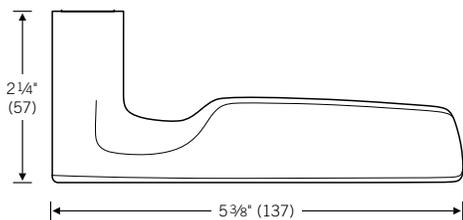
Door handle model 1078 by Christoph Ingenhoven is now complemented by return version 1088, which features a closed design.



Design: Christoph Ingenhoven

	Premium	Elements	Transitions
Materials and Finishes	<ul style="list-style-type: none"> Stainless Steel 6204 (630) 6205 (629) 	<ul style="list-style-type: none"> Aluminum 0105 (628) 0205 0410 0510 0710 (710) 0810 (711) Powder Coated 	

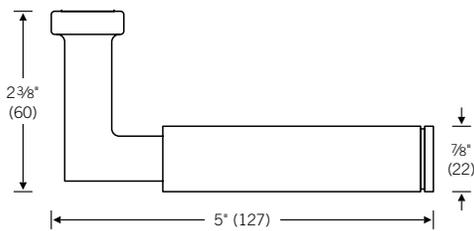
Helmut Jahn and Yorgo Lykouria approached handle design without any preconceptions whatsoever. They freed their minds from the constraints of industrial production processes and sought a shape that combines geometrical elements with ergonomic needs. The result is a genuine innovation for a hand-held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



Design: Jahn/Lykouria

	Premium	Elements	Transitions
Materials and Finishes	<ul style="list-style-type: none"> ■ Stainless Steel ■ 6204 (630) ■ 6205 (629) 	<ul style="list-style-type: none"> ■ Aluminum ■ 0105 (628) ■ 0205 ■ 0410 ■ 0510 ■ 0710 (710) ■ 0810 (711) Powder Coated 	

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



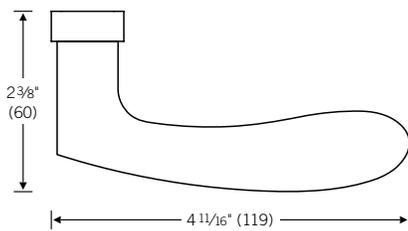
Design: Alessandro Mendini

	Premium	Elements	Transitions
Materials and Finishes	<ul style="list-style-type: none"> ■ Stainless Steel ■ 6204 (630) ■ 6205 (629) 	<ul style="list-style-type: none"> ■ Bronze ■ 7615 (615) ■ 7625 (613) 	<ul style="list-style-type: none"> ■ Aluminum ■ 0105 (628)

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.



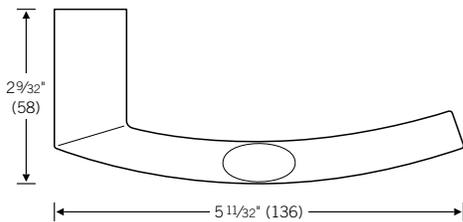
Design: Christoph Mäckler

	Premium	Elements	Transitions	
Materials and Finishes	<ul style="list-style-type: none"> ■ Stainless Steel ■ 6204 (630) ■ 6205 (629) 	<ul style="list-style-type: none"> ■ Bronze ■ 7305 (611) ■ 7615 (615) ■ 7625 (613) 	<ul style="list-style-type: none"> ■ Aluminum ■ 0105 (628) ■ 0205 ■ 0410 ■ 0510 ■ 0710 (710) ■ 0810 (711) <input type="checkbox"/> 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.



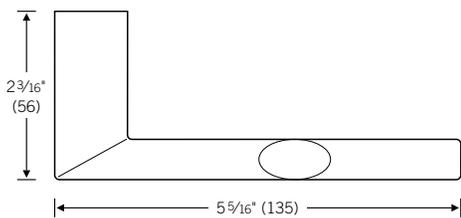
66 6537, refer to Pulls



Design: Hartmut Weise

	Premium	Elements	Transitions
Materials and Finishes	<ul style="list-style-type: none"> ■ Stainless Steel ■ 6204 (630) ■ 6205 (629) 	<ul style="list-style-type: none"> ■ Aluminum ■ 0105 (628) ■ 0205 ■ 0410 ■ 0510 ■ 0710 (710) ■ 0810 (711) □ Powder Coated 	

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".



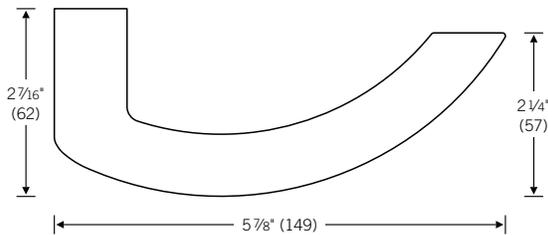
66 6538, refer to Pulls



Design: Hartmut Weise

	Premium	Elements	Transitions
Materials and Finishes	<ul style="list-style-type: none"> ■ Stainless Steel ■ 6204 (630) ■ 6205 (629) 	<ul style="list-style-type: none"> ■ Aluminum ■ 0105 (628) ■ 0205 ■ 0410 ■ 0510 ■ 0710 (710) ■ 0810 (711) <input type="checkbox"/> Powder Coated 	

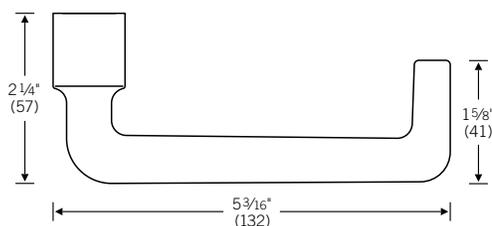
FSB 1119 incorporates insights gained by FSB in cooperation with the Fraunhofer Institute. While when producing the FSB 7655 utmost importance was given to the rigorous implementation of ergonomic parameters, for the FSB 1119 formal aesthetic considerations took precedence.



Design: Hartmut Weise

Materials and Finishes	Premium	Elements	Transitions
	<ul style="list-style-type: none"> Stainless Steel 6204 (630) 6205 (629) 	<ul style="list-style-type: none"> Aluminum 0105 (628) 0205 0410 0510 0710 (710) 0810 (711) Powder Coated 	
	<ul style="list-style-type: none"> Bronze 7305 (611) 7615 (615) 7625 (613) 		

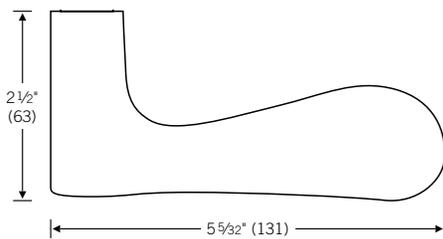
David Chipperfield's design was influenced by the pioneers of the Modern movement. The simple formal concept was devised to work across all functional variants and to express an architectural philosophy which addresses domestic as well as public spaces.



Design: David Chipperfield

	Premium	Elements	Transitions
Materials and Finishes	<ul style="list-style-type: none"> ■ Stainless Steel ■ Bronze ■ 6204 (630) ■ 7305 (611) ■ 6205 (629) ■ 7615 (615) ■ 7625 (613) 	<ul style="list-style-type: none"> ■ Aluminum ■ 0105 (628) ■ 0205 ■ 0410 ■ 0510 ■ 0710 (710) ■ 0810 (711) <input type="checkbox"/> Powder Coated 	

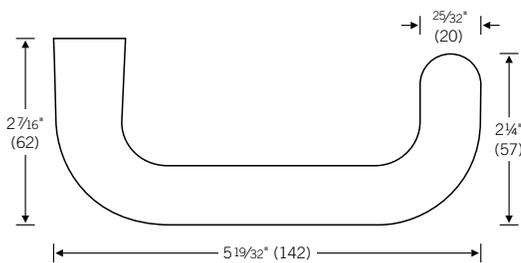
The FSB 1144 door handle is as pleasing to the eye as to the hand. Designer Jasper Morrison lets our eyes know that this door handle is a manual tool. Your eyes relax and your hand takes over. Your thumb finds its place, your forefinger finds its hollow and your hand finds plenty to get hold of. This 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	<ul style="list-style-type: none"> ■ Stainless Steel ■ 6204 (630) ■ 6205 (629) 	<ul style="list-style-type: none"> ■ Aluminum ■ 0105 (628) ■ 0205 ■ 0410 ■ 0510 ■ 0710 (710) ■ 0810 (711) □ Powder Coated 	

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

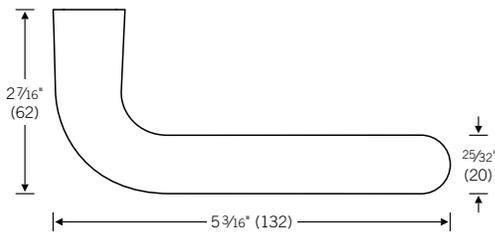


	Premium	Elements	Transitions
Materials and Finishes	<ul style="list-style-type: none"> ■ Stainless Steel ■ 6204 (630) ■ 6205 (629) 	<ul style="list-style-type: none"> ■ Aluminum ■ 0105 (628) ■ 0205 ■ 0410 ■ 0510 ■ 0710 (710) ■ 0810 (711) <input type="checkbox"/> Powder Coated 	

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.

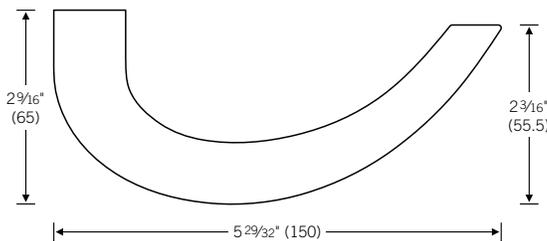


66 6602, refer to Pulls



	Premium	Elements	Transitions
Materials and Finishes	<ul style="list-style-type: none"> ■ Stainless Steel ■ 6204 (630) ■ 6205 (629) 	<ul style="list-style-type: none"> ■ Aluminum ■ 0105 (628) ■ 0205 ■ 0410 ■ 0510 ■ 0710 (710) ■ 0810 (711) □ Powder Coated 	

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.

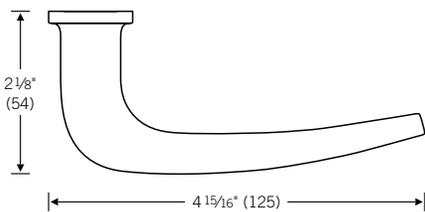


	Premium	Elements	Transitions
Materials and Finishes	<ul style="list-style-type: none"> ■ Stainless Steel ■ 6204 (630) ■ 6205 (629) 	<ul style="list-style-type: none"> ■ Aluminum ■ 0105 (628) ■ 0205 ■ 0410 ■ 0510 ■ 0710 (710) ■ 0810 (711) <input type="checkbox"/> Powder Coated 	

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.



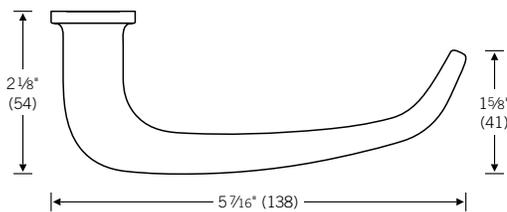
Design: Hans Kollhoff

	Premium	Elements	Transitions
Materials and Finishes	<ul style="list-style-type: none"> ■ Stainless Steel ■ Bronze 	<ul style="list-style-type: none"> ■ Aluminum 	
	<ul style="list-style-type: none"> ■ 6204 (630) ■ 6205 (629) ■ 7305 (611) ■ 7615 (615) ■ 7625 (613) 		
		<ul style="list-style-type: none"> ■ 0105 (628) ■ 0205 ■ 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.



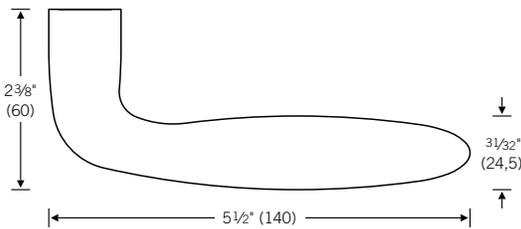
Design: Hans Kollhoff

Materials and Finishes		Elements	Transitions
Premium ■ 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	

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.



Materials and Finishes

Premium

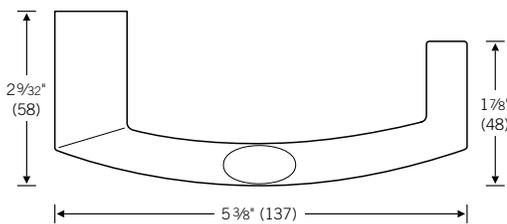
- Stainless Steel
- 6204 (630)
- 6205 (629)

Elements

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

Transitions

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

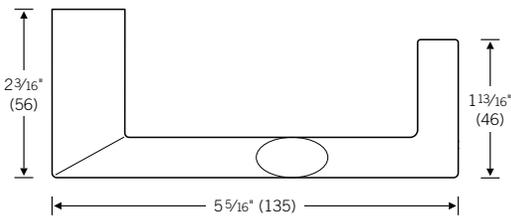
Materials and Finishes		Elements	Transitions
Premium ■ Stainless Steel ■ 6204 (630) ■ 6205 (629)		■ Aluminum ■ 0105 (628) ■ 0205 ■ 0410 ■ 0510 ■ 0710 (710) ■ 0810 (711) □ Powder Coated	

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

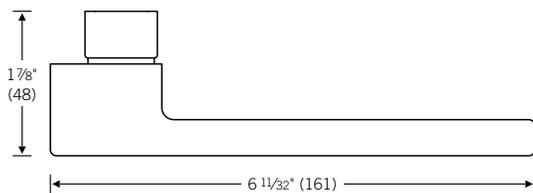


Design: Hartmut Weise

Materials and Finishes	Premium	Elements	Transitions
	<ul style="list-style-type: none"> ■ Stainless Steel ■ 6204 (630) ■ 6205 (629) 	<ul style="list-style-type: none"> ■ Aluminum ■ 0105 (628) ■ 0205 ■ 0410 ■ 0510 ■ 0710 (710) ■ 0810 (711) □ Powder Coated 	

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”.

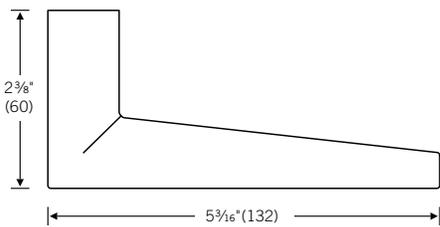
Hadi Teherani solved the function of the offset handle to avert the risk of skinning your thumb on the door frame, by simply shifting the handle’s axis of rotation to the left.



Design: Hadi Teherani

Materials and Finishes	Premium	Elements	Transitions
	<ul style="list-style-type: none"> ■ Stainless Steel ■ 6204 (630) ■ 6205 (629) 	<ul style="list-style-type: none"> ■ Aluminum ■ 0105 (628) ■ 0205 ■ 0410 ■ 0510 ■ 0710 (710) ■ 0810 (711) <input type="checkbox"/> Powder Coated 	

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.



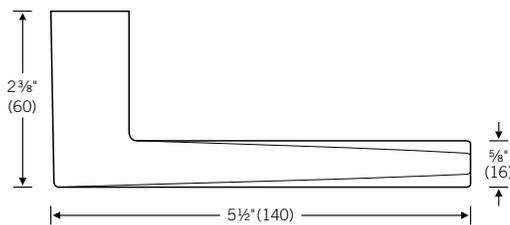
Design: Andreas Heupel

	Premium	Elements	Transitions
Materials and Finishes		<ul style="list-style-type: none"> ■ Aluminum ■ 0105 (628) ■ 0205 ■ 0410 ■ 0510 ■ 0710 (710) ■ 0810 (711) □ Powder Coated 	

Lever Handle 1241



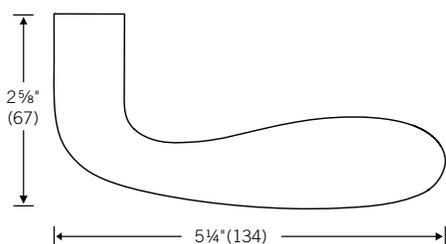
A door handle designed by the RDAI agency using a rectangular section at the point of fixation which is morphed into an elliptical section as it forms the lever. A dialogue between a rational rectilinear form and an organic ergonomomy.



Design: RDAI

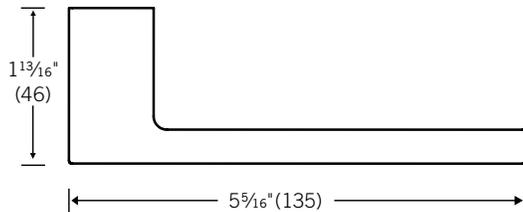
Materials and Finishes	Premium	Elements ■ Aluminum ■ 0105 (628) ■ 0205 ■ 0410 ■ 0510 ■ 0710 (710) ■ 0810 (711) □ Powder Coated	Transitions ■ Brass Plated Brass ■ 014 (618) ■ 015 (619) ■ 026 (625) ■ 03P (605) Natural Brass ■ 003 (605) ■ 004 (606) ■ 10B (607)

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	Elements	Transitions										
Materials and Finishes			<p>■ Brass</p> <table border="0"> <tr> <td>Plated Brass</td> <td>Natural Brass</td> </tr> <tr> <td>■ 014 (618)</td> <td>■ 003 (605)</td> </tr> <tr> <td>■ 015 (619)</td> <td>■ 004 (606)</td> </tr> <tr> <td>■ 026 (625)</td> <td>■ 10B (607)</td> </tr> <tr> <td>■ 03P (605)</td> <td></td> </tr> </table>	Plated Brass	Natural Brass	■ 014 (618)	■ 003 (605)	■ 015 (619)	■ 004 (606)	■ 026 (625)	■ 10B (607)	■ 03P (605)	
Plated Brass	Natural Brass												
■ 014 (618)	■ 003 (605)												
■ 015 (619)	■ 004 (606)												
■ 026 (625)	■ 10B (607)												
■ 03P (605)													

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.

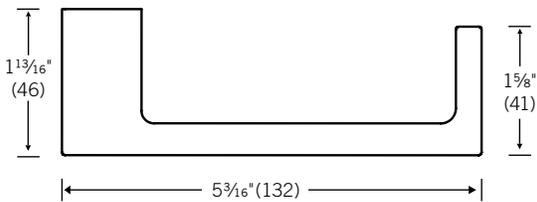


Materials and Finishes	Premium	Elements	Transitions	
	<ul style="list-style-type: none"> ■ Stainless Steel ■ 6204 (630) ■ 6205 (629) 		<ul style="list-style-type: none"> ■ Brass 	<ul style="list-style-type: none"> ■ Plated Brass ■ 014 (618) ■ 015 (619) ■ 026 (625) ■ 03P (605)

Lever Handle 1252

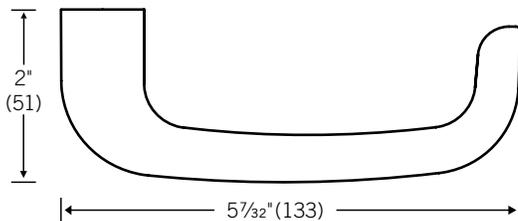


Without compromising our design intent the 1252 adds a "return" to the 1251 in order to satisfy fire code requirements where necessary.



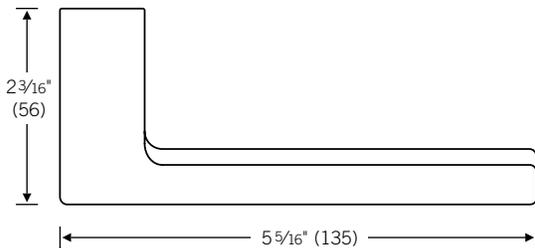
Materials and Finishes	Premium	Elements	Transitions
			<ul style="list-style-type: none"> ■ Brass Plated Brass <ul style="list-style-type: none"> ■ 014 (618) ■ 015 (619) ■ 026 (625) ■ 03P (605) Natural Brass <ul style="list-style-type: none"> ■ 003 (605) ■ 004 (606) ■ 10B (607)

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	Elements	Transitions
Materials and Finishes			<ul style="list-style-type: none"> ■ Brass Plated Brass <ul style="list-style-type: none"> ■ 014 (618) ■ 015 (619) ■ 026 (625) ■ 03P (605) Natural Brass <ul style="list-style-type: none"> ■ 003 (605) ■ 004 (606) ■ 10B (607)

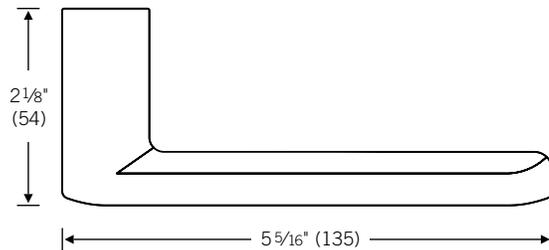
The "V-Line" designed by in-house designer Hartmut Weise features a concave front which provides both visual and functional benefits. Our eyes find pleasure in the play of light and shadows created and the decorative effect provides ergonomic guidance for the thumb keeping with the Four-Point Guide to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



Design: Hartmut Weise

	Premium	Elements	Transitions
Materials and Finishes		<ul style="list-style-type: none"> ■ Aluminum ■ 0105 (628) ■ 0205 ■ 0410 ■ 0510 ■ 0710 (710) ■ 0810 (711) □ Powder Coated 	

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

Materials and Finishes	Premium	Elements	Transitions
		<ul style="list-style-type: none"> ■ 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.

SML & SMT

Specifying Mortise Locksets

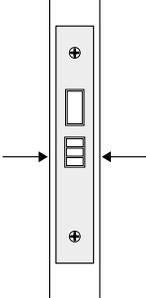
(SML) Available with Premium Series and Elements Series Trim

(SMT) Available with Transitions Series Trim

SML & SMT

Lock Type	Lock Function	Lever Design	Trim Set	Thumbturn and Indicator																																																				
SML Insert your choice of Lock Type. SML Premium Elements	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 x Key Deadlock P Key x 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	1147 Insert your choice of lever design using one of the four digit codes. Premium/Elements <table border="0"> <tr><td>1001*</td><td>1078</td></tr> <tr><td>1002*</td><td>1080</td></tr> <tr><td>1003</td><td>1088</td></tr> <tr><td>1004</td><td>1093</td></tr> <tr><td>1005</td><td>1102</td></tr> <tr><td>1015</td><td>1106</td></tr> <tr><td>1016</td><td>1107</td></tr> <tr><td>1020*</td><td>1108</td></tr> <tr><td>1021</td><td>1119</td></tr> <tr><td>1023</td><td>1134</td></tr> <tr><td>1025</td><td>1144</td></tr> <tr><td>1027</td><td>1146</td></tr> <tr><td>1028</td><td>1147</td></tr> <tr><td>1031</td><td>1160</td></tr> <tr><td>1034*</td><td>1163</td></tr> <tr><td>1035</td><td>1164</td></tr> <tr><td>1045</td><td>1176</td></tr> <tr><td>1051*</td><td>1177</td></tr> <tr><td>1053</td><td>1178</td></tr> <tr><td>1057</td><td>1183</td></tr> <tr><td>1058</td><td>1185*</td></tr> <tr><td>1070</td><td>1241*</td></tr> <tr><td>1074</td><td>1251^</td></tr> <tr><td>1075</td><td>1257*</td></tr> <tr><td>1076</td><td>1259*</td></tr> <tr><td>1077*</td><td></td></tr> </table> ^ Stainless Only * Elements Only	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*		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.	SN* Insert your choice of thumbturn and indicator if necessary using the codes provided. Premium/Elements  Standard thumbturn available with roses and escutcheons S  ADA thumbturn available with RA and RD roses only D  Crescent thumbturn available with RF Trim only C 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.
			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*																																																								
SMT Transitions	Transitions <table border="0"> <tr><td>1035</td><td>1250</td></tr> <tr><td>1058</td><td>1251</td></tr> <tr><td>1075</td><td>1252</td></tr> <tr><td>1076</td><td>1253</td></tr> <tr><td>1241</td><td></td></tr> </table>	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  Standard thumbturn available with all roses and escutcheons S  ADA thumbturn available with roses only D																																											
1035	1250																																																							
1058	1251																																																							
1075	1252																																																							
1076	1253																																																							
1241																																																								

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

Material and Finish	Backset	Strike	Handing	Door Thickness
<p>6204</p> <p>Insert your choice of material and finish using one of the codes below.</p> <p>Premium Stainless Steel</p> <ul style="list-style-type: none"> ■ 6204 Satin (630) ■ 6205 Polished (629) <p>Bronze</p> <ul style="list-style-type: none"> ■ 7305 Polished, Waxed (611) ■ 7615 Aged, Waxed (615) ■ 7625 Dark Oxidized, Waxed (613) <p>Elements Aluminum Anodized</p> <ul style="list-style-type: none"> ■ 0105 Natural Color (628) ■ 0205 Champagne Silver Color ■ 0410 Bronze Color ■ 0510 Medium Bronze Color ■ 0710 Dark Bronze Color (710) ■ 0810 Black Color (711) <p>Aluminum Powder Coated</p> <ul style="list-style-type: none"> ■ 8120 Black (671) □ 8220 White (714) 	<p>234</p> <p>Insert your choice of backset using one of the three digit codes below</p> <p>Standard 234 2¾" Backset</p> <p>Special Order</p> <ul style="list-style-type: none"> 212 2½" Backset 334 3¾" Backset 500 5" Backset 600 6" Backset 	<p>M1</p> <p>Insert your choice of strike using one of the two letter codes below</p> <p>Standard M1</p> <p>Special Order</p> <ul style="list-style-type: none"> M2 M3 M4 M5 M6 M7 M8 M9 M10 M11 M12 M13 	<p>RH</p> <p>Insert your choice of hand using one of the two letter codes below</p> <ul style="list-style-type: none"> RH Right Hand RR Right Hand Reverse LH Left Hand LR Left Hand Reverse 	<p>134</p> <p>Insert your choice of door thickness using one of the three digit codes.</p> <p>Standard 134 1¾"</p> <p>Special Order</p> <ul style="list-style-type: none"> 138 1⅜" 200 2" 214 2¼" <p>All sizes over 2¼" thick please consult FSB.</p> 
<p>Transitions Plated</p> <ul style="list-style-type: none"> ■ 014 Polished Nickel (618) ■ 015 Satin Nickel (619) ■ 026 Polished Chrome (625) ■ 03P Polished Brass PVD (605) <p>Natural</p> <ul style="list-style-type: none"> ■ 003 Polished Brass (605) ■ 004 Satin Brass (606) ■ 10B Satin Brass Dark Oxidized (607) 				

Standard Mortise Locks

Series SML and SMT Functions



SML & SMT



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.

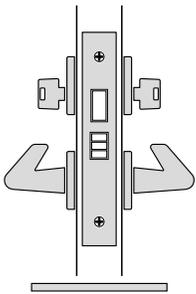
Function A

Store Door

Description

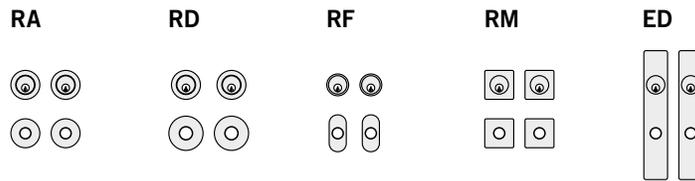
Latch bolt by handle either side.
Deadbolt by key either side.
No emergency egress.

ANSI Code F14

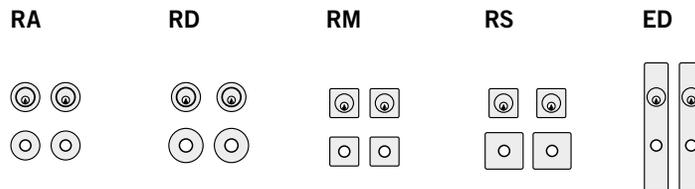


Solid Spindle

Premium and Elements Series Trim Sets



Transitions Series Trim Sets



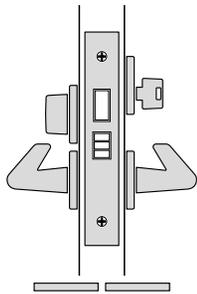
Standard Mortise Locks

Series SML and SMT Functions

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



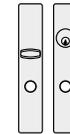
RM-S



RJ-S



ED-S



RF-C



RA-D



RD-D



Transitions Series Trim Sets

RA-S



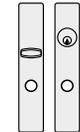
RD-S



RM-S



ED-S



RA-D



RD-D



RM-D



RS-D



Standard Mortise Locks

Series SML and SMT Functions

Function C

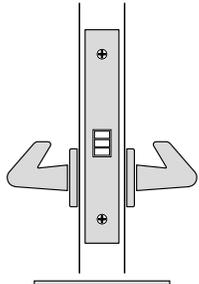
Passage

Description

Latch bolt by handle either side.

ANSI Code F01

SML & SMT



Straight Spindle

Premium and Elements Series Trim Sets

RA	RD	RF	RM	RJ	ED

Transitions Series Trim Sets

RA	RD	RM	RS	ED

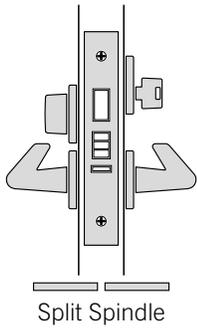
Standard Mortise Locks

Series SML and SMT Functions

Function D

Hotel

ANSI Code F15



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



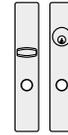
RM-S



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

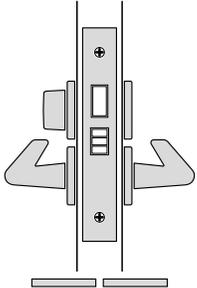
Series SML and SMT Functions

Function E

Privacy

ANSI Code F19

SML & SMT



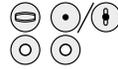
Split Spindle

Description

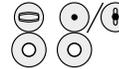
Latch bolt by handle either side.
 Deadbolt by thumbturn inside and emergency release outside.
 Use of inside handle retracts latch and deadbolt simultaneously, automatically unlocking outside handle.
 Outside handle is rigid when deadbolt is thrown by thumbturn.

Premium and Elements Series Trim Sets

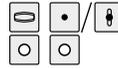
RA-SN/SI



RD-SN/SI



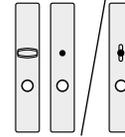
RM-SN/SI



RJ-SI



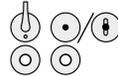
ED-SN/SI



RF-CI



RA-DN/DI

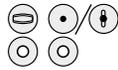


RD-DN/DI

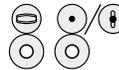


Transitions Series Trim Sets

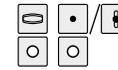
RA-SN/SI



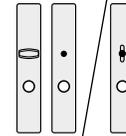
RD-SN/SI



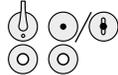
RM-SN/SI



ED-SN/SI



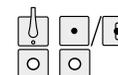
RA-DN/DI



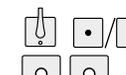
RD-DN/DI



RM-DN/DI



RS-DN/DI

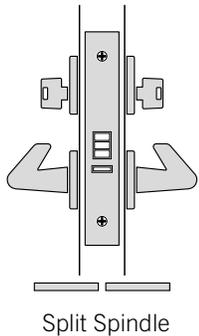


Standard Mortise Locks

Series SML and SMT Functions

Function F Public Restroom

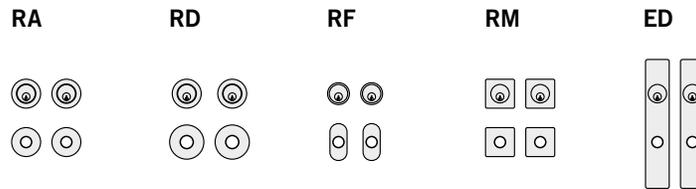
ANSI Code F09



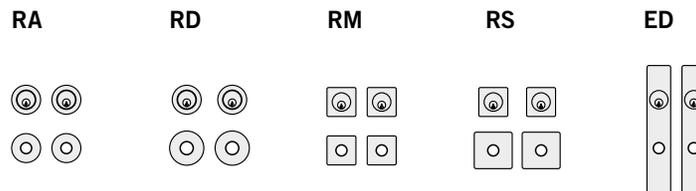
Description

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

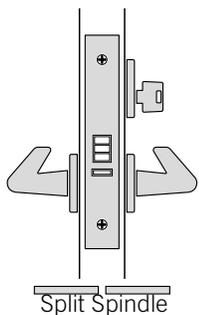


Transitions Series Trim Sets



Function G Classroom

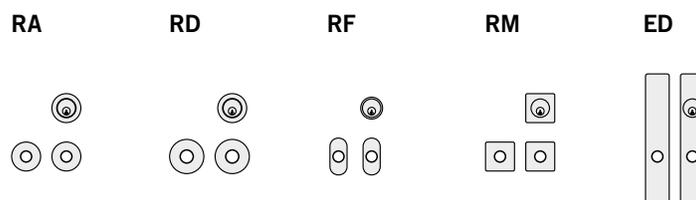
ANSI Code F05



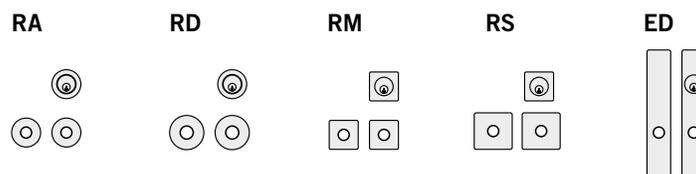
Description

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

Premium and Elements Series Trim Sets



Transitions Series Trim Sets



Standard Mortise Locks

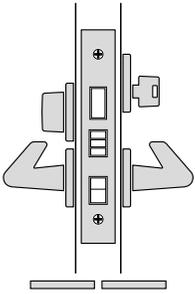
Series SML and SMT Functions

Function H

Entrance

ANSI Code F12

SML & SMT



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



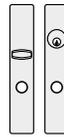
RD-S



RM-S



ED-S



RA-D



RD-D



RM-D



RS-D



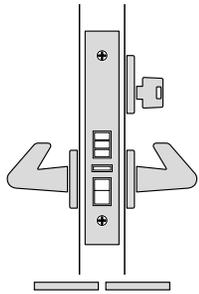
Standard Mortise Locks

Series SML and SMT Functions

Function I

Office

ANSI Code F04

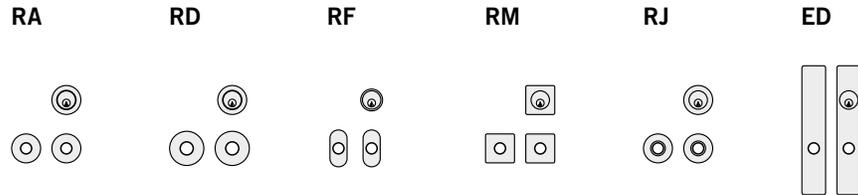


Split Spindle

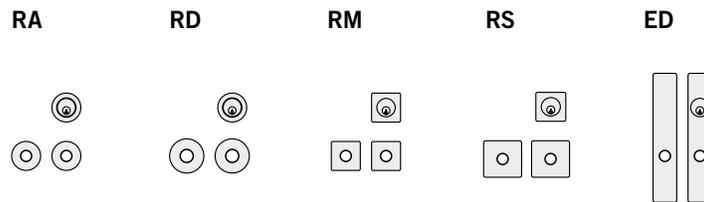
Description

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



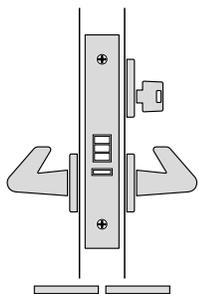
Transitions Series Trim Sets



Function J

Storeroom

ANSI Code F07

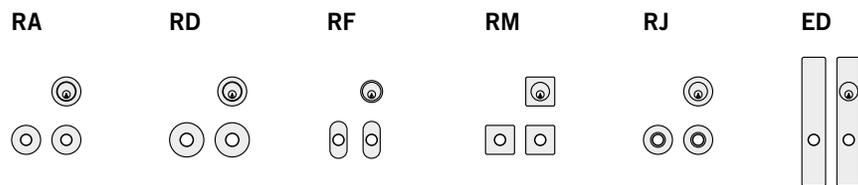


Split Spindle

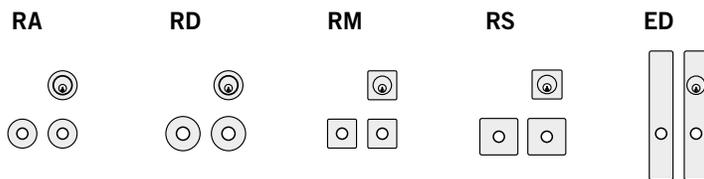
Description

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

Premium and Elements Series Trim Sets



Transitions Series Trim Sets



SML & SMT

Standard Mortise Locks

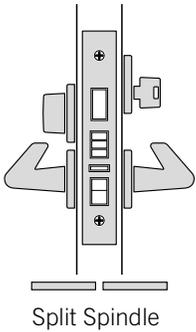
Series SML and SMT Functions

Function K

Apartment

ANSI Code F20

SML & SMT



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



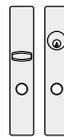
RD-S



RM-S



ED-S



RA-D



RD-D



RM-D



RS-D



Standard Mortise Locks

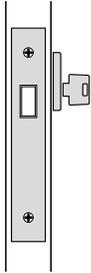
Series SML and SMT Functions

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

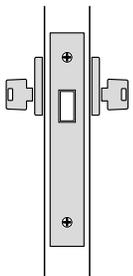
SML & SMT

Function N

Key x 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

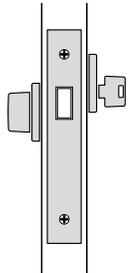
Series SML and SMT Functions

Function P

Key x Thumbturn
Deadlock

ANSI Code F17

SML & SMT



Description

Deadbolt by key outside and thumbturn inside.

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



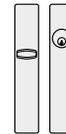
RD-S



RM-S



ED-S



RA-D



RD-D



RM-D



RS-D



Standard Mortise Locks

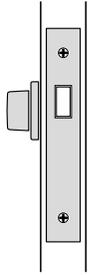
Series SML and SMT Functions

Function 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

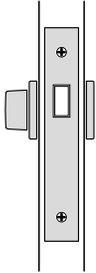
Function S

**Thumbturn Deadlock with
Emergency Release
(Privacy)**

Description

Deadbolt by thumbturn inside and emergency release outside.

SML & SMT



Premium and Elements Series Trim Sets

RA-SN/SI



RD-SN/SI



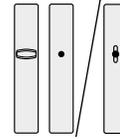
RM-SN/SI



RJ-SI



ED-SN/SI



RF-CI



RA-DN/DI



RD-DN/DI



Transitions Series Trim Sets

RA-SN/SI



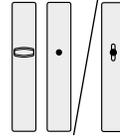
RD-SN/SI



RM-SN/SI



ED-SN/SI



RA-DN/DI



RD-DN/DI



RM-DN/DI



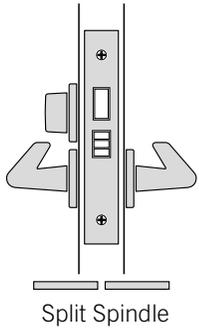
RS-DN/DI



Standard Mortise Locks

Series SML and SMT Functions

Function T Patio



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



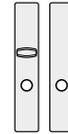
RM-S



RJ-S



ED-S



RF-C



RA-D



RD-D



Transitions Series Trim Sets

RA-S



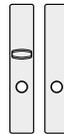
RD-S



RM-S



ED-S



RA-D



RD-D



RM-D



RS-D

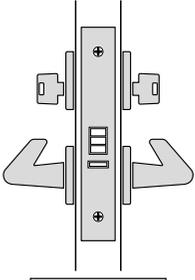


Standard Mortise Locks

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

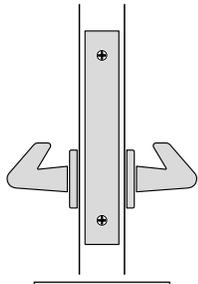
Transitions Series Trim Sets

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

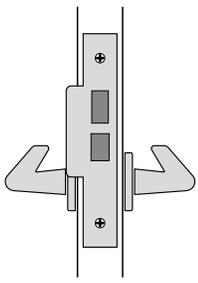
RA	RD	RM	RJ	ED	RF

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

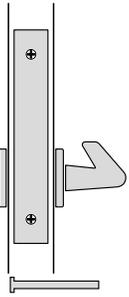
RA	RD	RM	RS	ED

Standard Mortise Locks

Series SML and SMT Functions

Function Z (Single Lever) Active Dummy Mortise Case

SML & SMT



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



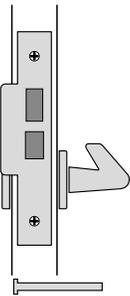
Premium and Elements Series Trim Sets

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

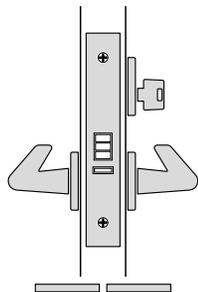
RA	RD	RM	RS	ED

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).

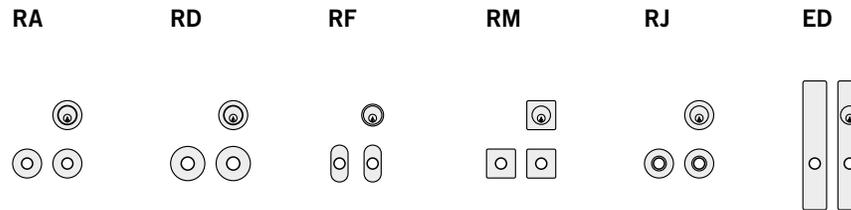
Key outside retracts latch bolt, when outside lever is locked.
Outside lever retracts latch bolt except when locked.

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

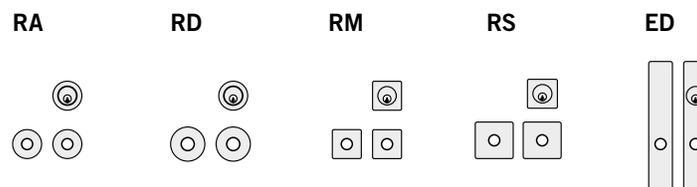
Monitoring Options

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

Premium and Elements Series Trim Sets

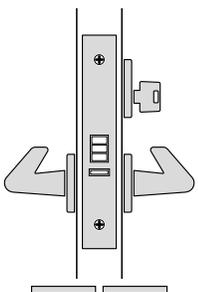


Transitions Series Trim Sets



Function JEL

**Electrified Storeroom
Fail Safe**



Split Spindle

Description

Solenoid activated mortise lock.

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

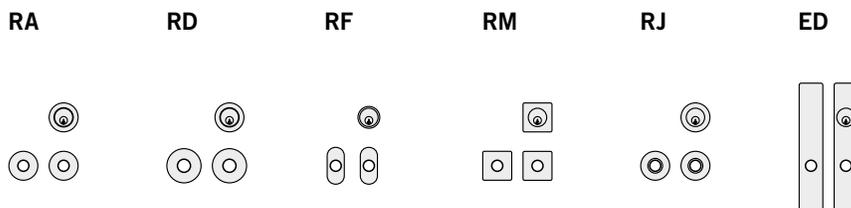
Key outside retracts latch bolt, when outside lever is locked.
Outside lever retracts latch bolt except when locked.

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

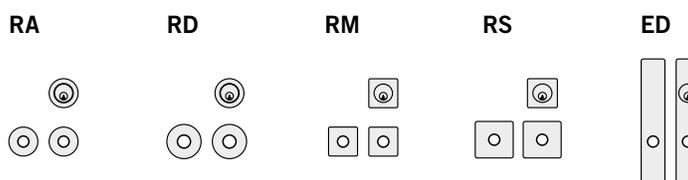
Monitoring Options

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

Premium and Elements Series Trim Sets



Transitions Series Trim Sets



Standard Mortise Locks

Series SML and SMT Functions

Function VEU

**Electrified Institutional
Fail Secure**

Description

Solenoid activated mortise lock.

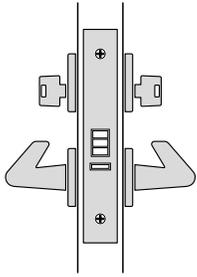
EU function – Inside and outside handles simultaneously unlocked electronically.

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

Monitoring Options

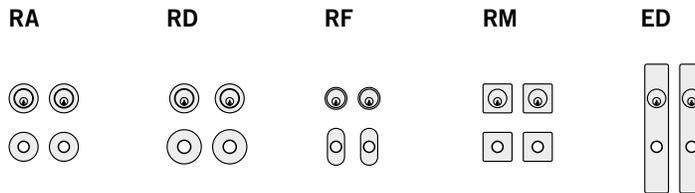
RX = Request to Exit Switch
LM = Latchbolt Monitor Switch
DP = Door Position Switch

SML & SMT

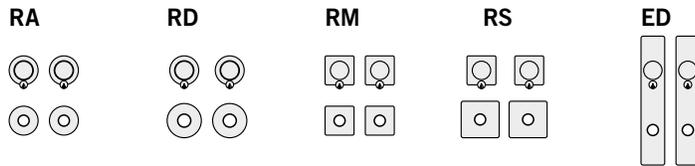


Solid Spindle

Premium and Elements Series Trim Sets



Transitions Series Trim Sets



Function VEL

**Electrified Institutional
Fail Secure**

Description

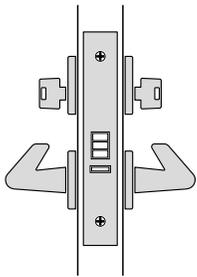
Solenoid activated mortise lock.

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.

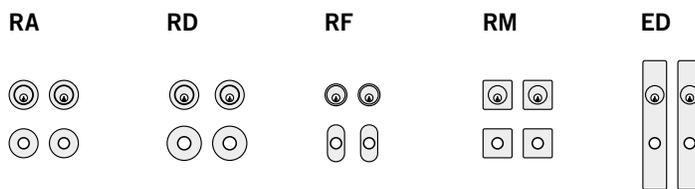
Monitoring Options

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

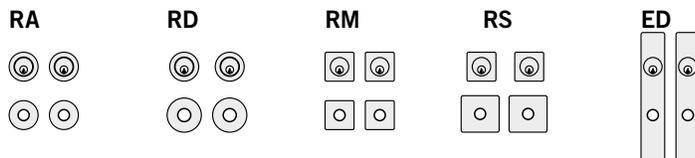


Solid Spindle

Premium and Elements Series Trim Sets



Transitions Series Trim Sets



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

SW 3



5 A, 24V 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

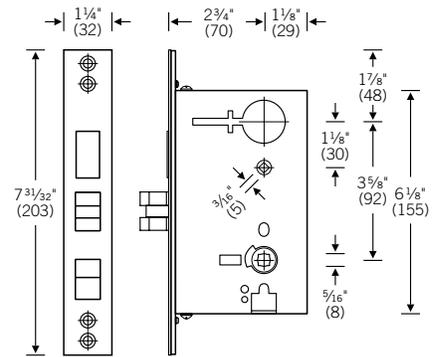
Mortise Case and Function

SML & SMT



Series SML EL or SML EU

Recommended for minimum 1 3/4" (45 mm) door thickness with standard 1 1/4" (32 mm) armor front. 1" (25.4 mm) armor front available for doors with 1 3/8" (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

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

PS5-8

5A, 24V 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 2 3/4" backset only.

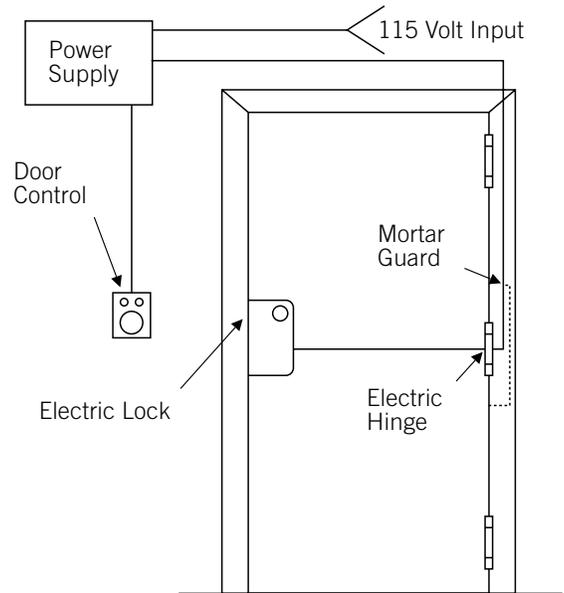
Monitors the status of both the solenoid (locked or unlocked) and the auxiliary latch (deadlatch position). This feature may be used to determine the security status (locked or unlocked), activate an alarm, or send notification to a control console.

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 12V = 700 mA or 24V = 350 mA.
Solenoid coil resistance is 12 = 18 Ω or 24V = 69 Ω.
Power consumption is 8 watts.

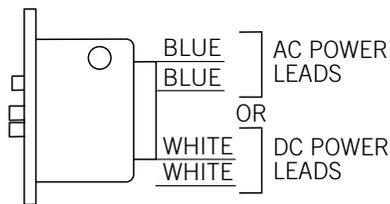
Typical installation



SML & SMT

Wiring schematics by option

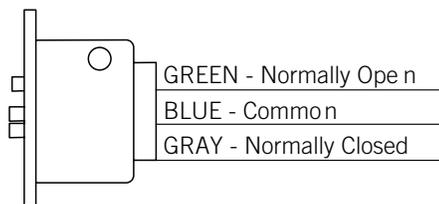
EL & EU – Fail Safe and Fail Secure



LM – Latchbolt Monitor Switch



RX – Request to Exit Switch



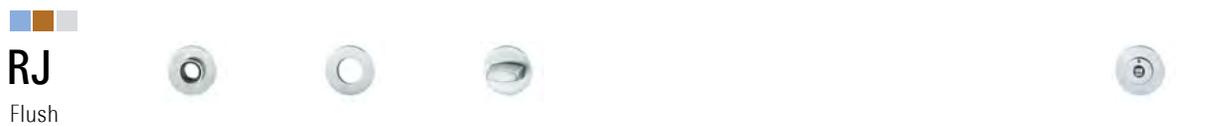
DP – Door Position Switch



Trim Set Overview

Series SML and SMT

SML & SMT



Materials and Finishes	Premium		Elements	Transitions	
	<ul style="list-style-type: none"> ■ Stainless Steel ■ Bronze ■ 6204 (630) ■ 7305 (611) ■ 6205 (629) ■ 7615 (615) ■ 7625 (613) 			<ul style="list-style-type: none"> ■ Aluminum ■ 0105 (628) ■ 0205 ■ 0410 ■ 0510 ■ 0710 (710) ■ 0810 (711) Powder Coated 	<ul style="list-style-type: none"> ■ Brass Plated Brass ■ 014 (618) ■ 015 (619) ■ 026 (625) ■ 03P (605)

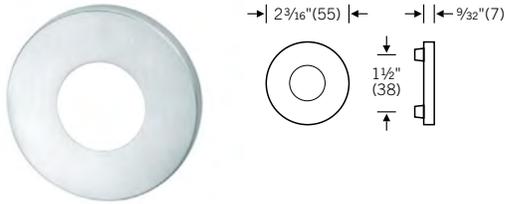
Round Lever Roses

Series SML and SMT

Premium, Elements & Transitions

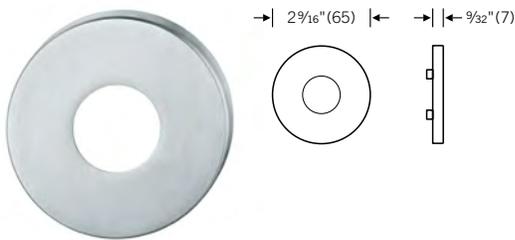
RA

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



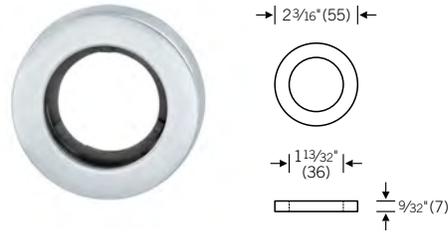
RD

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



Cylinder Ring

17 1735 02601 



Cylinder must be ordered separately

SML & SMT

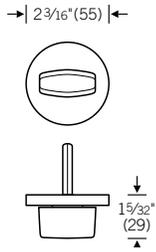
Thumbturns for RA 55mm & RD 65mm Roses

Series SML and SMT

S

17 1744 00169 
Standard Thumbturn

SML & SMT



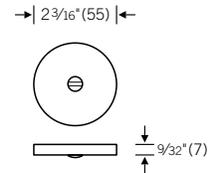
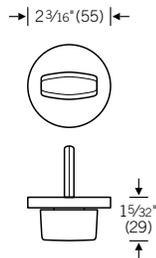
RA - Configuration
55mm S Thumbturn
55mm Lever Rose

RD - Configuration
55mm S Thumbturn
65mm Lever Rose

Standard Turn with Emergency Release (SN)

17 1744 00160 

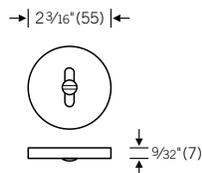
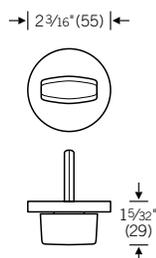
Trim Set - Includes two rose assemblies, spindle and screws



Standard Turn with Emergency Release and Indicator (SI)

17 1744 00159 

Trim Set - Includes two rose assemblies, spindle and screws

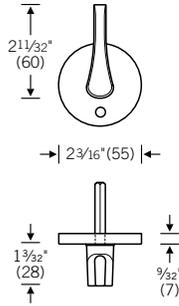


Thumbturns for RA 55mm & RD 65mm Roses

Series SML and SMT

D

17 1744 09169 ■ ■ ■
 ADA Thumbturn



RA - Configuration
 55mm D Thumbturn
 55mm Lever Rose



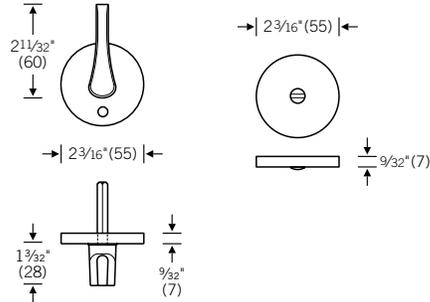
RD - Configuration
 55mm D Thumbturn
 65mm Lever Rose

SML & SMT

ADA Turn with Emergency Release (DN)

17 1744 09160 ■ ■ ■

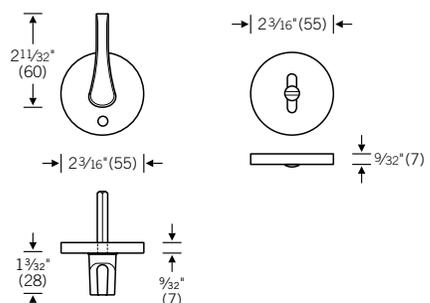
Trim Set - Includes two rose assemblies, spindle and screws



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

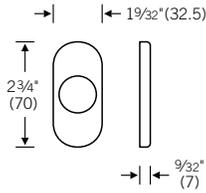
Series SML and SMT

Premium and Elements Only

RF

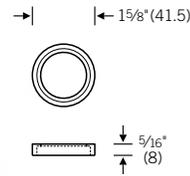
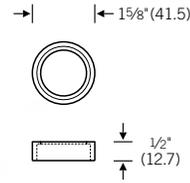
17 1758 00001 ■■■
Narrow Rose

SML & SMT



Cylinder Ring

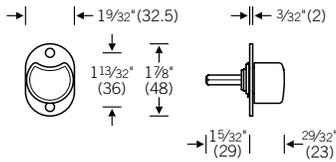
03 0450 09000 ■■■
03 0450 09001 ■■■



Cylinder must be ordered separately

C

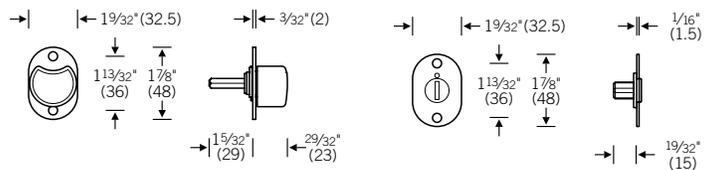
03 0418 09001 ■■■
Crescent Thumbturn



Crescent Turn with Emergency Release and Indicator (CI)

03 0418 09002 ■■■

Trim Set - Includes two rose assemblies, spindle and screws

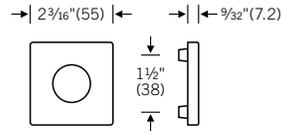


Square Lever Roses

Series SML and SMT

RM

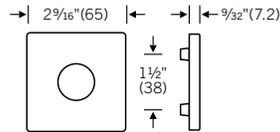
17 1703 01401 
Square Rose



Transitions Series SMT only

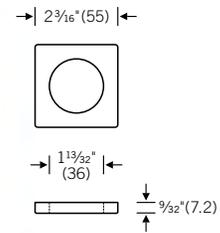
RS Designed to fit a 2 1/8" bore

17 1705 01401 
Square Rose



Cylinder Ring

17 1704 02601 



Cylinder must be ordered separately

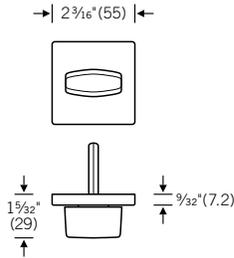
SML & SMT

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



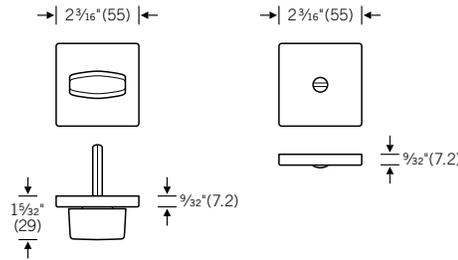
RS - Configuration
55mm S Thumbturn
65mm Lever Rose

SML & SMT

Standard Turn with Emergency Release (SN)

17 1712 00160 

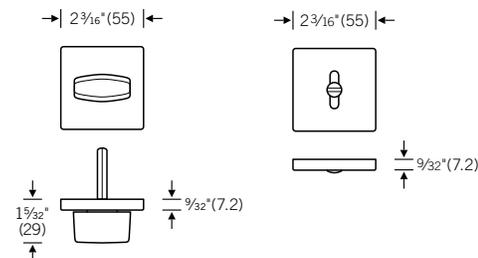
Trim Set - Includes two rose assemblies, spindle and screws



Standard Turn with Emergency Release and Indicator (SI)

17 1712 00159 

Trim Set - Includes two rose assemblies, spindle and screws

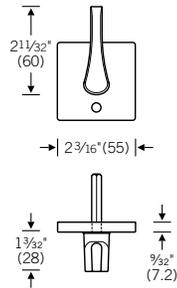


Thumbturns for RM 55mm & RS 65mm Square Roses Series SMT

Transitions Only

D

17 1712 09169 ■
ADA Thumbturn



RM - Configuration
55mm D Thumbturn
55mm Lever Rose



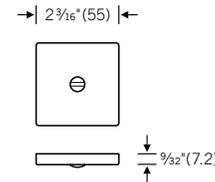
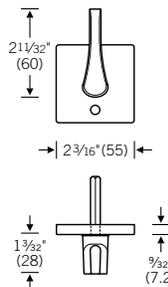
RS - Configuration
55mm D Thumbturn
65mm Lever Rose

SMT & SMT

ADA Turn with Emergency Release (DN)

17 1712 09160 ■ Transitions Series Only

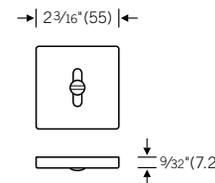
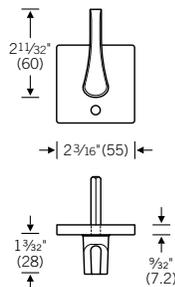
Trim Set - Includes two rose assemblies, spindle and screws



ADA Turn with Emergency Release and Indicator (DI)

17 1712 09159 ■ Transitions Series Only

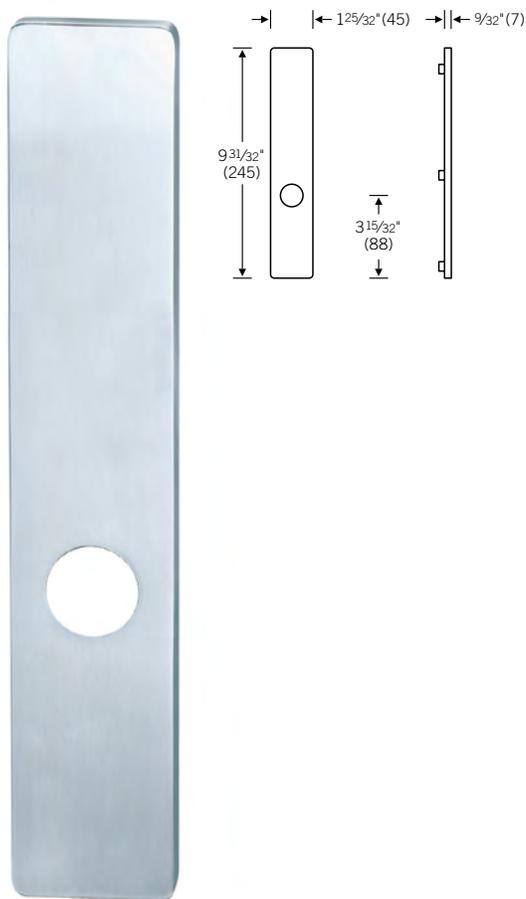
Trim Set - Includes two rose assemblies, spindle and screws



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

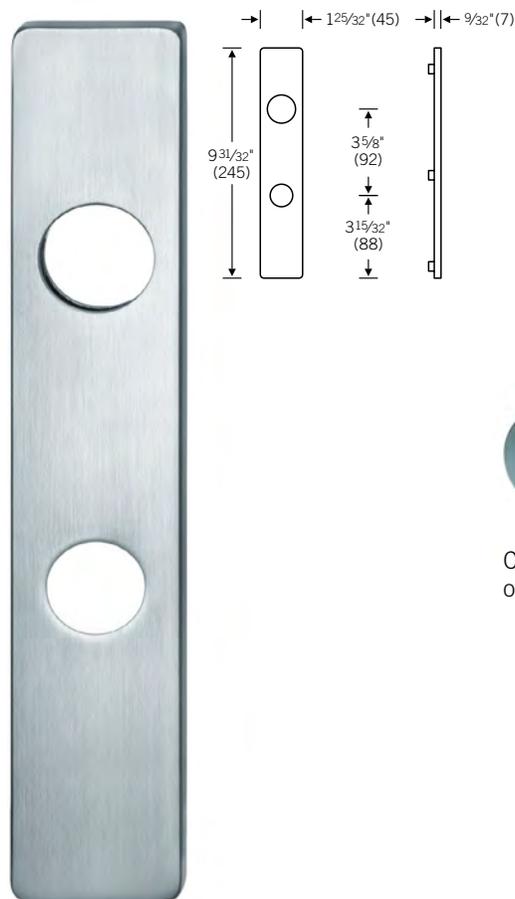
ED

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



Cylinder Hole

14 1410 09101 

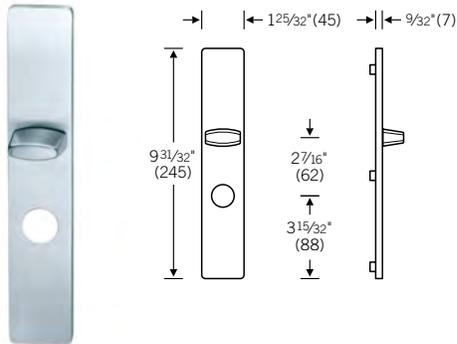


Cylinder must be ordered separately

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

S

14 1410 09102 
Standard Thumbturn

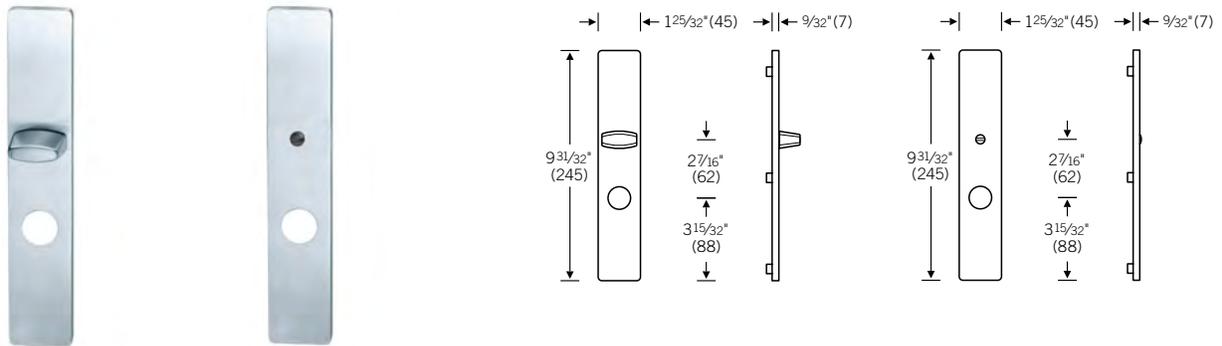


SML & SMT

Standard Turn with Emergency Release (SN)

14 1410 09103 

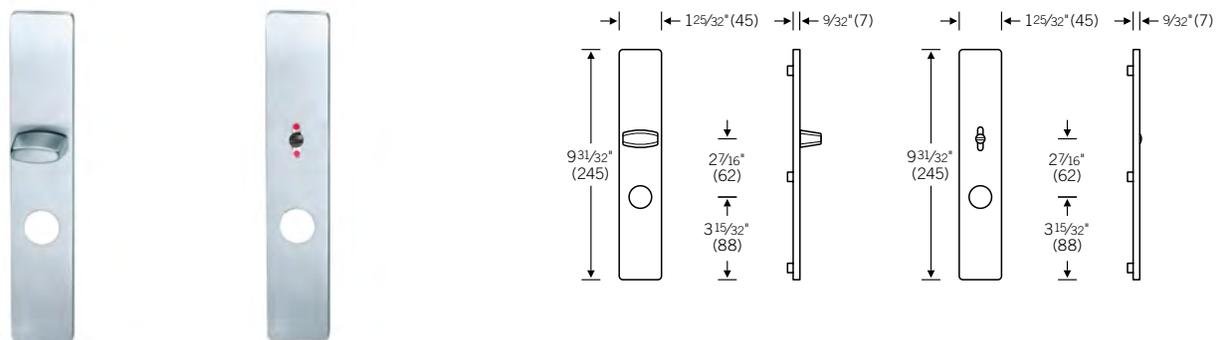
Trim Set - Includes two rose assemblies, spindle and screws



Standard Turn with Emergency Release and Indicator (SI)

14 1410 09113 

Trim Set - Includes two rose assemblies, spindle and screws



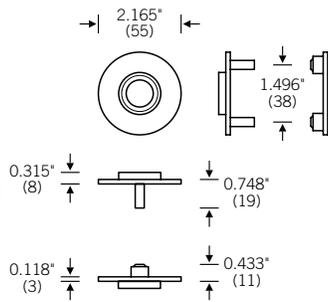
Flush Rose and Thumbturn RJ

Series SML and SMT

Premium and Elements Only

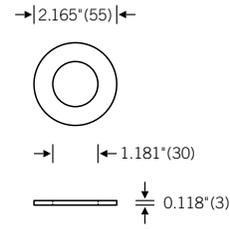
RJ

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



Cylinder Ring

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



Cylinder must be ordered separately

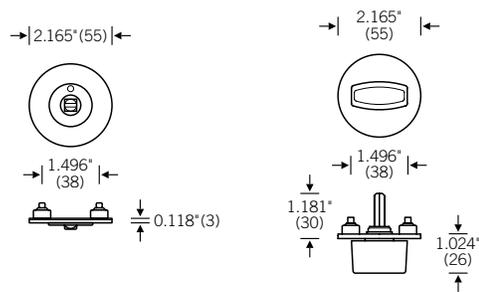
SML & SMT

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.

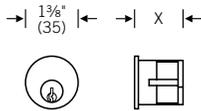
RJ trim is available for 1 3/4" door thickness only.

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

SML and SMT Lock Series

North American Cylinders

88 8806



- 88 8806 07165 Length X = 1"
- 88 8806 07185 Length X = 1 1/8"
- 88 8806 07205 Length X = 1 1/4"
- 88 8806 07245 Length X = 1 1/2"
- 88 8806 07285 Length X = 1 3/4"
- 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" x 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.	1 3/8"	1"	88 8806 7165sc19	N/A	N/A
	1 3/4"	1 1/8"	88 8806 7185sc19	1"	88 8806 7165sc19
	2"	1 1/4"	88 8806 7205sc19	1 1/8"	88 8806 7185sc19
	2 1/4"	1 1/4"	88 8806 7205sc19	1 1/8"	88 8806 7185sc19
	2 3/8"	1 1/2"	88 8806 7245sc19	Call	
	3"	1 1/4"	88 8806 7285sc19	Call	
	3 1/4"	1 7/8"	88 8806 7305sc19	Call	
	3 1/2"	2"	88 8806 7325sc19	Call	
Escutcheons	1 3/8"	N/A	N/A	N/A	N/A
	1 3/4"	1 1/4"	88 8806 7205sc19	1 1/8"	88 8806 7185sc19
	2"	1 1/4"	88 8806 7205sc19	1 1/8"	88 8806 7185sc19
	2 1/4"	1 1/2"	88 8806 7245sc19	1 1/4"	88 8806 7205sc19
	2 3/8"	1 3/4"	88 8806 7285sc19	Call	
	3"	1 7/8"	88 8806 7305sc19	Call	
	3 1/4"	2"	88 8806 7325sc19	Call	

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

SML and SMT Lock Series Strikes



SML 1001

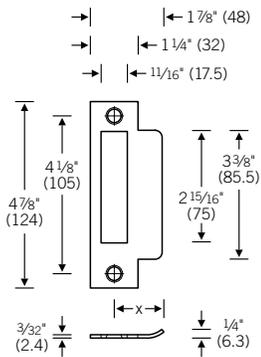
SML Series Mortise Strike (ANSI/ASA Strike) with dustbox

Standard **M1** = 1 ¼" (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



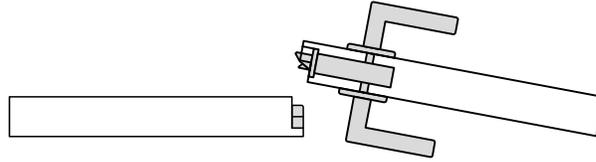
Mortise Strike Number	Lip To Center Dimension (x)	Typical Door Thickness*	ANSI Strike Type
M1	1 ¼"	1 ⅜" - 1 ¾"	Curved Lip (Std.)
M2	1 ⅛"	1 ½"	Curved Lip
M3	1 ⅜"	2"	Curved Lip
M4	1 ½"	2 ¼"	Curved Lip
M5	1 ¾"	2 ¾"	Curved Lip
M6	2"	3 ¼"	Curved Lip
M7	2 ¼"	3 ¼"	Curved Lip
M8	2 ½"	4 ¼"	Curved Lip
M9	2 ¾"	4 ¾"	Curved Lip
M10	3"	5 ¼"	Curved Lip
M11	1 ¾"	2 ¾"	Open Back
M12	2"	3 ¼"	Open Back
M13	2 ¼"	3 ¼"	Open Back

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

For custom strikes, please call FSB.

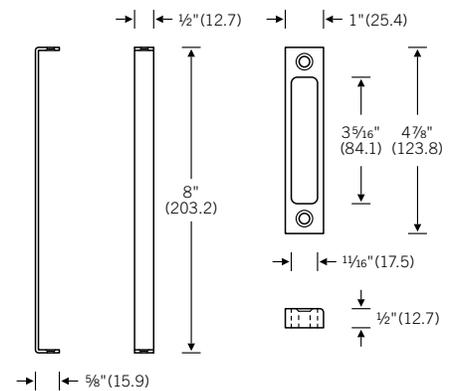
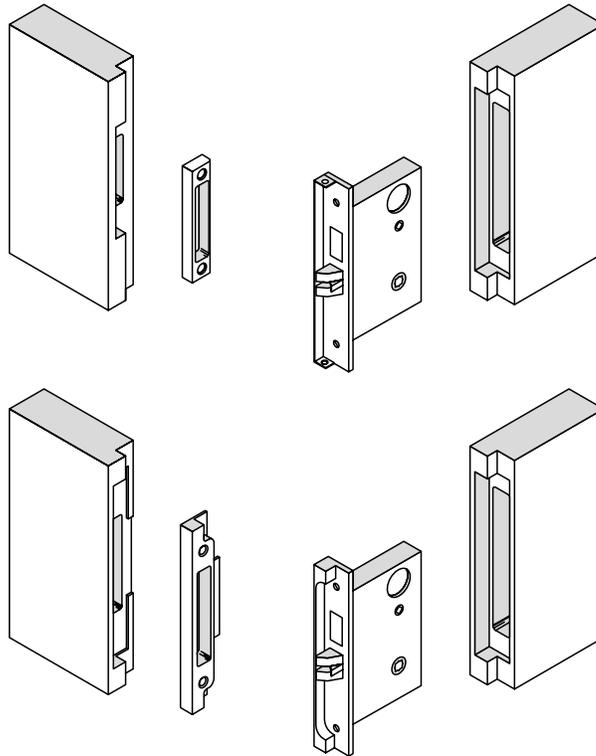
SML and SMT Lock Series

Rabbeted Strikes and Band



Standard - RFS1
Traditional - RFS2

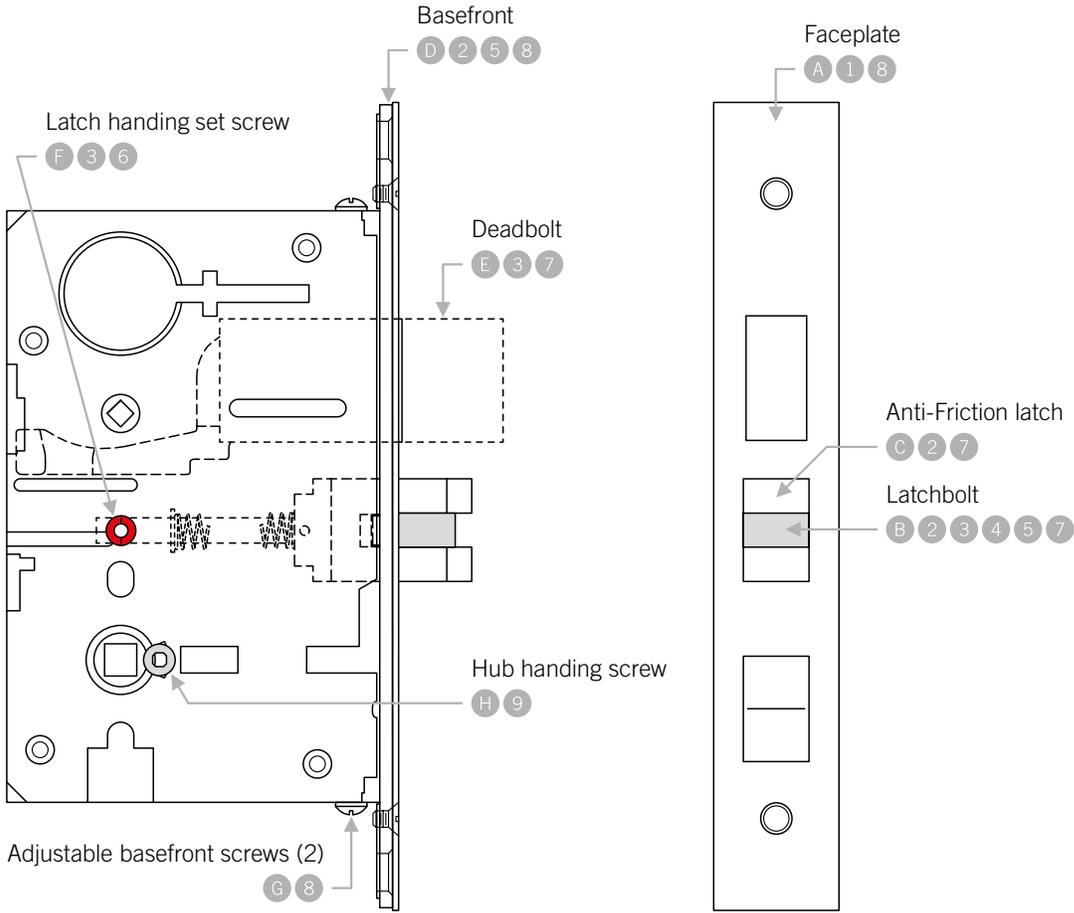
Rabbit depth 1/2" deep centered within the door. Please specify lock number, door thickness, and finish.



Technical drawing for RFS1 Standard Strike.

SML and SMT Lock Series Reverse Handing

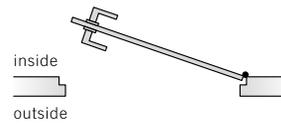
Technical Explanation



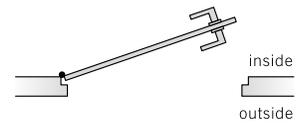
Current Hand	Required Hand	Task		
		Flip Latch	Reverse Hubs	Strike Needed*
LH	RH	•	•	RH
RH	LH	•	•	LH
LR	RR	•	•	LH
RR	LR	•	•	RH
LH	LR	•		RH
RH	RR	•		LH
LH	RR		•	LH
RH	LR		•	RH

* 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.

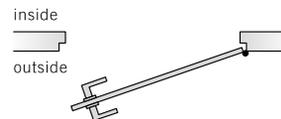
RH Right Hand



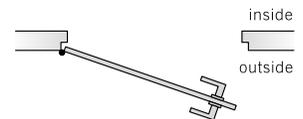
LH Left Hand



RR Right Hand Reverse

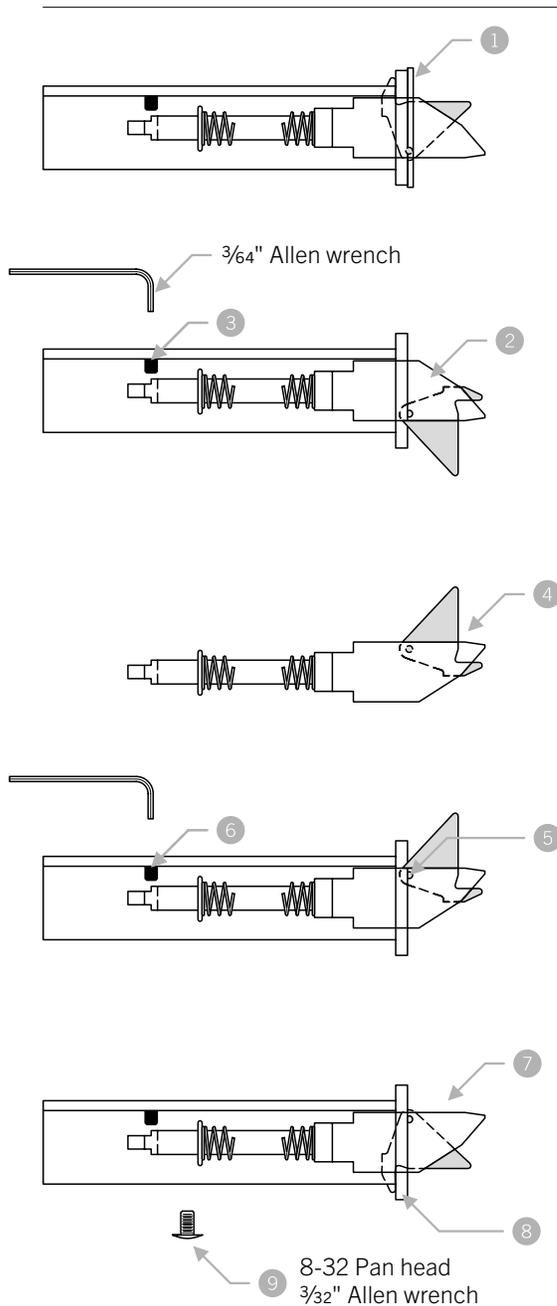


LR Left Hand Reverse



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 $\frac{3}{64}$ " 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 latchbolt **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 $\frac{3}{32}$ " 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' x 8' or 8' x 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" x 1.25" x 8"
(5.5 x 32 x 203 mm) or
.218" x 1" x 8"
(5.5 x 25.4 x 203 mm).
Adjustable for beveled conditions from flat to standard bevel
.125" on 2" (3 on 51 mm).

Faceplate (Scalp only)

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

Anti-Friction Latch Bolt

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

Deadbolt

.5625 x 1.25" x 1" (14 x 32 x 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" x 1.25" (124 x 32 mm) lip to center. Wrought stainless steel, bronze, and brass substrate finished to match. Supplied to ANSI Standard A 115.1. Regularly furnished with curved lip strike 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 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

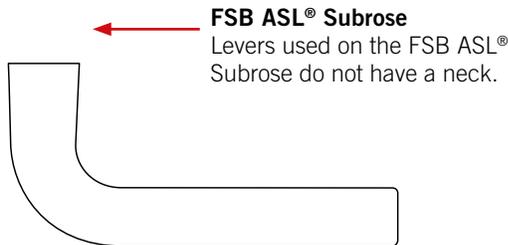
Fastening by means of through-fixed bolting with retention lugs and machine screws.

Solid spindle

The 8 mm solid spindle caters to standard door thicknesses from 1 3/8 to 2 1/4 inches.

Availability

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



FSB Original Subrose

Product variants

- Roses RA, RD, RF, RM and ED escutcheons

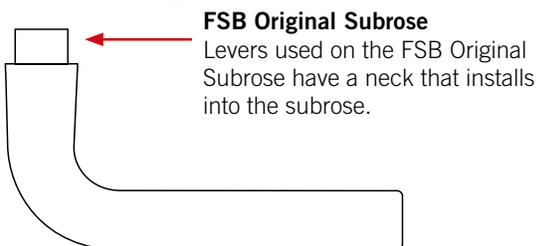
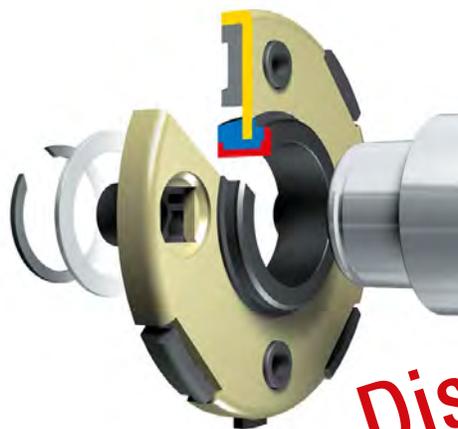
Fasteners

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





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

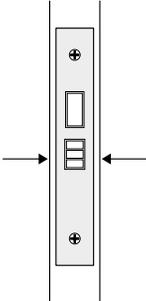
(NMT) Available with Transitions Series Trim

NML & NMT

Lock Type	Lock Function	Lever Design	Trim Set	Thumbturn and Indicator																																																																														
NML Insert your choice of Lock Type. NML Premium Elements	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 x Key Deadlock P Key x 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	1147 Insert your choice of lever or design using one of the four digit codes. Premium/Elements <table border="0"> <tr><td>1001*</td><td>1078</td></tr> <tr><td>1002*</td><td>1080</td></tr> <tr><td>1003</td><td>1088</td></tr> <tr><td>1004</td><td>1093</td></tr> <tr><td>1005</td><td>1102</td></tr> <tr><td>1015</td><td>1106</td></tr> <tr><td>1016</td><td>1107</td></tr> <tr><td>1020*</td><td>1108</td></tr> <tr><td>1021</td><td>1119</td></tr> <tr><td>1023</td><td>1134</td></tr> <tr><td>1025</td><td>1144</td></tr> <tr><td>1027</td><td>1146</td></tr> <tr><td>1028</td><td>1147</td></tr> <tr><td>1031</td><td>1160</td></tr> <tr><td>1034*</td><td>1163</td></tr> <tr><td>1035</td><td>1164</td></tr> <tr><td>1045</td><td>1176</td></tr> <tr><td>1051*</td><td>1177</td></tr> <tr><td>1053</td><td>1178</td></tr> <tr><td>1057</td><td>1183</td></tr> <tr><td>1058</td><td>1185*</td></tr> <tr><td>1070</td><td>1241*</td></tr> <tr><td>1074</td><td>1251^</td></tr> <tr><td>1075</td><td>1257*</td></tr> <tr><td>1076</td><td>1259*</td></tr> <tr><td>1077*</td><td></td></tr> </table> <p>^ Stainless Only * Elements Only</p>	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*		RA Insert your choice of rose or escutcheon using one of the two digit codes. Premium/Elements <table border="0"> <tr><td>RA</td><td>Rose 2³/₁₆" (55 mm)</td></tr> <tr><td>RD</td><td>Rose 2⁹/₁₆" (65 mm)</td></tr> <tr><td>RF</td><td>Narrow Rose</td></tr> <tr><td>RM</td><td>Square Rose (55 mm)</td></tr> <tr><td>ED</td><td>Long Rectangular</td></tr> </table> <p>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.</p>	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	SN* Insert your choice of thumbturn and indicator if necessary using the codes provided. Premium/Elements <table border="0"> <tr><td></td><td>Standard thumbturn available with roses and escutcheons</td></tr> <tr><td>S</td><td></td></tr> <tr><td></td><td>ADA thumbturn available with RA & RD roses only</td></tr> <tr><td>D</td><td></td></tr> <tr><td></td><td>Crescent thumbturn available with RF Trim only</td></tr> <tr><td>C</td><td></td></tr> </table> <p>Premium, Elements and Transitions Emergency Releases</p> <table border="0"> <tr><td></td><td>N</td><td></td><td>I</td></tr> </table> <p>* Thumbturn and/or Indicator choices are only necessary with the B, E, H, P, R, S, and T lock functions.</p>		Standard thumbturn available with roses and escutcheons	S			ADA thumbturn available with RA & RD roses only	D			Crescent thumbturn available with RF Trim only	C			N		I
			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*																																																																																		
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																																																																																	
	Standard thumbturn available with roses and escutcheons																																																																																	
S																																																																																		
	ADA thumbturn available with RA & RD roses only																																																																																	
D																																																																																		
	Crescent thumbturn available with RF Trim only																																																																																	
C																																																																																		
	N		I																																																																															
NMT Transitions		Transitions <table border="0"> <tr><td>1035</td><td>1250</td></tr> <tr><td>1058</td><td>1251</td></tr> <tr><td>1075</td><td>1252</td></tr> <tr><td>1076</td><td>1253</td></tr> <tr><td>1241</td><td></td></tr> </table>	1035	1250	1058	1251	1075	1252	1076	1253	1241		Transitions <table border="0"> <tr><td>RA</td><td>Rose 2³/₁₆" (55 mm)</td></tr> <tr><td>RD</td><td>Rose 2⁹/₁₆" (65 mm)</td></tr> <tr><td>RM</td><td>Square Rose (55 mm)</td></tr> <tr><td>RS</td><td>Square Rose 2⁹/₁₆" (65 mm)</td></tr> <tr><td>ED</td><td>Long Rectangular</td></tr> </table>	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 <table border="0"> <tr><td></td><td>Standard thumbturn available with all roses and escutcheons</td></tr> <tr><td>S</td><td></td></tr> <tr><td></td><td>ADA thumbturn available with roses only</td></tr> <tr><td>D</td><td></td></tr> </table>		Standard thumbturn available with all roses and escutcheons	S			ADA thumbturn available with roses only	D																																																			
1035	1250																																																																																	
1058	1251																																																																																	
1075	1252																																																																																	
1076	1253																																																																																	
1241																																																																																		
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																																																																																	
	Standard thumbturn available with all roses and escutcheons																																																																																	
S																																																																																		
	ADA thumbturn available with roses only																																																																																	
D																																																																																		

Example for Specifying

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

Material and Finish	Backset	Strike	Handing	Door Thickness
<p>6204</p> <p>Insert your choice of material and finish using one of the codes below.</p> <p>Premium Stainless Steel</p> <ul style="list-style-type: none"> ■ 6204 Satin (630) ■ 6205 Polished (629) <p>Bronze</p> <ul style="list-style-type: none"> ■ 7305 Polished, Waxed (611) ■ 7615 Aged, Waxed (615) ■ 7625 Dark Oxidized, Waxed (613) <p>Elements Aluminum Anodized</p> <ul style="list-style-type: none"> ■ 0105 Natural Color (628) ■ 0205 Champagne Silver Color ■ 0410 Bronze Color ■ 0510 Medium Bronze Color ■ 0710 Dark Bronze Color (710) ■ 0810 Black Color (711) <p>Aluminum Powder Coated</p> <ul style="list-style-type: none"> ■ 8120 Black (671) □ 8220 White (714) 	<p>112</p> <p>Insert your choice of backset using one of the three digit codes below</p> <p>Standard 200 2" Backset</p> <p>Special Order 112 1½" Backset (Only available with RF, ED Trim) 134 1¾" Backset (Not available with RD Trim) 214 2¼" Backset</p>	<p>N1</p> <p>Insert your choice of strike using one of the two letter codes below</p> <p>Standard N1</p> <p>Special Order N2 N3 N4 N5 N6 N7 N8 N9 N10 N11 N12 N13</p>	<p>RH</p> <p>Insert your choice of hand using one of the two letter codes below</p> <p>RH Right Hand RR Right Hand Reverse LH Left Hand LR Left Hand Reverse</p>	<p>134</p> <p>Insert your choice of door thickness using one of the three digit codes.</p> <p>Standard 134 1¾"</p> <p>Special Order 138 1⅜" 200 2" 214 2¼"</p> <p>All sizes over 2¼" thick please consult FSB.</p> 
<p>Transitions Plated</p> <ul style="list-style-type: none"> ■ 014 Polished Nickel (618) ■ 015 Satin Nickel (619) ■ 026 Polished Chrome (625) ■ 03P Polished Brass PVD (605) <p>Natural</p> <ul style="list-style-type: none"> ■ 003 Polished Brass (605) ■ 004 Satin Brass (606) ■ 10B Satin Brass Dark Oxidized (607) 				

Narrow Mortise Locks

Series NML and NMT Functions

NML & NMT



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.

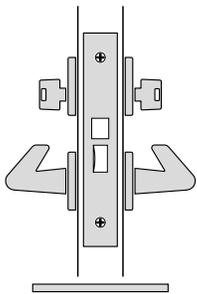
Function A

Store Door

Description

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

ANSI Code F14



Solid Spindle

Premium and Elements Series Trim Sets

RA	RD	RF	RM	ED

Transitions Series Trim Sets

RA	RD	RM	RS	ED

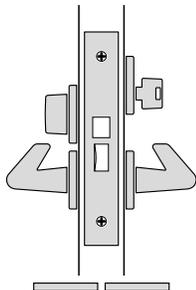
Narrow Mortise Locks

Series NML and NMT Functions

Function 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



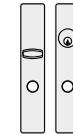
RD-S



RM-S



ED-S



RF-C



RA-D



RD-D



Transitions Series Trim Sets

RA-S



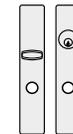
RD-S



RM-S



ED-S



RA-D



RD-D



RM-D



RS-D



Narrow Mortise Locks

Series NML and NMT Functions

Function C

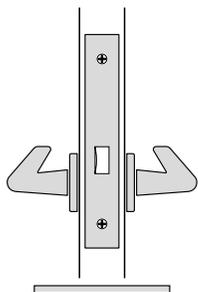
Passage

Description

Latch bolt by handle either side.

ANSI Code F01

NML & NMT



Straight Spindle

Premium and Elements Series Trim Sets

RA	RD	RF	RM	ED

Transitions Series Trim Sets

RA	RD	RM	RS	ED

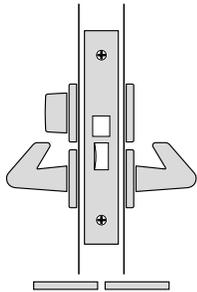
Narrow Mortise Locks

Series NML and NMT Functions

Function E

Privacy

ANSI Code F19



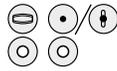
Split Spindle

Description

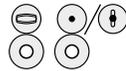
Latch bolt by handle either side.
 Deadbolt by thumbturn inside and emergency release outside.
 Use of inside handle retracts latch and deadbolt simultaneously, automatically unlocking outside handle.
 Outside handle is rigid when deadbolt is thrown by thumbturn.

Premium and Elements Series Trim Sets

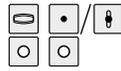
RA-SN/SI



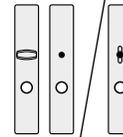
RD-SN/SI



RM-SN/SI



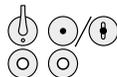
ED-SN/SI



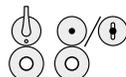
RF-CI



RA-DN/DI

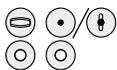


RD-DN/DI

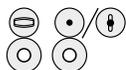


Transitions Series Trim Sets

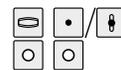
RA-SN/SI



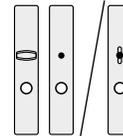
RD-SN/SI



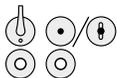
RM-SN/SI



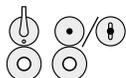
ED-SN/SI



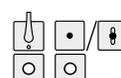
RA-DN/DI



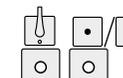
RD-DN/DI



RM-DN/DI



RS-DN/DI



Narrow Mortise Locks

Series NML and NMT Functions

Function F

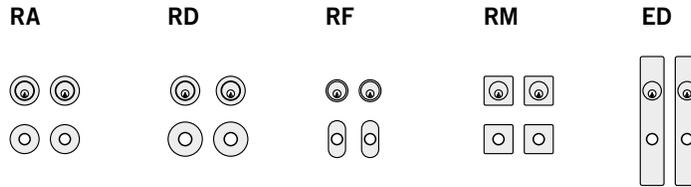
Public Restroom

ANSI Code F09

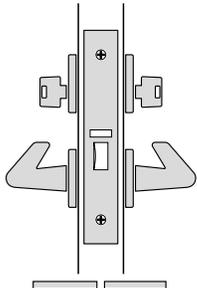
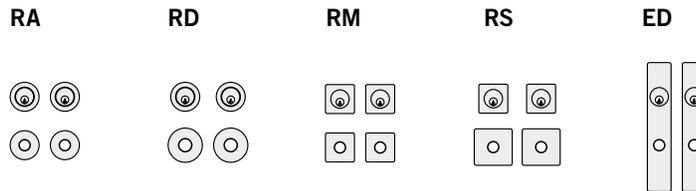
Description

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.

Premium and Elements Series Trim Sets



Transitions Series Trim Sets



Split Spindle

NML & NMT

Function G

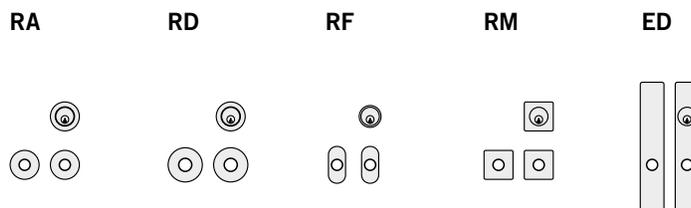
Classroom

ANSI Code F05

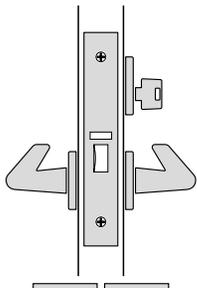
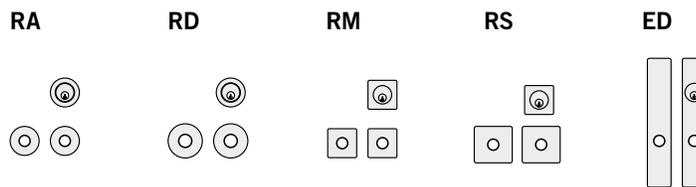
Description

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

Premium and Elements Series Trim Sets



Transitions Series Trim Sets



Split Spindle

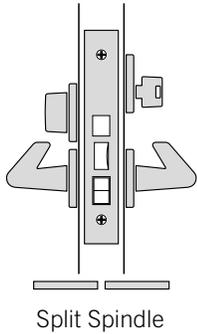
Narrow Mortise Locks

Series NML and NMT Functions

Function H

Entrance

ANSI Code F12



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



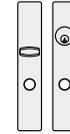
RD-S



RM-S



ED-S



RF-C



RA-D



RD-D



Transitions Series Trim Sets

RA-S



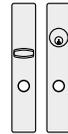
RD-S



RM-S



ED-S



RA-D



RD-D



RM-D



RS-D



Narrow Mortise Locks

Series NML and NMT Functions

Function I

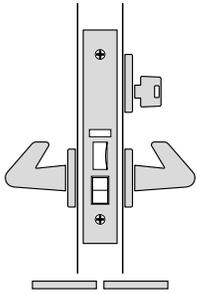
Office

ANSI Code F04

Description

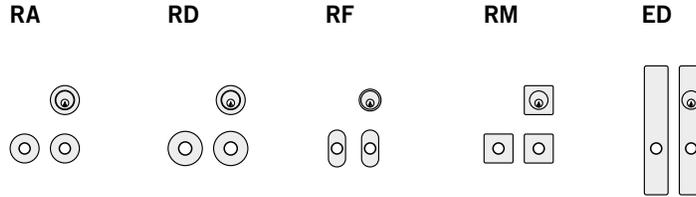
Latch bolt by key outside and handle either side unless outside handle is locked by toggle. Auxiliary latch deadlocks latch bolt.

NML & NMT

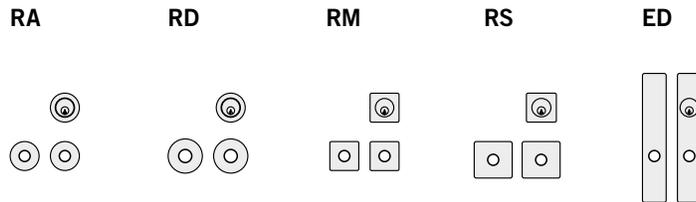


Split Spindle

Premium and Elements Series Trim Sets



Transitions Series Trim Sets



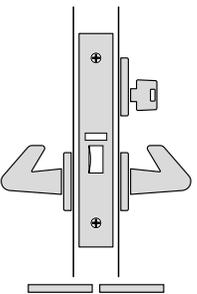
Function J

Storeroom

ANSI Code F07

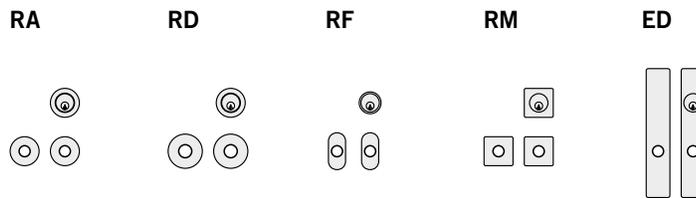
Description

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

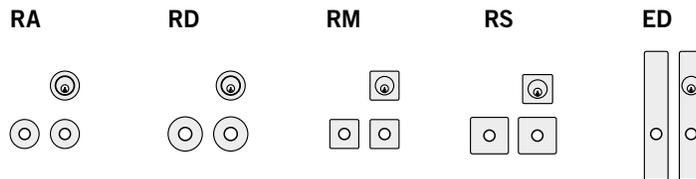


Split Spindle

Premium and Elements Series Trim Sets



Transitions Series Trim Sets



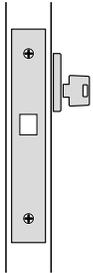
Narrow Mortise Locks

Series NML and NMT 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	ED

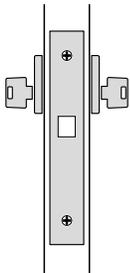
Transitions Series Trim Sets

RA	RD	RM	RS	ED

Function N Key x 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

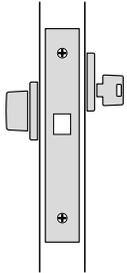
Key x Thumbturn
Deadlock

Description

Deadbolt by key outside and thumbturn inside.

ANSI Code F17

NML & NMT



Premium and Elements Series Trim Sets

RA-S



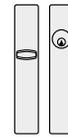
RD-S



RM-S



ED-S



RF-C



RA-D



RD-D



Transitions Series Trim Sets

RA-S



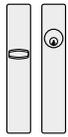
RD-S



RM-S



ED-S



RA-D



RD-D



RM-D



RS-D



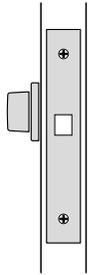
Narrow Mortise Locks

Series NML and NMT Functions

Function 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

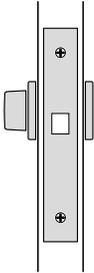
Function S

**Thumbturn Deadlock with
Emergency Release
(Privacy)**

Description

Deadbolt by thumbturn inside and emergency release outside.

NML & NMT



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

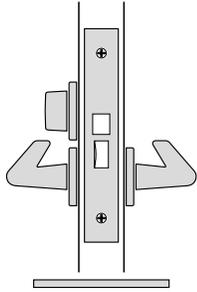
RA-SN/SI	RD-SN/SI	RM-SN/SI	ED-SN/SI
RA-DN/DI	RD-DN/DI	RM-DN/DI	RS-DN/DI

Narrow Mortise Locks

Series NML and NMT Functions

Function T

Patio

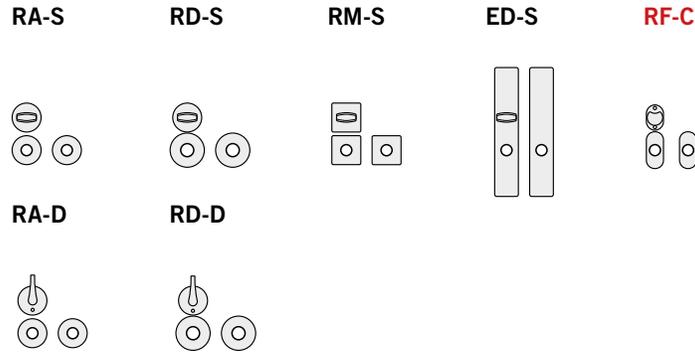


Solid Spindle

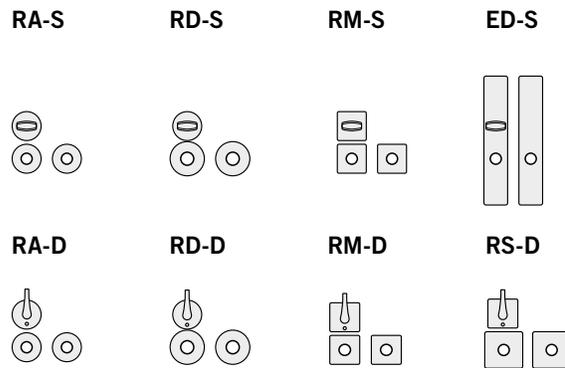
Description

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



Transitions Series Trim Sets

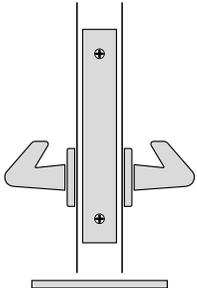


Narrow Mortise Locks

Series NML and NMT Functions

Function Y (Double Lever) Active Dummy Mortise Case

NML & NMT



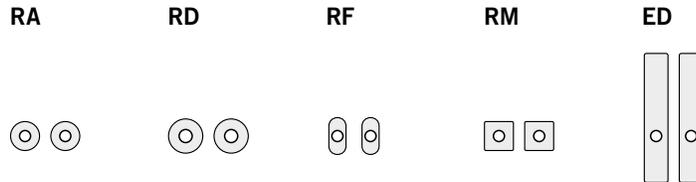
Straight Spindle

Description

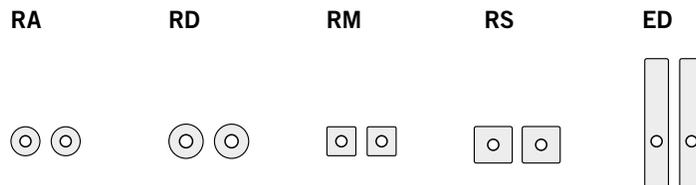
Active dummy handle either side.



Premium and Elements Series Trim Sets

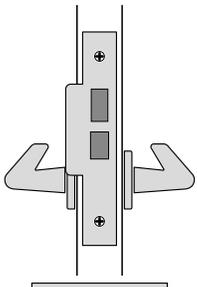


Transitions Series Trim Sets



Function YS (Double Lever) Active Dummy Mortise Case Prepared as Strike

For Pairs of Doors



Straight Spindle

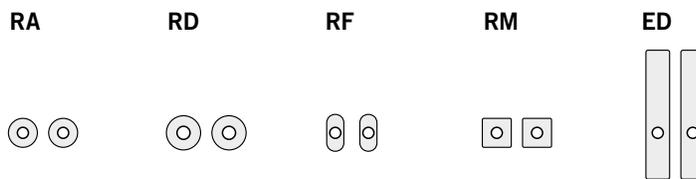
Description

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

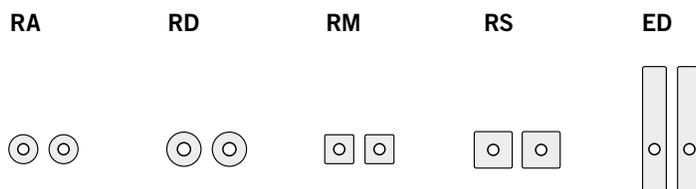
Strike regularly supplied with curved lip.
(ANSI Standard A 115.1)



Premium and Elements Series Trim Sets



Transitions Series Trim Sets

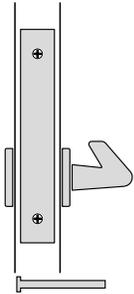


Narrow Mortise Locks

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

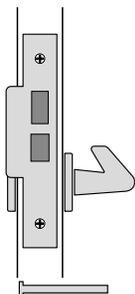
RA	RD	RF	RM	ED

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

NML & NMT



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		

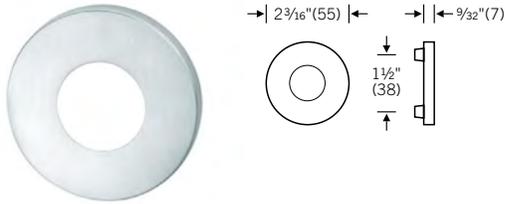
Round Lever Roses

Series NML and NMT

Premium, Elements & Transitions

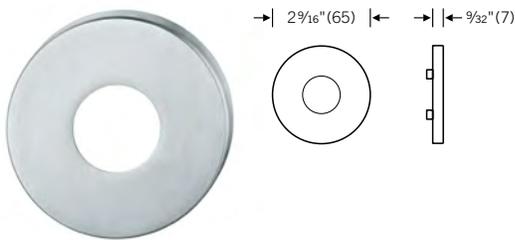
RA

17 1731 01401 
Rose 2³/₁₆" (55 mm)



RD

17 1798 02401 
Rose 2⁹/₁₆" (65 mm)



Cylinder Ring

17 1735 02601 



Cylinder must be ordered separately

NML & NMT

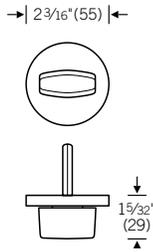
Thumbturns for RA 55mm & RD 65mm Roses

Series NML and NMT

S

17 1744 00169 
Standard Thumbturn

NML & NMT



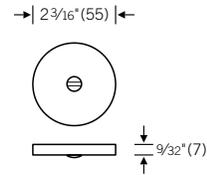
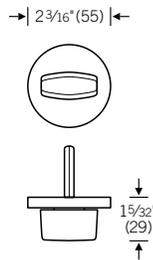
RA - Configuration
55mm S Thumbturn
55mm Lever Rose

RD - Configuration
55mm S Thumbturn
65mm Lever Rose

Standard Turn with Emergency Release (SN)

17 1744 00160 

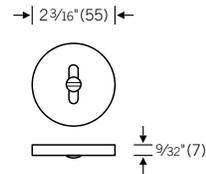
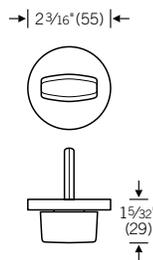
Trim Set - Includes two rose assemblies, spindle and screws



Standard Turn with Emergency Release and Indicator (SI)

17 1744 00159 

Trim Set - Includes two rose assemblies, spindle and screws

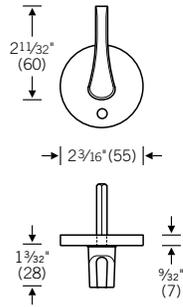


Thumbturns for RA 55mm & RD 65mm Roses

Series NML and NMT

D

17 1744 09169 
 ADA Thumbturn



RA - Configuration
 55mm D Thumbturn
 55mm Lever Rose



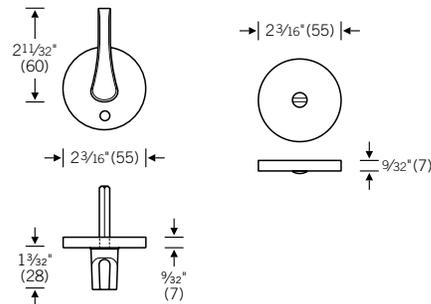
RD - Configuration
 55mm D Thumbturn
 65mm Lever Rose

NML & NMT

ADA Turn with Emergency Release (DN)

17 1744 09160 

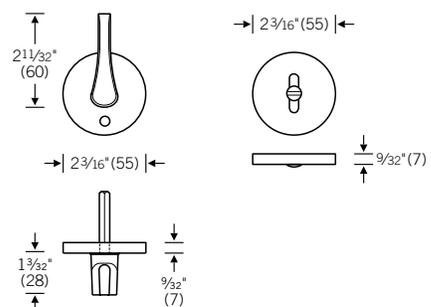
Trim Set - Includes two rose assemblies, spindle and screws



ADA Turn with Emergency Release and Indicator (DI)

17 1744 09159 

Trim Set - Includes two rose assemblies, spindle and screws



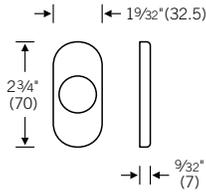
Trim Set RF Narrow Rose Series NML

Premium and Elements Only

RF

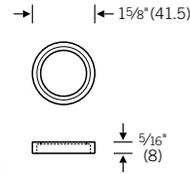
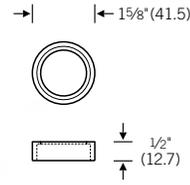
17 1758 00001 ■■■
Narrow Rose

NML & NMT



Cylinder Ring

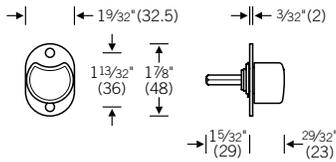
03 0450 09000 ■■■
03 0450 09001 ■■■



Cylinder must be ordered separately

C

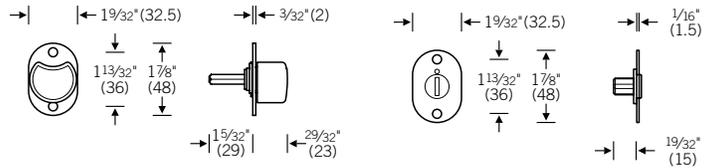
03 0418 09001 ■■■
Crescent Thumbturn



Crescent Turn with Emergency Release and Indicator (CI)

03 0418 09002 ■■■

Trim Set - Includes two rose assemblies, spindle and screws

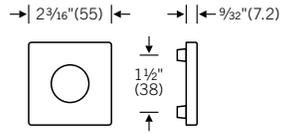


Square Lever Roses

Series NML and NMT

RM

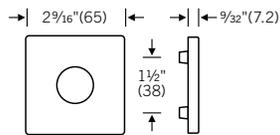
17 1703 01401 
Square Rose



Transitions Series NMT only

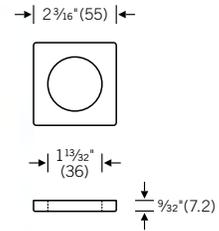
RS Designed to fit a 2 1/8" bore

17 1705 01401 
Square Rose



Cylinder Ring

17 1704 02601 



Cylinder must be ordered separately

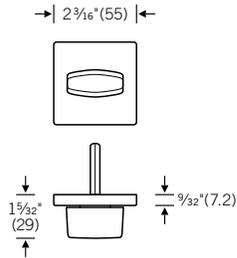
NML & NMT

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



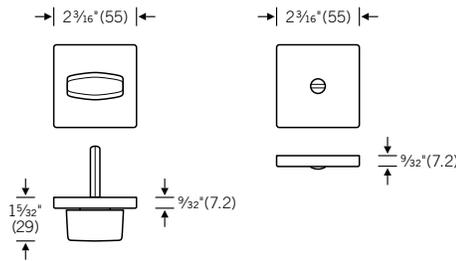
RS - Configuration
55mm S Thumbturn
65mm Lever Rose

NML & NMT

Standard Turn with Emergency Release (SN)

17 1712 00160 

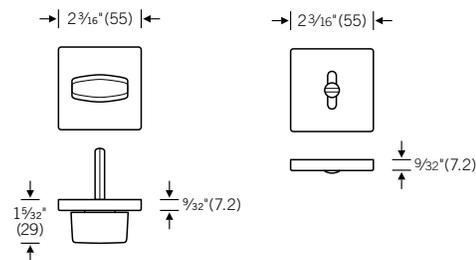
Trim Set - Includes two rose assemblies, spindle and screws



Standard Turn with Emergency Release and Indicator (SI)

17 1712 00159 

Trim Set - Includes two rose assemblies, spindle and screws

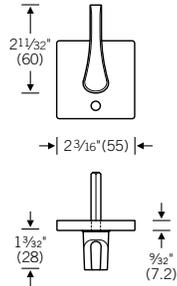


Thumbturns for RM 55mm & RS 65mm Square Roses Series NMT

Transitions Only

D

17 1712 09169 ■
ADA Thumbturn



RM - Configuration
55mm D Thumbturn
55mm Lever Rose

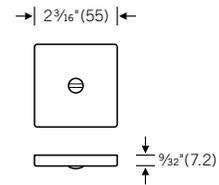
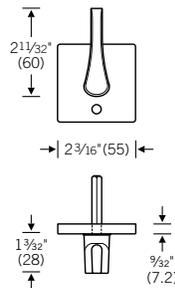


RS - Configuration
55mm D Thumbturn
65mm Lever Rose

ADA Turn with Emergency Release (DN)

17 1712 09160 ■ Transitions Series Only

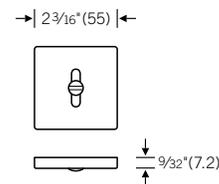
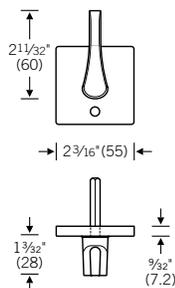
Trim Set - Includes two rose assemblies, spindle and screws



ADA Turn with Emergency Release and Indicator (DI)

17 1712 09159 ■ Transitions Series Only

Trim Set - Includes two rose assemblies, spindle and screws

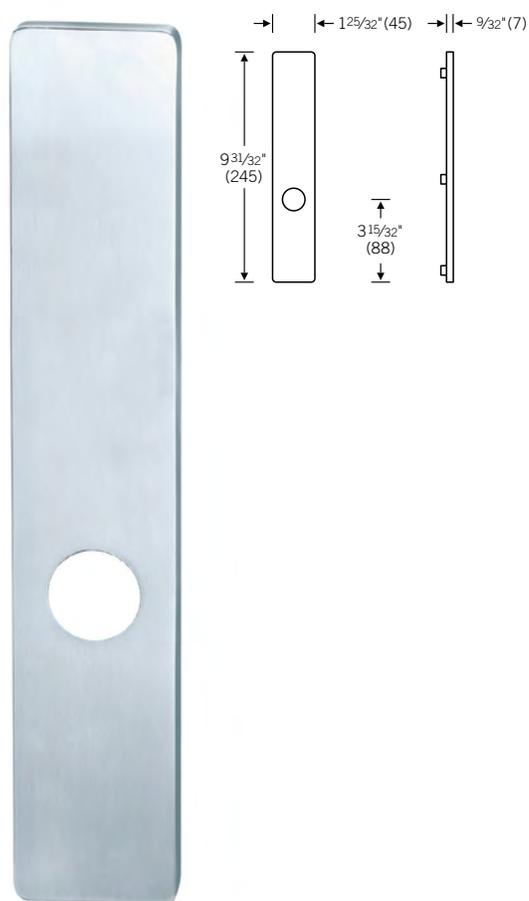


Trim Sets for ED Long Rectangular Escutcheon Plate Series NML and NMT

NML & NMT

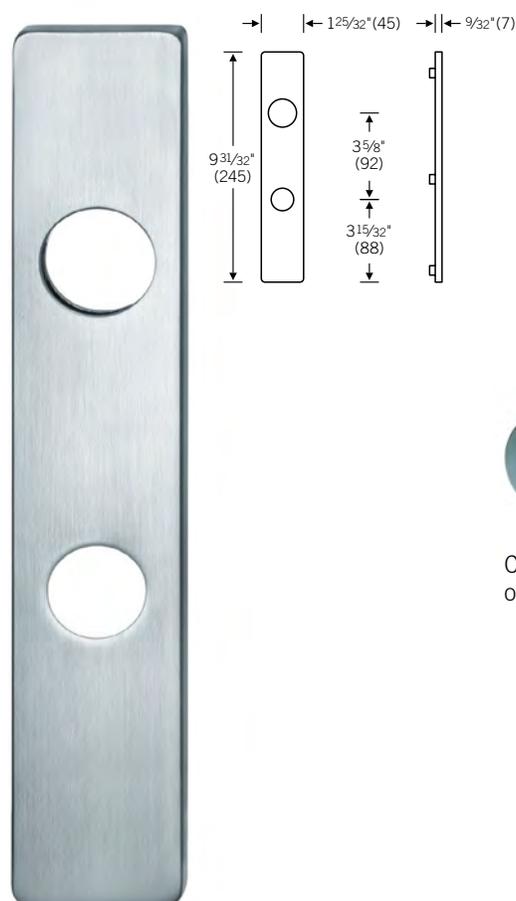
ED

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



Cylinder Hole

14 1410 09101 

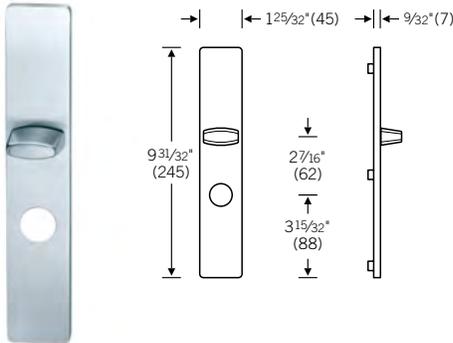


Cylinder must be ordered separately

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

S

14 1410 09102 
Standard Thumbturn

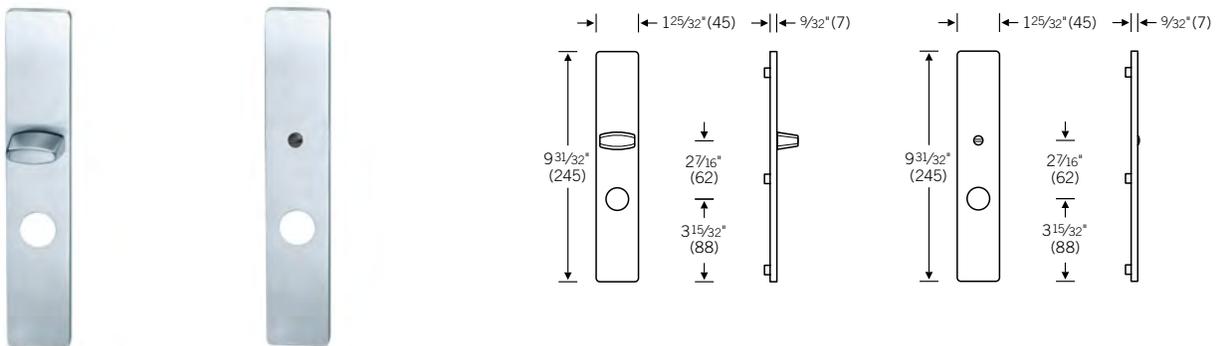


NML & NMT

Standard Turn with Emergency Release (SN)

14 1410 09103 

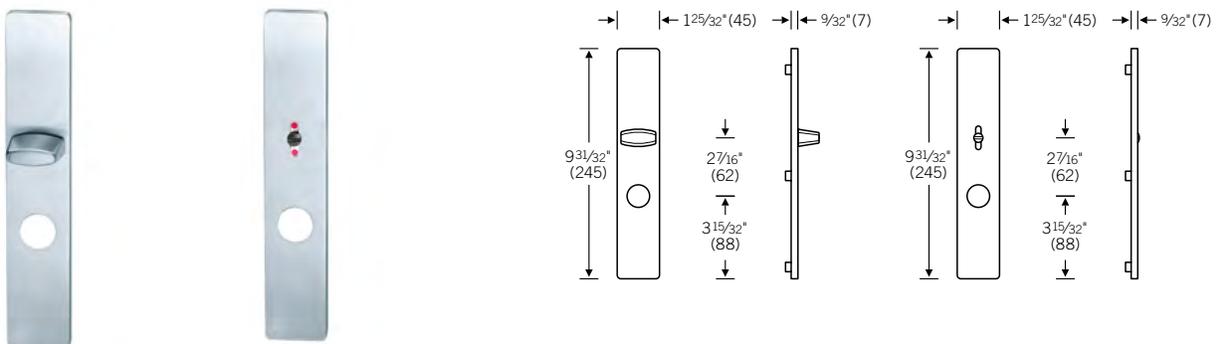
Trim Set - Includes two rose assemblies, spindle and screws



Standard Turn with Emergency Release and Indicator (SI)

14 1410 09113 

Trim Set - Includes two rose assemblies, spindle and screws



88 8806



→ | $\frac{1\frac{3}{8}''$ | ← → | x | ←
(35)



88 8806 07165 Length X = 1"
88 8806 07185 Length X = 1 $\frac{1}{8}$ "
88 8806 07205 Length X = 1 $\frac{1}{4}$ "
88 8806 07245 Length X = 1 $\frac{1}{2}$ "
88 8806 07285 Length X = 1 $\frac{3}{4}$ "
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" x 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

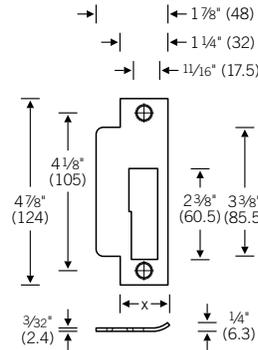
Cam Types

- 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.	1 $\frac{3}{8}$ "	1"	88 8806 7165sc19	N/A	N/A
	1 $\frac{3}{4}$ "	1 $\frac{1}{8}$ "	88 8806 7185sc19	1"	88 8806 7165sc19
	2"	1 $\frac{1}{4}$ "	88 8806 7205sc19	1 $\frac{1}{8}$ "	88 8806 7185sc19
	2 $\frac{1}{4}$ "	1 $\frac{1}{4}$ "	88 8806 7205sc19	1 $\frac{1}{8}$ "	88 8806 7185sc19
	2 $\frac{3}{8}$ "	1 $\frac{1}{2}$ "	88 8806 7245sc19	Call	
	3"	1 $\frac{1}{4}$ "	88 8806 7285sc19	Call	
	3 $\frac{1}{4}$ "	1 $\frac{7}{8}$ "	88 8806 7305sc19	Call	
	3 $\frac{1}{2}$ "	2"	88 8806 7325sc19	Call	
Escutcheons	1 $\frac{3}{8}$ "	N/A	N/A	N/A	N/A
	1 $\frac{3}{4}$ "	1 $\frac{1}{4}$ "	88 8806 7205sc19	1 $\frac{1}{8}$ "	88 8806 7185sc19
	2"	1 $\frac{1}{4}$ "	88 8806 7205sc19	1 $\frac{1}{8}$ "	88 8806 7185sc19
	2 $\frac{1}{4}$ "	1 $\frac{1}{2}$ "	88 8806 7245sc19	1 $\frac{1}{4}$ "	88 8806 7205sc19
	2 $\frac{3}{8}$ "	1 $\frac{3}{4}$ "	88 8806 7285sc19	Call	
	3"	1 $\frac{7}{8}$ "	88 8806 7305sc19	Call	
	3 $\frac{1}{4}$ "	2"	88 8806 7325sc19	Call	

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

Narrow Mortise Locks Strikes



NML 1001

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

Standard **N1** = 1 1/4" (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

NML & NMT

Mortise Strike Number	Lip To Center Dimension (x)	Typical Door Thickness*	ANSI Strike Type
N1	1 1/4"	1 3/8" - 1 3/4"	Curved Lip (Std.)
N2	1 1/8"	1 1/2"	Curved Lip
N3	1 3/8"	2"	Curved Lip
N4	1 1/2"	2 1/4"	Curved Lip
N5	1 3/4"	2 3/4"	Curved Lip
N6	2"	3 1/4"	Curved Lip
N7	2 1/4"	3 1/4"	Curved Lip
N8	2 1/2"	4 1/4"	Curved Lip
N9	2 3/4"	4 3/4"	Curved Lip
N10	3"	5 1/4"	Curved Lip
N11	1 3/4"	2 3/4"	Open Back
N12	2"	3 1/4"	Open Back
N13	2 1/4"	3 1/4"	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 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

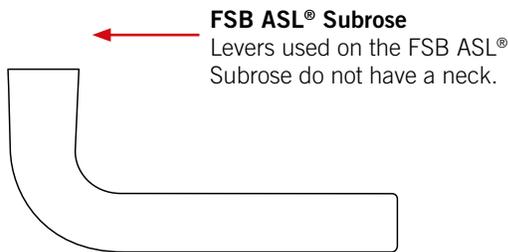
Fastening by means of through-fixed bolting with retention lugs and machine screws.

Solid spindle

The 8 mm solid spindle caters to standard door thicknesses from 1 3/8 to 2 1/4 inches.

Availability

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



FSB Original Subrose

Product variants

- Roses RA, RD, RF, RM and ED escutcheons

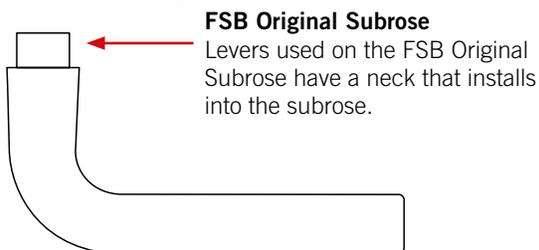
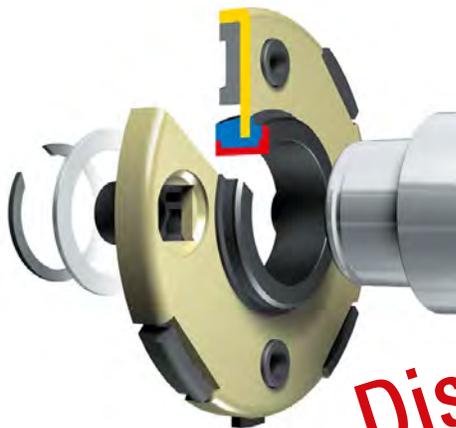
Fasteners

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

Spindle

Solid and styl spindles depending on lock type and function.

Discontinued





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 1 3/8" 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.

EML

All details subject to modification

Specifying Locksets

European Mortise Locks (EML)

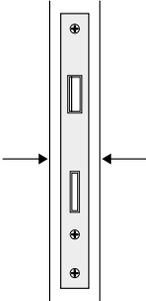
EML

Lock Type	Lock Function	Lever Design	Trim Set	Thumbturn and Indicator																																																				
EML	<p>E</p> <p>Insert your choice of function using one of the letter codes below</p> <p>A Store Door B Dormitory C Passage E Privacy</p> <p>European Mortise Locks do not have Emergency Egress Function.</p>	<p>1147</p> <p>Insert your choice of lever design using one of the four digit codes.</p> <p>Premium/Elements</p> <table border="0"> <tr><td>1001*</td><td>1078</td></tr> <tr><td>1002*</td><td>1080</td></tr> <tr><td>1003</td><td>1088</td></tr> <tr><td>1004</td><td>1093</td></tr> <tr><td>1005</td><td>1102</td></tr> <tr><td>1015</td><td>1106</td></tr> <tr><td>1016</td><td>1107</td></tr> <tr><td>1020*</td><td>1108</td></tr> <tr><td>1021</td><td>1119</td></tr> <tr><td>1023</td><td>1134</td></tr> <tr><td>1025</td><td>1144</td></tr> <tr><td>1027</td><td>1146</td></tr> <tr><td>1028</td><td>1147</td></tr> <tr><td>1031</td><td>1160</td></tr> <tr><td>1034*</td><td>1163</td></tr> <tr><td>1035</td><td>1164</td></tr> <tr><td>1045</td><td>1176</td></tr> <tr><td>1051*</td><td>1177</td></tr> <tr><td>1053</td><td>1178</td></tr> <tr><td>1057</td><td>1183</td></tr> <tr><td>1058</td><td>1185*</td></tr> <tr><td>1070</td><td>1241*</td></tr> <tr><td>1074</td><td>1251^</td></tr> <tr><td>1075</td><td>1257*</td></tr> <tr><td>1076</td><td>1259*</td></tr> <tr><td>1077*</td><td></td></tr> </table> <p>^ Stainless Only * Elements Only</p>	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*		<p>RA</p> <p>Insert your choice of rose or escutcheon using one of the two digit codes.</p> <p>Premium/Elements</p> <p>RA Rose 2³/₁₆" (55 mm) RF Narrow Rose RJ Flush Rose (55 mm) RM Square Rose (55 mm) ED Long Rectangular</p> <p>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.</p>	<p>SN*</p> <p>Insert your choice of thumbturn and indicator if necessary using the codes provided.</p> <p>Premium, Elements</p> <p> Standard thumbturn available with roses and escutcheons S</p> <p>Premium, Elements Emergency Releases</p> <p> N  I</p> <p>* Thumbturn and/or Indicator choices are only necessary with the B and E lock functions.</p>
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*																																																								

All details subject to modification

Example for Specifying

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

Material and Finish	Backset	Strike	Handing	Door Thickness
<p>6204</p> <p>Insert your choice of material and finish using one of the codes below.</p> <p>Premium Stainless Steel</p> <ul style="list-style-type: none"> ■ 6204 Satin (630) ■ 6205 Polished (629) <p>Bronze</p> <ul style="list-style-type: none"> ■ 7305 Polished, Waxed (611) ■ 7615 Aged, Waxed (615) ■ 7625 Dark Oxidized, Waxed (613) <p>Elements Aluminum Anodized</p> <ul style="list-style-type: none"> ■ 0105 Natural Color (628) ■ 0205 Champagne Silver Color ■ 0410 Bronze Color ■ 0510 Medium Bronze Color ■ 0710 Dark Bronze Color (710) ■ 0810 Black Color (711) <p>Aluminum Powder Coated</p> <ul style="list-style-type: none"> ■ 8120 Black (671) □ 8220 White (714) <p>Note: EML mortise lock scalp only comes in stainless steel.</p>	<p>231</p> <p>Standard 231 2³/₁₆" Backset (55 mm)</p> <p>Other backsets available by quote.</p>	<p>E1</p> <p>Insert your choice of strike using one of the two letter codes below</p> <p>Standard E1</p> <p>Special Order E2</p>	<p>RH</p> <p>Insert your choice of hand using one of the two letter codes below</p> <p>RH Right Hand RR Right Hand Reverse</p> <p>LH Left Hand LR Left Hand Reverse</p>	<p>134</p> <p>Insert your choice of door thickness using one of the three digit codes.</p> <p>Standard 134 1³/₄" 138 1⁵/₈"</p> <p>Special Order 200 2" 214 2¹/₄"</p> <p>All sizes over 2¹/₄" thick please consult FSB.</p> 

All details subject to modification

EML

European Mortise Locks

Series EML Functions

EML



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

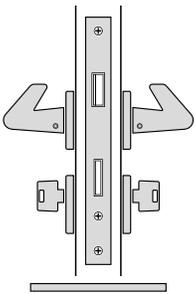
Store Door

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



Solid Spindle

RA



RF



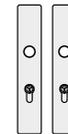
RM



RJ



ED



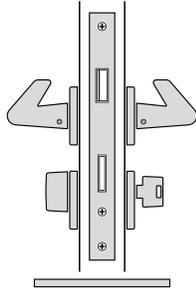
All details subject to modification

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



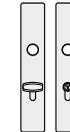
RM-S



RJ-S



ED-S

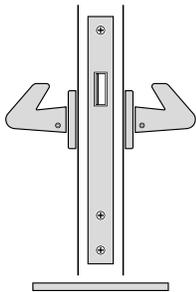


RF-C



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



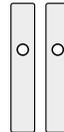
RM



RJ

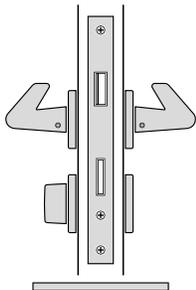


ED



Function E

Privacy



Straight Spindle

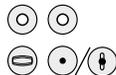
Description

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.

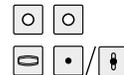
Lever to thumbturn center-to-center:
3 1/16" (78 mm).

Premium and Elements Series Trim Sets

RA-SN/SI



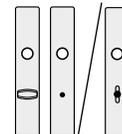
RM-SN/SI



RJ-SI



ED-SN/SI



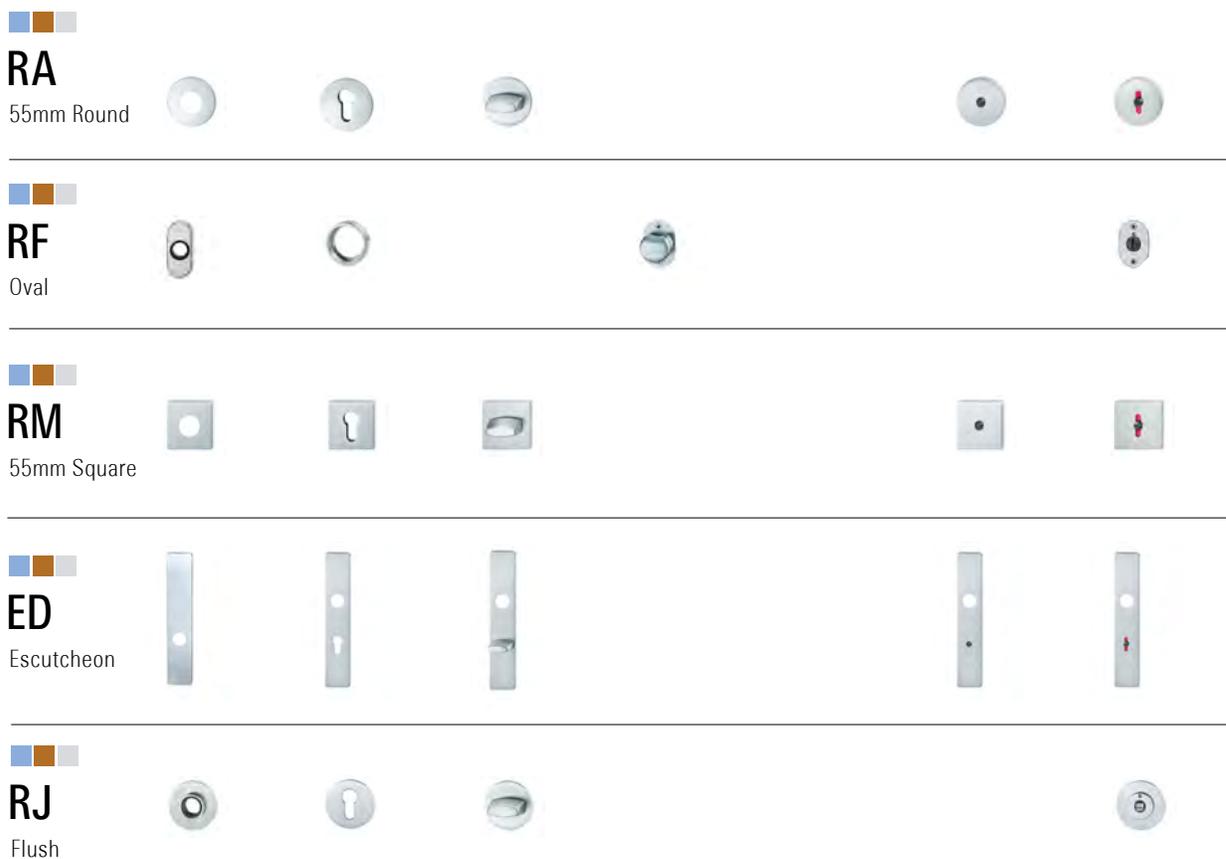
RF-CI



Trim Set Overview

Series EML

EML



Materials and Finishes

Premium

■ Stainless Steel

■ Bronze

■ 6204 (630)

■ 7305 (611)

■ 6205 (629)

■ 7615 (615)

■ 7625 (613)

Elements

■ Aluminum

■ 0105 (628)

■ 0205

■ 0410

■ 0510

■ 0710 (710)

■ 0810 (711)

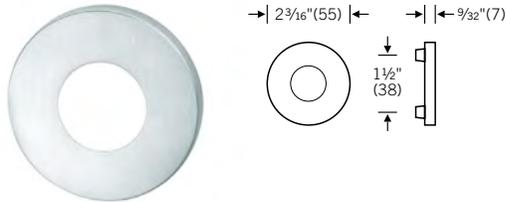
□ Powder Coated

Round and Narrow Lever Roses Series EML

Premium & Elements

RA

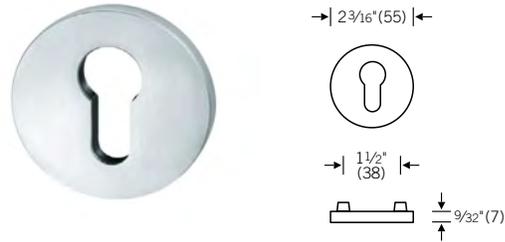
12 1731 00101 
Rose 2³/₁₆" (55 mm)



Cylinder Ring

17 1735 00210 

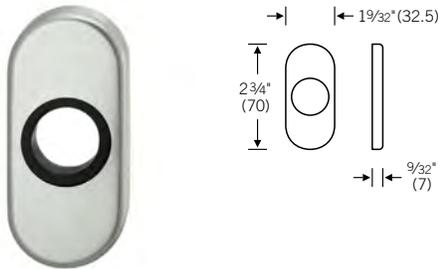
Trim Set - Includes two rose assemblies and screws



Cylinder must be ordered separately

RF

17 1758 00001 



Cylinder Ring

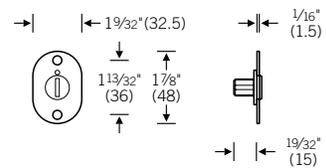
17 1757 00010 



Cylinder must be ordered separately

I

Emergency Release with Indicator



Set with Crescent Thumbturn (CI) 03 0418 09002

EML

Thumbturns for RA 55mm Rose Series EML

S

17 1735 00210 
Standard Thumbturn

EML



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)

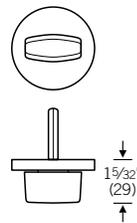
12 1735 x0054 

Trim Set - Includes two rose assemblies, spindle and screws

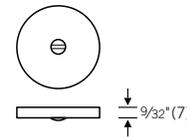
12 1735 10054 = 1 3/8" - 2" Door Thickness
12 1735 20054 = 2 1/8" - 2 3/4" Door Thickness
12 1735 30054 = 2 7/8" - 3 3/4" Door Thickness



→ 2 3/16" (55) ←



→ 2 3/16" (55) ←



Standard Turn with Emergency Release and Indicator (SI)

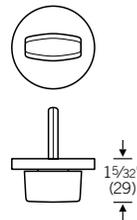
12 1735 x0055 

Trim Set - Includes two rose assemblies, spindle and screws

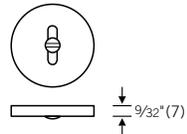
12 1735 10054 = 1 3/8" - 2" Door Thickness
12 1735 20054 = 2 1/8" - 2 3/4" Door Thickness
12 1735 30054 = 2 7/8" - 3 3/4" Door Thickness



→ 2 3/16" (55) ←



→ 2 3/16" (55) ←



All details subject to modification

Thumbturns for RM 55mm Square Rose Series EML

S

17 1703 00210 
Standard Thumbturn



RM - Configuration
55mm S Thumbturn
55mm Lever Rose

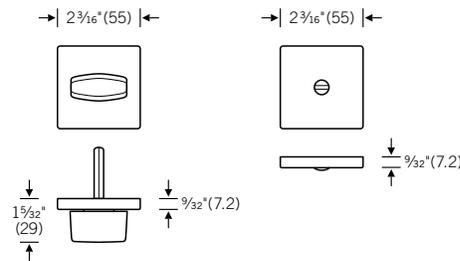
RS - Configuration
55mm S Thumbturn
65mm Lever Rose

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

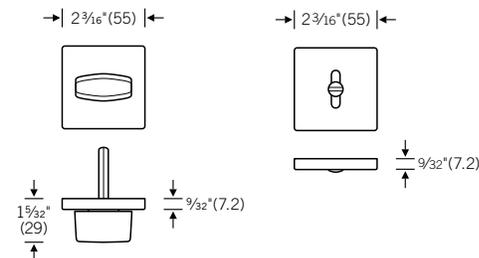


Standard Turn with Emergency Release and Indicator (SI)

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

EML

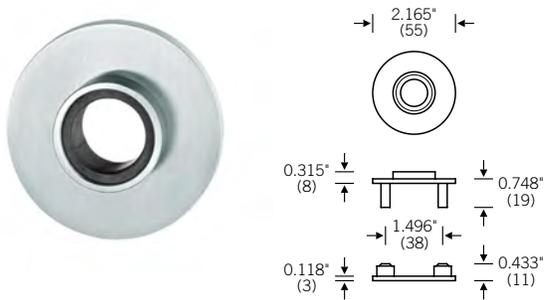
Trim Set RJ Flush Rose European Mortise Locks (EML)

EML

RJ

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

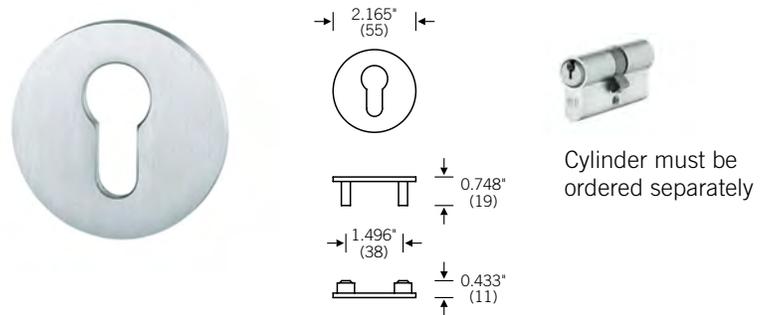
Trim only sold in Sets
(Includes two rose assemblies, spindle and screws)



Cylinder Ring

17 1737 09002 ■■■
0.118 × 2.165" (3 × 55 mm)

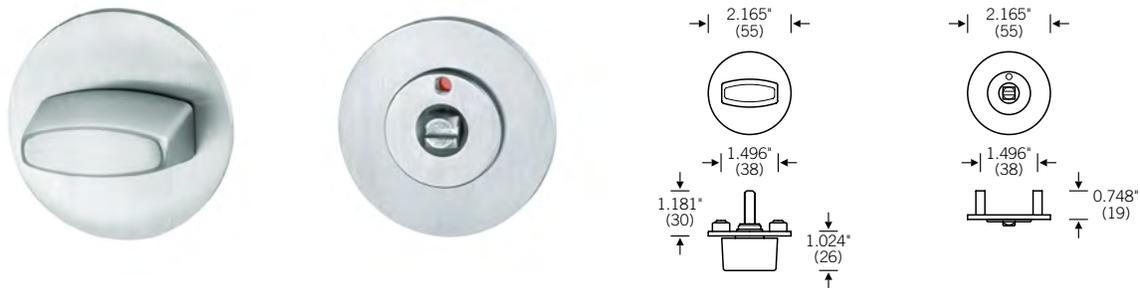
Trim only sold in Sets
(Includes two rose assemblies, spindle and screws)



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 1 3/4" 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

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

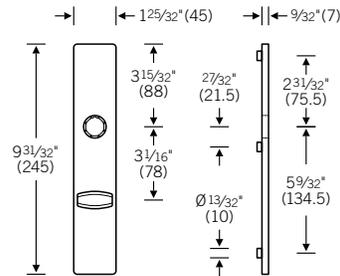
S



Standard Thumbturn



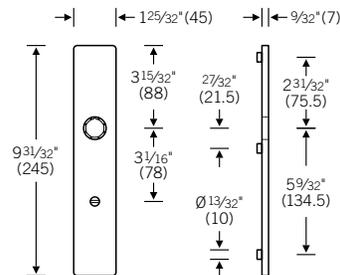
Cylinder must be ordered separately



Standard Turn with Emergency Release (SN)

14 1410 08055

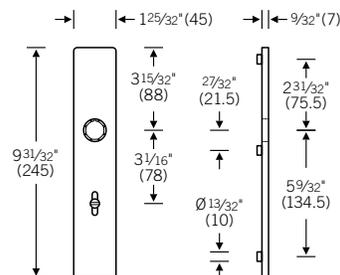
Trim Set - Includes two rose assemblies, spindle and screws



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

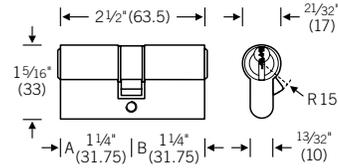
European Profile Cylinder (PZ)

88 8812 00064 ■■
 88 8812 00070 ■■



88 8812 00064 = 63.5 mm for 1 3/8" – 1 3/4" door thickness
 88 8812 00070 = 71 mm for 2 – 2 1/4" door thickness

Key x Key

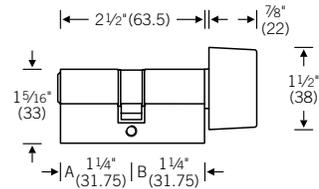


88 8812 00164 ■■
 88 8812 00170 ■■



88 8812 00164 = 63.5 mm for 1 3/8" – 1 3/4" door thickness
 88 8812 00170 = 71 mm for 2 – 2 1/4" door thickness

Key x Thumbturn (Standard)

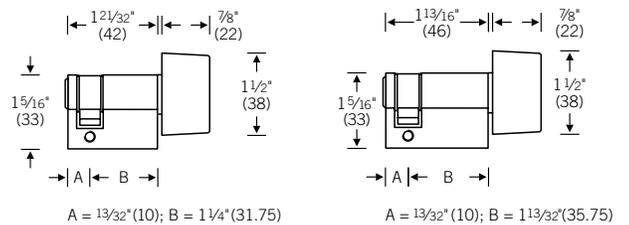


88 8812 00230 ■■
 88 8812 00235 ■■



88 8812 00230 = 42 mm Cylinder Length (1 21/32") for 1 3/8" – 1 3/4" door thickness
 88 8812 00235 = 46 mm Cylinder Length (1 13/16") for 2 – 2 1/4" door thickness

1/2 Cylinder Thumbturn (Standard) only



All details subject to modification

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

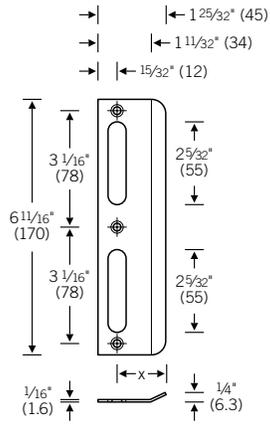
Thumbturn and Finishes

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



Premium & Elements Series - EML Strikes

EML



EML 1001

EML Series Mortise Strike without dustbox

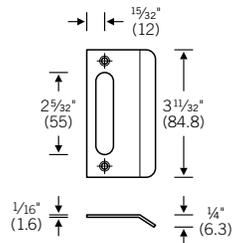
Entry/Privacy Functions

Standard = $1\frac{5}{16}''$ (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

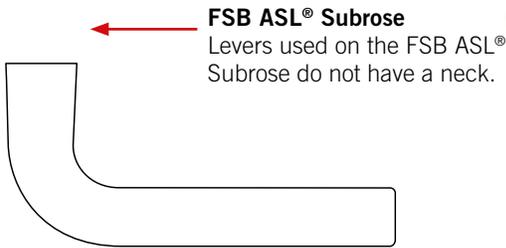
Fastening by means of through-fixed bolting with retention lugs and machine screws.

Solid spindle

The 8 mm solid spindle caters to standard door thicknesses from 1 3/8 to 2 1/4 inches.

Availability

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



FSB Original Subrose

Product variants

- Roses RA, RD, RF, RM and ED escutcheons

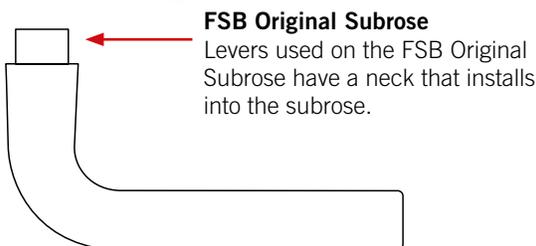
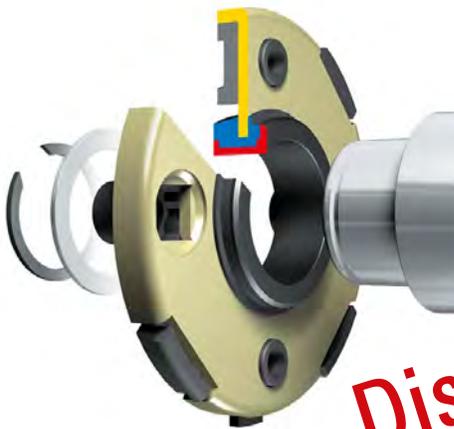
Fasteners

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



All details subject to modification

EML

European Mortise Locks

Suggested Specification

EML

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)

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

Latch

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

Deadbolt

.315" \times 1.38" (8 \times 35 mm) \times .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.

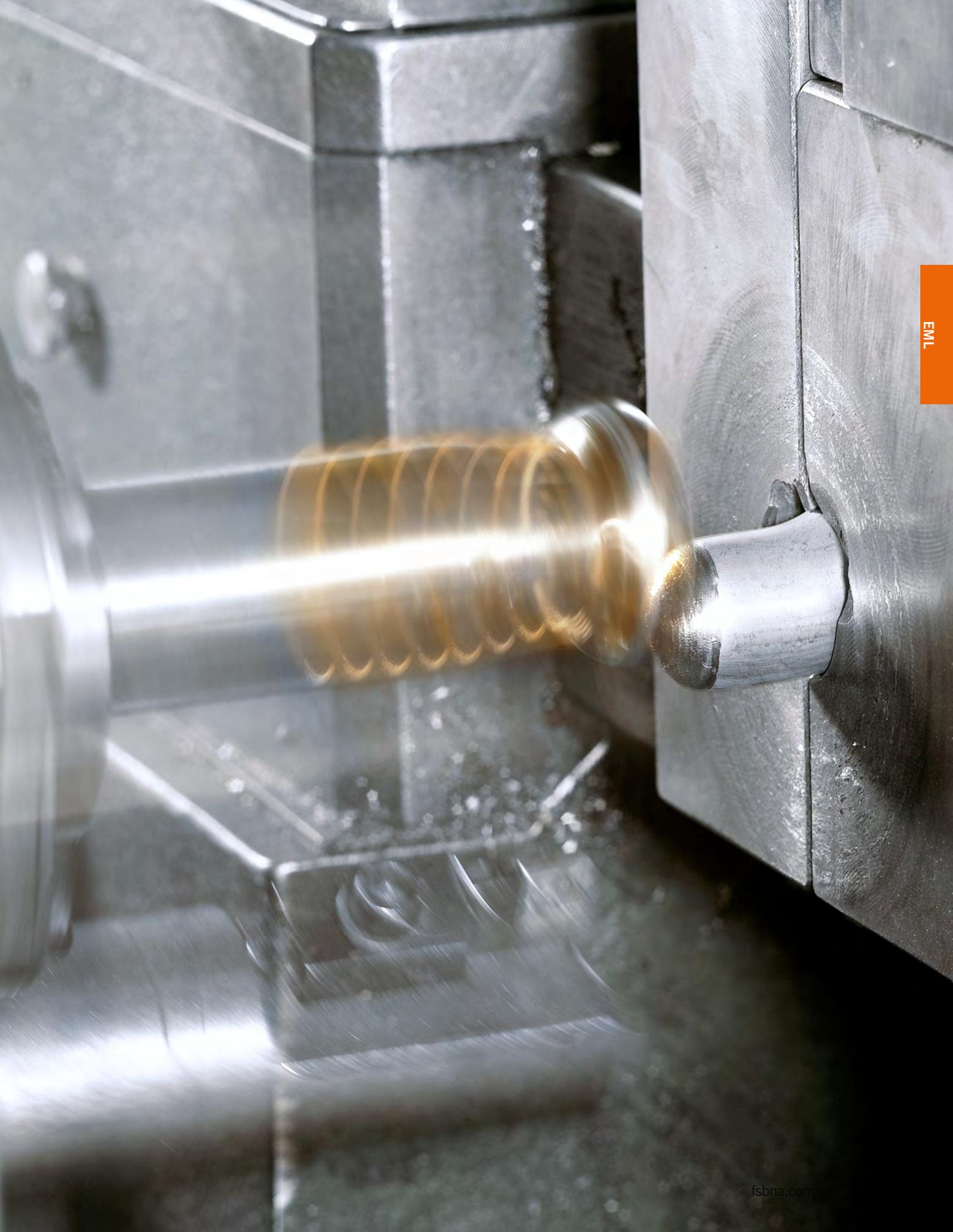
Strike

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.

Specifying Tubular Latch Sets

(HLL) Available with Premium and Elements Series Trim

(HLT) Available with Transitions Series Trim

Lock Type	Lock and Latch Function	Lever Design	Trim Set																																																			
<p>HLL</p> <p>Insert your choice of Lock Type.</p> <p>HLL Premium Elements</p>	<p>C</p> <p>Insert your choice of function using one of the letter codes below</p> <p>CU UL Passage C Passage E Privacy</p> <p>Y Fixed Back to Back Z Fixed Single</p>	<p>1147</p> <p>Insert your choice of lever design using one of the four digit codes.</p> <p>Premium/Elements</p> <table border="0"> <tr><td>1001*</td><td>1051*</td><td>1119</td></tr> <tr><td>1002*</td><td>1053^</td><td>1134</td></tr> <tr><td>1003+</td><td>1057^</td><td>1144</td></tr> <tr><td>1004</td><td>1058</td><td>1146</td></tr> <tr><td>1005</td><td>1070</td><td>1147</td></tr> <tr><td>1015^</td><td>1074+</td><td>1160</td></tr> <tr><td>1016</td><td>1075</td><td>1163^</td></tr> <tr><td>1020*</td><td>1076</td><td>1164</td></tr> <tr><td>1021</td><td>1077*</td><td>1176</td></tr> <tr><td>1023^</td><td>1078</td><td>1177</td></tr> <tr><td>1025</td><td>1080</td><td>1178</td></tr> <tr><td>1027</td><td>1088</td><td>1183+</td></tr> <tr><td>1028</td><td>1093</td><td>1185*</td></tr> <tr><td>1031</td><td>1102</td><td>1241*</td></tr> <tr><td>1034*</td><td>1106^</td><td>1251</td></tr> <tr><td>1035</td><td>1107</td><td>1257*</td></tr> <tr><td>1045</td><td>1108</td><td>1259*</td></tr> </table> <p>^ 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</p>	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*	<p>RA</p> <p>Insert your choice of rose or escutcheon using one of the letter codes.</p> <p>Premium/Elements</p> <p>RA Rose 2³/₁₆" (55 mm) RD Rose 2⁹/₁₆" (65 mm) RF Narrow Rose RJ Flush Rose (55 mm) RM Square Rose (55 mm) RS Square Rose* 2⁹/₁₆" (65 mm) (Covers 2 1/8" bore) ED Long Rectangular</p> <p>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</p>
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*																																																				
<p>HLT</p> <p>Transitions</p>		<p>Transitions</p> <table border="0"> <tr><td>1035</td><td>1250</td></tr> <tr><td>1058</td><td>1251</td></tr> <tr><td>1075</td><td>1252</td></tr> <tr><td>1076</td><td>1253</td></tr> <tr><td>1241</td><td></td></tr> </table>	1035	1250	1058	1251	1075	1252	1076	1253	1241		<p>Transitions</p> <p>RA Hard Edge Rose 2³/₁₆" (55 mm) RD Rose 2⁹/₁₆" (65 mm) (Covers 2 1/8" bore) RM Square Rose 2³/₁₆" (55 mm) RS Square Rose 2⁹/₁₆" (65 mm) (Covers 2 1/8" bore) ED Long Rectangular</p>																																									
1035	1250																																																					
1058	1251																																																					
1075	1252																																																					
1076	1253																																																					
1241																																																						

HLL & HLT

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** 2³/₈" Backset
- 234** 2³/₄" 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.

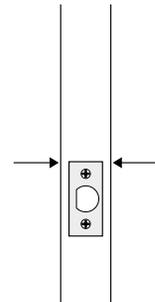
Standard

- 134** 1³/₄"
- 138** 1³/₈"

Special Order

- 200** 2"
- 214** 2¹/₄"

All sizes over 2¹/₄" thick please consult FSB.



HLL & HLT

Heavy Duty Lever Latch

Series HLL and HLT Functions

HLL & HLT



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 mini-
mum 1 3/8" (35 mm) door thickness.

Faceplate width 1 1/8" (28.5 mm) optional.

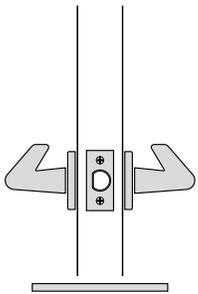
CU Function comes with 1 1/8" (28.5 mm)
width as standard.

Function CU

UL Rated Passage

Description

Latch bolt by handle either side.



Solid Spindle

Premium and Elements Series Trim Sets

RA



RD



RF



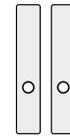
RM



RJ



ED



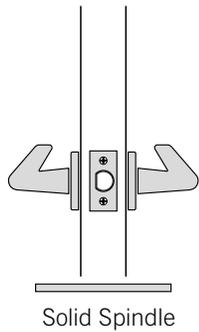
All details subject to modification

Heavy Duty Lever Latch

Series HLL and HLT Functions

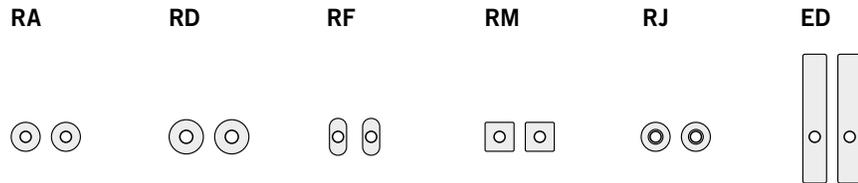
Function C

Passage

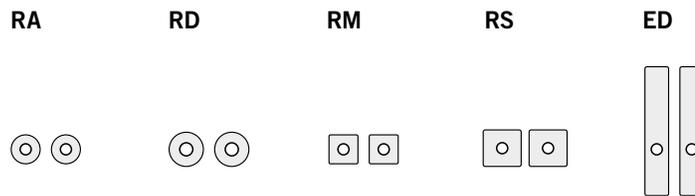


Description
Latch bolt by handle either side.

Premium and Elements Series Trim Sets



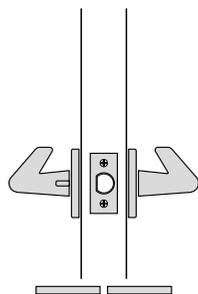
Transitions Series Trim Sets



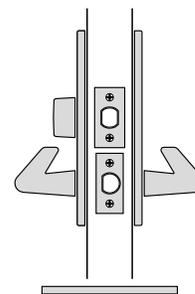
HLL & HLT

Function E

Privacy

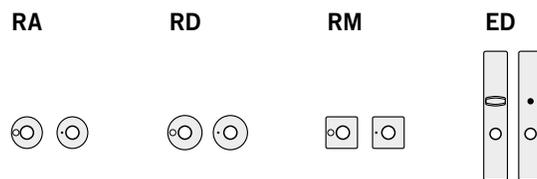


Description
Latch bolt by handle either side. Outside handle locked by push button inside. Outside handle unlocked by retracting inside handle, emergency release tool, or closing the door.



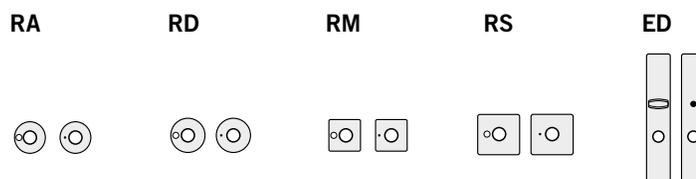
Description
Latch bolt by handle either side. Deadbolt by thumbturn inside and emergency release outside.

Premium and Elements Series Trim Sets



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



All details subject to modification

Heavy Duty Lever Latch

Series HLL and HLT Functions

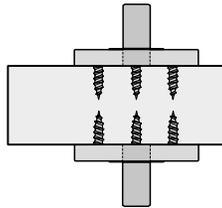
Function Y

Fixed Back to Back Dummy

Trim Sets

RA

RM



Surface mounted subroses.

05 0423 00402



Set includes two dummy mount subroses, one pair of 2³/₁₆" (55 mm) roses and two levers.

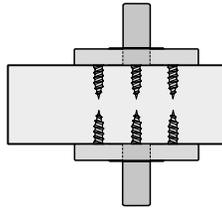
Trim Sets

RD

RS



For Elements and Transitions Series only



Surface mounted subroses.

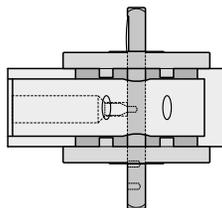
05 0423 00701



Set includes two dummy mount subroses, one pair of 2⁹/₁₆" (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 1³/₄"

Heavy Duty Lever Latch

Series HLL and HLT Functions

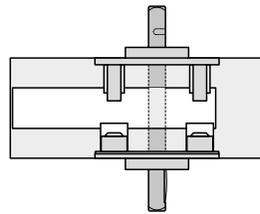
Function Y

Fixed Back to Back Dummy

Trim Sets

05 0423 00110

RJ



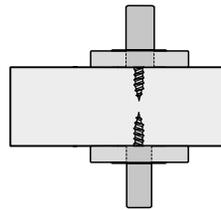
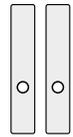
Through bolted mounting with 3/4" Ø borehole.

Set includes one mount bar, one straight spindle, one pair of 2 3/16" (55 mm) flush roses and two levers. Supplied with blank faceplate to cover edge borehole.

Trim Sets

05 0423 00800

ED



Surface mounted subplates.



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

All details subject to modification

HLL & HLT

Heavy Duty Lever Latch

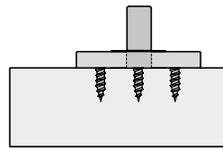
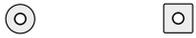
Series HLL and HLT Functions

Function Z

Fixed Single Dummy

Trim Sets

RA **RM**



05 0423 00402



Surface mounted subrose.

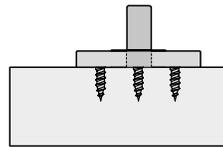
Set includes one dummy mount subrose, one 2³/₁₆" (55 mm) rose, and one lever.

Trim Sets

RD **RS**



For Elements and Transitions Series only



05 0423 00701

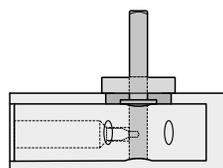


Surface mounted subrose.

Set includes one dummy mount subrose, one 2³/₁₆" (65 mm) rose and one lever.

Trim Sets

RF



05 0423 00500



Single sided with 1" Ø edge borehole.

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 1³/₄"

Heavy Duty Lever Latch

Series HLL and HLT Functions

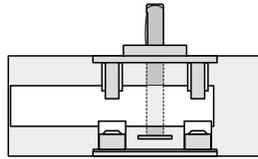
Function Z

Fixed Single Dummy

Trim Sets

05 0423 00110

RJ



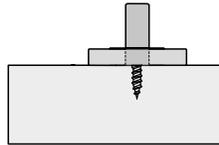
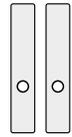
Single sided with $\frac{3}{4}$ " \varnothing edge borehole and blank rose.

Set includes one mount bar, one half spindle, one pair of $2\frac{3}{16}$ " (55 mm) flush roses and two levers. Supplied with blank faceplate to cover edge borehole.

Trim Sets

05 0423 00800

ED



Surface mounted subplate.



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

All details subject to modification

HLL & HLT

Trim Set Roses

Series HLL and HLT

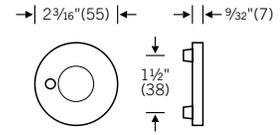
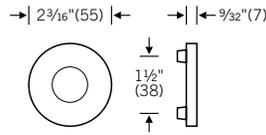
Set with
privacy pin



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)

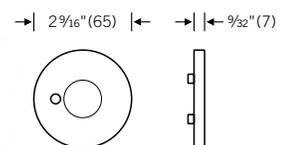
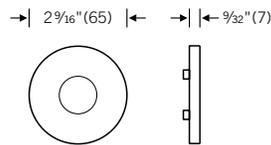


RD

Designed to fit a 2 1/8" bore

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

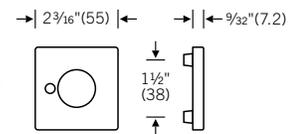
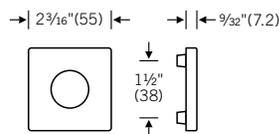
17 1798 00154 Right Hand
17 1798 00155 Left Hand
Privacy Roses 2 9/16" (65 mm)



RM

17 1703 01401 ■ ■ ■
Square Rose

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

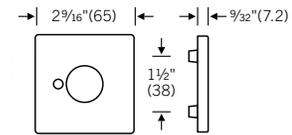
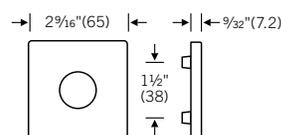


RS

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)



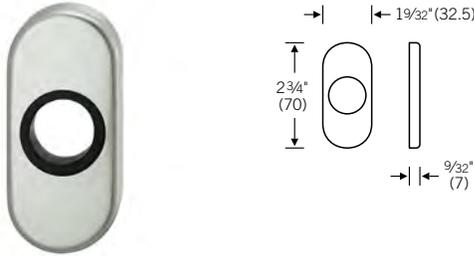
All details subject to modification

Trim Sets Escutcheon Plates

Series HLL and HLT

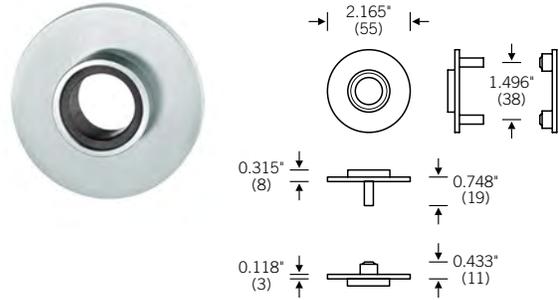
RF

17 1758 00001 ■ ■
Narrow Rose



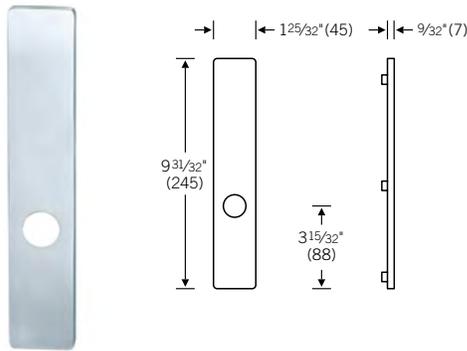
RJ

17 1736 09011 ■ ■ ■
0.118 × 2.165" | 3 × 55 mm, 1 3/4" door thickness only.
Levers 1051, 1058, 1163, 1164, 1241 not available with RJ trim.



ED

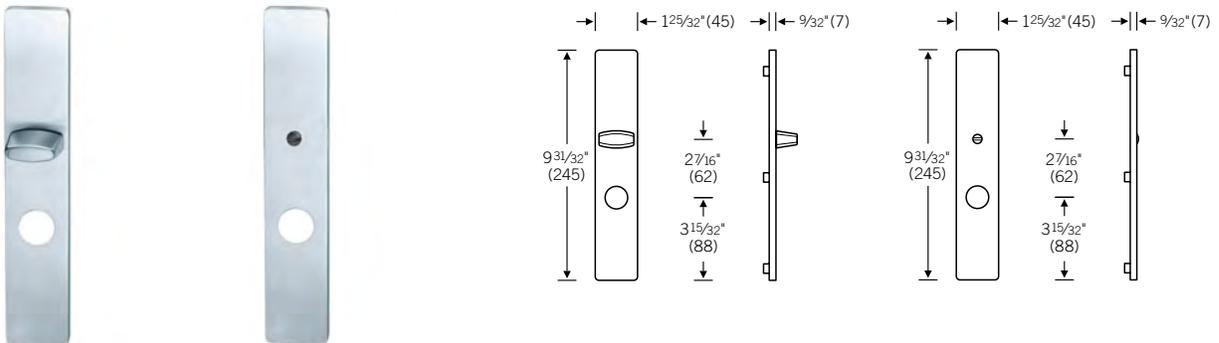
14 1410 09100 ■ ■ ■ ■
9 5/8" (245 mm)



Standard Turn with Emergency Release (SN)

14 1410 09103 ■ ■ ■ ■

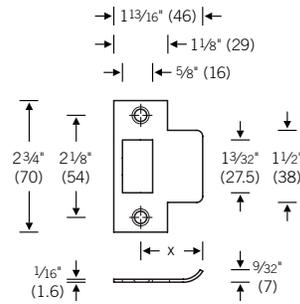
Trim Set - Includes two rose assemblies, spindle and screws



All details subject to modification

HLL & HLT

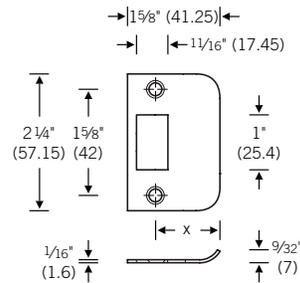
HLL Tubular Latch Strikes



HLL 1001

HLL Series Strike with dustbox

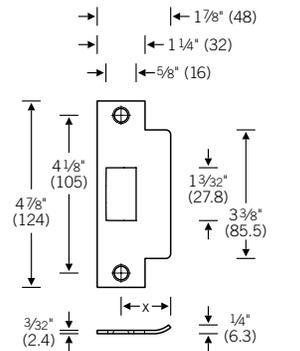
Standard **T1** = 1 1/4"



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

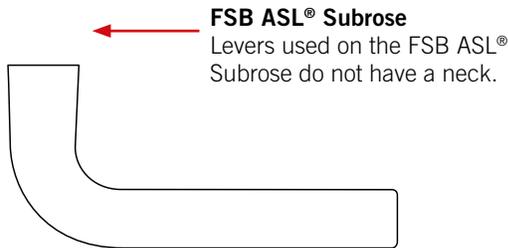
Fastening by means of through-fixed bolting with retention lugs and machine screws.

Solid spindle

The 8 mm solid spindle caters to standard door thicknesses from 1 3/8 to 2 1/4 inches.

Availability

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



FSB Original Subrose

Product variants

- Roses RA, RD, RF, RM and ED escutcheons

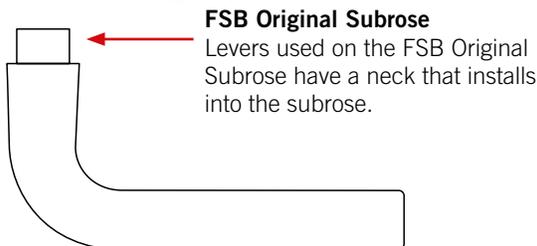
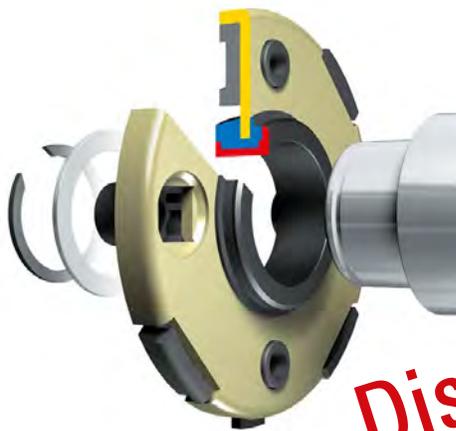
Fasteners

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

Spindle

Solid and stem spindles depending on lock type and function.

Discontinued



All details subject to modification

HLL & HLT

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 1/8" x 2 1/4" (28.5 x 57 mm).
Wrought stainless steel, satin finish.
Adjustable for beveled conditions from flat to standard bevel 1/8" on 2" (3 on 51 mm).

Latch Bolt

1/2" (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 3/4" - 2 1/4" (45 - 57 mm) Standard

Backsets

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

Strike

2 3/4" x 1 1/4" (70 x 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 3/4" (70 mm) or 2 3/8" (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" x 2 1/4" (25.4 x 57 mm) Standard
1 1/8" x 2 1/4" (28.5 x 57 mm) Optional Stainless steel or brass, finished to match.

Latch Bolt

1/2" (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

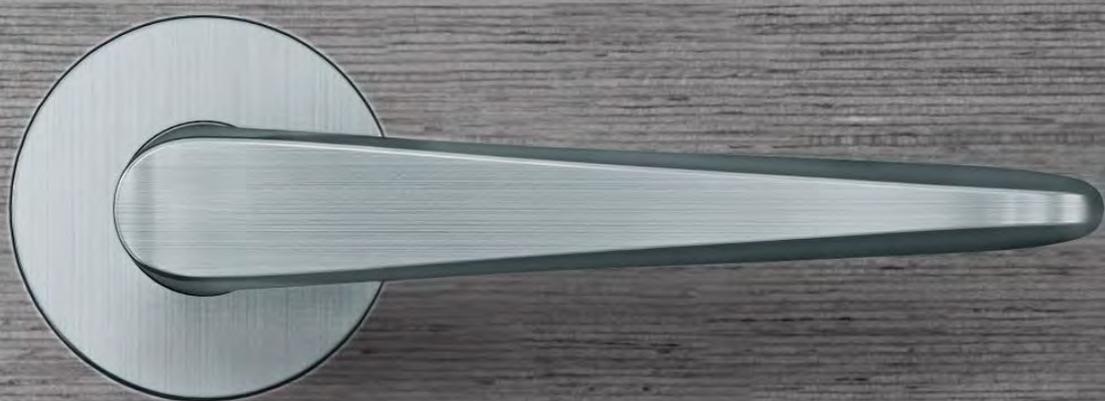
1 3/8" - 2 1/4" (35 - 57 mm) Standard

Backsets

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

Strike

2 3/4" x 1 1/4" (70 x 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.



HLL & HLT



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	Lock and Latch Function	Trim Set	Thumbturn and Indicator
<p>HDD</p> <p>Insert your choice of Lock Type.</p> <p>HDD</p> <p>Premium Elements</p>	<p>S</p> <p>Insert your choice of function using one of the letter codes below.</p> <p>R Thumbturn Deadbolt S Thumbturn Deadbolt with Emergency Release</p>	<p>RA</p> <p>Insert your choice of rose using one of the two letter codes below.</p> <p>Premium/Elements</p> <p>RA Rose 2³/₁₆" (55 mm) RF Narrow Rose RJ Flush Rose (55 mm) RM Square Rose ED Long Rectangular</p> <p>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.</p>	<p>SN</p> <p>Insert your choice of thumbturn using the codes provided.</p> <p>Premium/Elements</p> <p> Standard thumbturn available with roses and escutcheons S</p> <p> ADA thumbturn available with RA roses only D</p> <p> Crescent thumbturn available with RF Trim only C</p> <p>Premium, Elements and Transitions Emergency Releases</p> <p> N  I</p>
<p>HDT</p> <p>Transitions</p>		<p>Transitions</p> <p>RA Rose 2³/₁₆" (55 mm) RM Square Rose (55 mm) ED Long Rectangular</p>	<p>Transitions</p> <p>Standard thumbturn available with all roses and escutcheons </p> <p>ADA thumbturn available with roses only </p>

HDD & HDT

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** 2^{3⁄8}" Backset
- 234** 2^{3⁄4}" Backset

Handing

All sets are non-handed.

Door Thickness

134

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

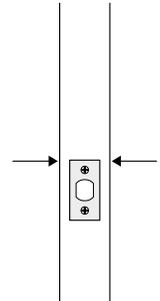
Standard

- 134** 1^{3⁄4}"
- 138** 1^{3⁄8}"

Special Order

- 200** 2"
- 214** 2^{1⁄4}"

All sizes over 2^{1⁄4}" thick please consult FSB.



HDD & HDT

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

HDD & HDT

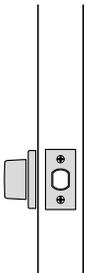
Function R

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

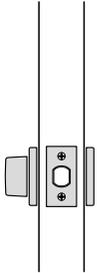
Series HDD and HDT Functions

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



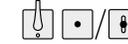
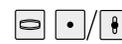
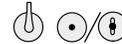
Transitions Series Trim Sets

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



HDD & HDT

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 

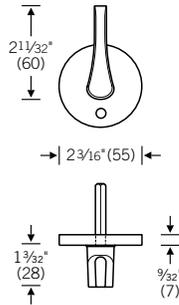
Trim Set - Includes two rose assemblies, spindle and screws



Thumbturns for RA 55mm Rose Series HDD and HDT

D

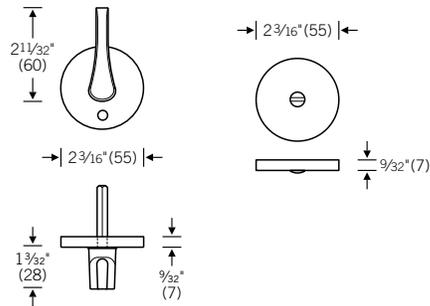
17 1744 09169 
 ADA Thumbturn



ADA Turn with Emergency Release (DN)

17 1744 09160 

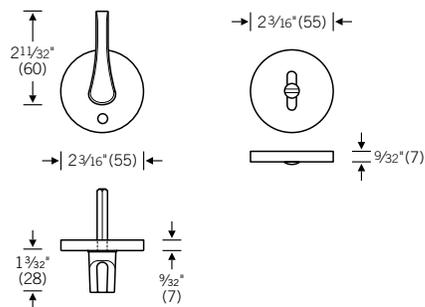
Trim Set - Includes two rose assemblies, spindle and screws



ADA Turn with Emergency Release and Indicator (DI)

17 1744 09159 

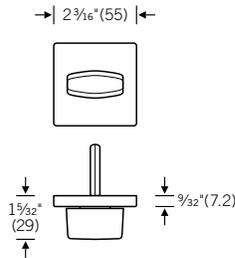
Trim Set - Includes two rose assemblies, spindle and screws



Thumbturns for RM 55mm Square Rose Series HDD and HDT

S

17 1712 00169 
Standard Thumbturn

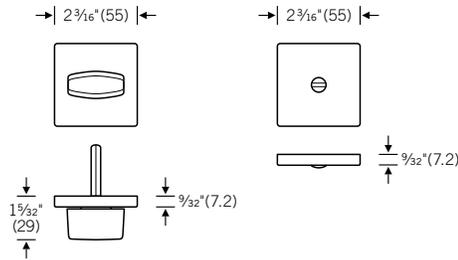


HDD & HDT

Standard Turn with Emergency Release (SN)

17 1712 00160 

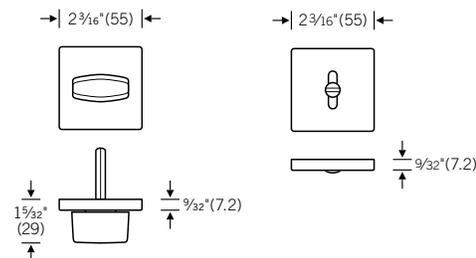
Trim Set - Includes two rose assemblies, spindle and screws



Standard Turn with Emergency Release and Indicator (SI)

17 1712 00159 

Trim Set - Includes two rose assemblies, spindle and screws

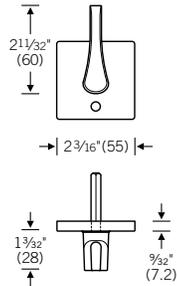


Thumbturns for RM 55mm Square Rose Series HDT

Transitions Only

D

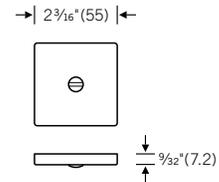
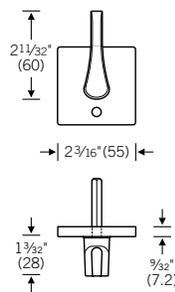
17 1712 09169 ■
ADA Thumbturn



ADA Turn with Emergency Release (DN)

17 1712 09160 ■ Transitions Series Only

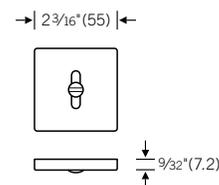
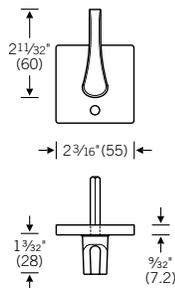
Trim Set - Includes two rose assemblies, spindle and screws



ADA Turn with Emergency Release and Indicator (DI)

17 1712 09159 ■ Transitions Series Only

Trim Set - Includes two rose assemblies, spindle and screws

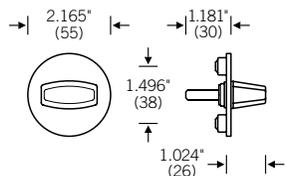


HDD & HDT

Trim Set RJ Flush Rose Deadbolt HDD

S

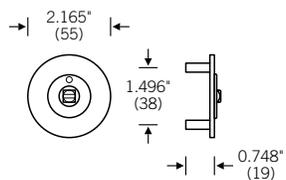
17 1737 09018 
Standard Thumbturn



HDD & HDT

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.

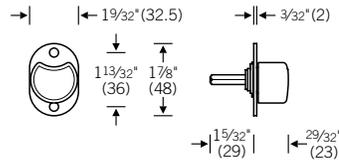
RJ trim is available for 1 3/4" door thickness only.
Using wood screws.

Trim Set RF Narrow Rose Deadbolt HDD

Premium and Elements

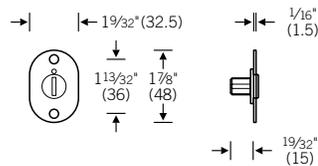
C

03 0418 09001 
Crescent Thumbturn



I

Emergency Release with Indicator



Set with Crescent Thumbturn (C) 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 2 3/4" (70 mm) or 2 3/8" (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" x 2 1/4" (25.4 x 57 mm) Standard
1 1/8" x 2 1/4" (28.5 x 57 mm) Optional
stainless steel or brass, finished to match.
Adjustable for beveled conditions from flat to standard bevel.

Deadbolt

3/16" (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 3/8" – 2 1/4" (35 – 57 mm) Standard

Backsets

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

Strike

2 3/4" x 1 1/8" (70 x 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



HDD & HDT

Specifying Deadbolt

Keyed Deadbolt Series KDD and KDT

Keyed Deadbolt Type	Lock and Latch Function	Trim Set	Thumbturn and Indicator
<p>KDD</p> <p>Insert your choice of Lock Type.</p> <p>KDD Premium Elements</p>	<p>N</p> <p>Insert your choice of function using one of the letter codes below.</p> <p>N Key × Key Deadbolt P Key × Thumbturn Deadbolt</p>	<p>DA</p> <p>Insert your choice of rose using one of the two letter codes below.</p> <p>Premium/Elements</p> <p>DA Conical Rose 2 3/16 (55 mm)</p> <p>DD Conical Rose 2 9/16 (65 mm)</p> <p>LA* Conical Rose 2 3/16 (55 mm)</p> <p>LD* Conical Rose 2 9/16 (65 mm)</p> <p>LM* Square Rose 2 3/16 (55 mm)</p> <p>* LA, LD and LM Roses only available in Stainless Steel.</p> <p>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.</p>	<p>S</p> <p>Only thumbturn available in KDD/KDT is the Standard Thumbturn.</p> <p>Premium/Elements</p> <p> Standard thumbturn available with all roses S</p>
<p>KDT</p> <p>Transitions</p>		<p>Transitions</p> <p>LA Conical Rose 2 3/16 (55 mm)</p> <p>LD Conical Rose 2 9/16 (65 mm)</p> <p>LM Square Rose 2 3/16 (55 mm)</p>	<p>Transitions</p> <p> Standard thumbturn available with all roses S</p>

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** 2 3/8" Backset
- 234** 2 3/4" Backset

Handing

All sets are non-handed.

Door Thickness

134

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

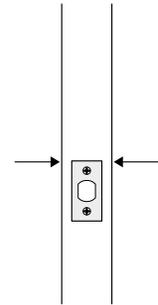
Standard

- 134** 1 3/4"
- 138** 1 3/8"

Special Order

- 200** 2"
- 214** 2 1/4"

All sizes over 2 1/4" 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

2 3/8" (60 mm)

2 3/4" (70 mm)

Strike

Universal deadbolt strike with dustbox.

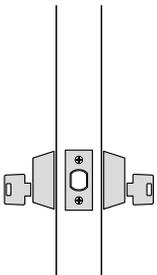
KDD & KDT

Function N

Key x 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

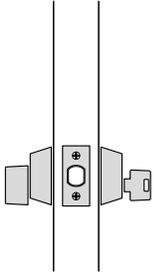
Keyed Deadbolt

Series KDD and KDT Functions

Function P

**Key x 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

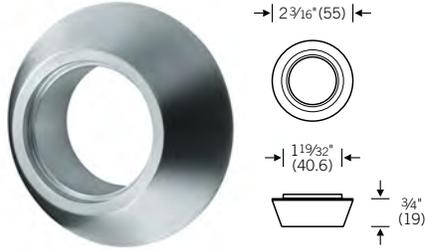
Trim Sets

Keyed Deadbolt KDD

Premium and Elements

DA

03 0450 09011 ■■■
 $2\frac{3}{16}$ " (55 mm) × $\frac{3}{4}$ " (19 mm)



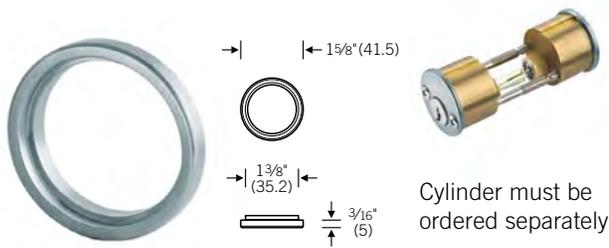
DD

03 0450 09010 ■■■
 $2\frac{9}{16}$ " (65 mm) × $\frac{3}{4}$ " (19 mm)



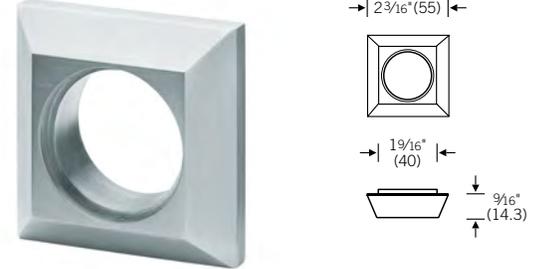
Cylinder Extension Ring

03 0450 09013 ■■■
 $1\frac{3}{8}$ " (35 mm) × $\frac{3}{16}$ " (5 mm)



LM

03 0450 09154 ■■■
 $2\frac{3}{16}$ " (55 mm) × $\frac{9}{16}$ " (14.3 mm)



LA

03 0450 09152 ■■■
 $2\frac{3}{16}$ " (55 mm) × $\frac{9}{16}$ " (14.3 mm)



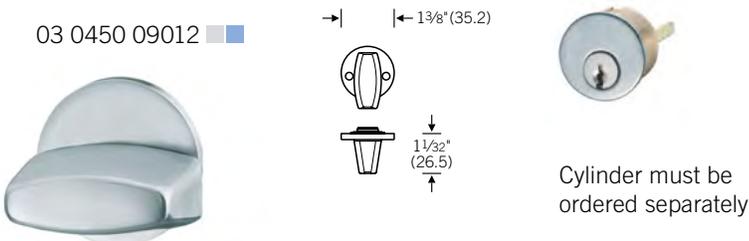
LD

03 0450 09153 ■■■
 $2\frac{9}{16}$ " (65 mm) × $\frac{9}{16}$ " (14.3 mm)



Thumbturn

03 0450 09012 ■■■



Trim Sets

Keyed Deadbolt KDT

Transitions

LA

03 0450 09152 ■
 $2\frac{3}{16}"$ (55 mm) × $\frac{9}{16}"$ (14.3 mm)



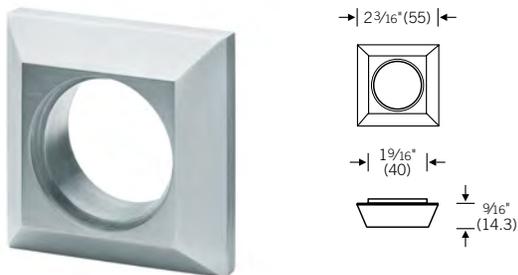
LD

03 0450 09153 ■
 $2\frac{1}{2}"$ (65 mm) × $\frac{9}{16}"$ (14.3 mm)



LM

03 0450 09154 ■
 $2\frac{3}{16}"$ (55 mm) × $\frac{9}{16}"$ (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 2 3/4" (70 mm) or 2 3/8" (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" x 2 1/4" (25.4 x 57 mm) Standard
1 1/8" x 2 1/4" (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 3/8" – 2 1/4" (35 – 57 mm) Standard

Backsets

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

Strike

2 3/4" x 1 1/8" (70 x 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 2 3/4" (70 mm) or 2 3/8" (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" x 2 1/4" (25.4 x 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 3/8" – 2 1/4" (35 – 57 mm) Standard

Backsets

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

Strike

2 3/4" x 1 1/8" (70 x 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



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	Lock Function	Lever Design	Trim Set	Thumbturn and Indicator																																																				
<p>SLL</p> <p>Insert your choice of Lock Type.</p> <p>SLL Premium Elements</p>	<p>B</p> <p>Insert your choice of function using one of the letter codes below.</p> <p>B Dormitory E Privacy T Patio</p>	<p>1147</p> <p>Insert your choice of lever design using one of the four digit codes.</p> <p>Premium/Elements</p> <table border="0"> <tr><td>1001*</td><td>1078</td></tr> <tr><td>1002*</td><td>1080</td></tr> <tr><td>1003</td><td>1088</td></tr> <tr><td>1004</td><td>1093</td></tr> <tr><td>1005</td><td>1102</td></tr> <tr><td>1015</td><td>1106</td></tr> <tr><td>1016</td><td>1107</td></tr> <tr><td>1020*</td><td>1108</td></tr> <tr><td>1021</td><td>1119</td></tr> <tr><td>1023</td><td>1134</td></tr> <tr><td>1025</td><td>1144</td></tr> <tr><td>1027</td><td>1146</td></tr> <tr><td>1028</td><td>1147</td></tr> <tr><td>1031</td><td>1160</td></tr> <tr><td>1034*</td><td>1163</td></tr> <tr><td>1035</td><td>1164</td></tr> <tr><td>1045</td><td>1176</td></tr> <tr><td>1051*</td><td>1177</td></tr> <tr><td>1053</td><td>1178</td></tr> <tr><td>1057</td><td>1183</td></tr> <tr><td>1058</td><td>1185*</td></tr> <tr><td>1070</td><td>1241*</td></tr> <tr><td>1074</td><td>1251^</td></tr> <tr><td>1075</td><td>1257*</td></tr> <tr><td>1076</td><td>1259*</td></tr> <tr><td>1077*</td><td></td></tr> </table> <p>^ Stainless Only * Elements Only</p>	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*		<p>RA</p> <p>Insert your choice of rose or escutcheon using one of the letter codes.</p> <p>Premium/Elements</p> <p>RA Rose 2³/₁₆" (55 mm) RD Rose 2⁹/₁₆" (65 mm) RF Narrow Rose RM Square Rose (55 mm) ED Long Rectangular</p> <p>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.</p>	<p>S</p> <p>Insert your choice of thumbturn and indicator if necessary using the codes provided.</p> <p>Premium/Elements</p> <p> Standard thumbturn available with roses and escutcheons S</p> <p> ADA thumbturn available with RA and RD roses only D</p> <p> Crescent thumbturn available with RF Trim only C</p> <p>Premium, Elements and Transitions Emergency Releases</p> <p> N  I</p>
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*																																																								
<p>SLT</p> <p>Transitions</p>		<p>Transitions</p> <table border="0"> <tr><td>1035</td><td>1250</td></tr> <tr><td>1058</td><td>1251</td></tr> <tr><td>1075</td><td>1252</td></tr> <tr><td>1076</td><td>1253</td></tr> <tr><td>1241</td><td></td></tr> </table>	1035	1250	1058	1251	1075	1252	1076	1253	1241		<p>Transitions</p> <p>RA Rose 2³/₁₆" (55 mm) RD Rose 2⁹/₁₆" (65 mm) RM Square Rose (55 mm) RS Square Rose (65 mm) ED Long Rectangular</p>	<p>Transitions</p> <p> Standard thumbturn available with all roses and escutcheons S</p> <p> ADA thumbturn available with roses only D</p>																																										
1035	1250																																																							
1058	1251																																																							
1075	1252																																																							
1076	1253																																																							
1241																																																								

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** 2 ½" Backset
- 234** 2 ¾" Backset

Special Order

- 334** 3 ¾" 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.

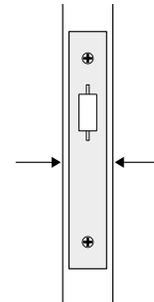
Standard

- 134** 1 ¾"

Special Order

- 138** 1 ⅝"
- 200** 2"
- 214** 2 ¼"

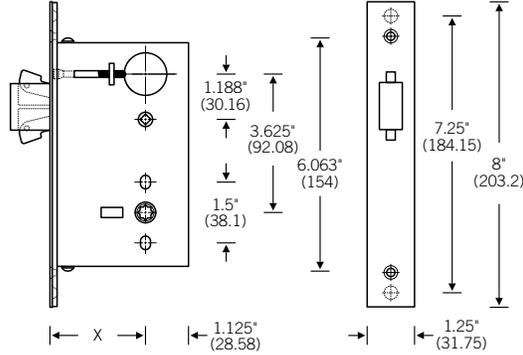
All sizes over 1 ¾" thick are special order. Please consult FSB.



SLL & SLT

Sliding Lever Lock

Series SLL and SLT Functions



Series SLL & SLT

Sliding Door Lock

Backsets

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

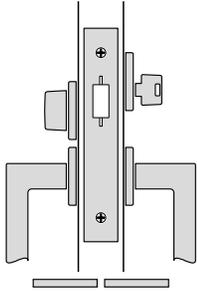
Function B

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



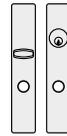
RD-S



RM-S



ED-S



RF-C



RA-D



RD-D



Transitions Series Trim Sets

RA-S



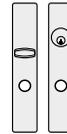
RD-S



RM-S



ED-S



RA-D



RD-D



RM-D



RS-D



Sliding Lever Lock

Series SLL and SLT Functions

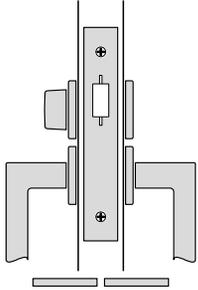
Function E

Privacy

ANSI Code F19

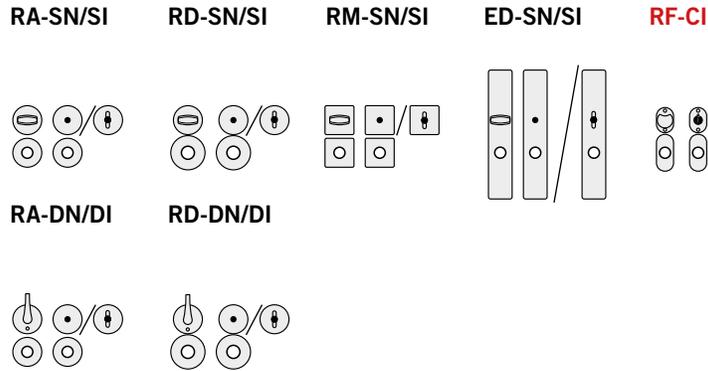
Description

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

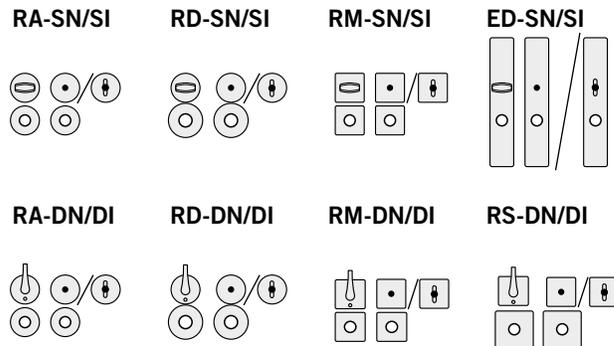


Split Spindle

Premium and Elements Series Trim Sets



Transitions Series Trim Sets



SLL & SLT

Sliding Lever Lock

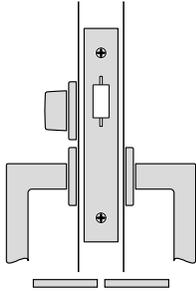
Series SLL and SLT Functions

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



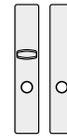
RD-S



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

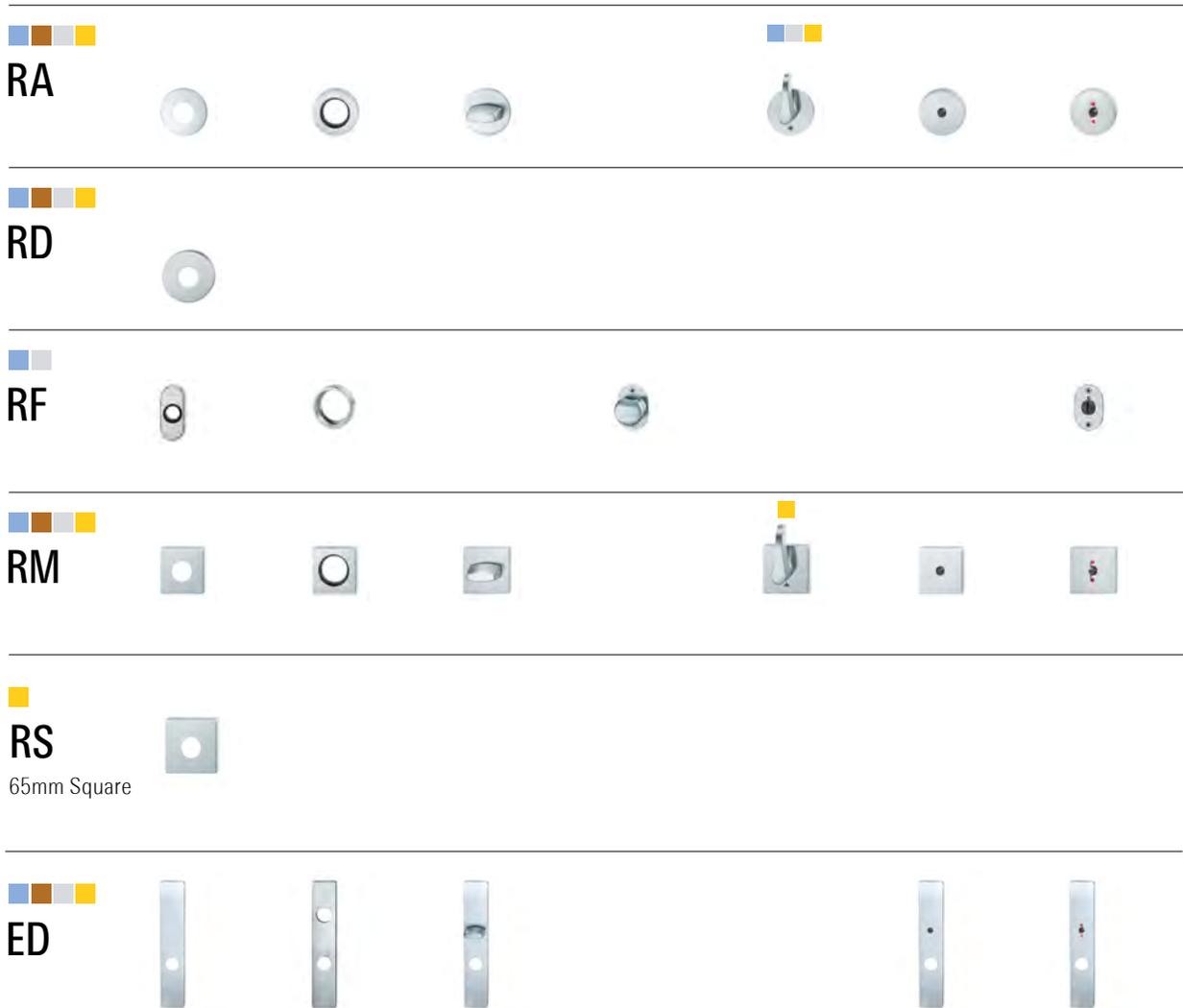


RS-D



Trim Set Overview

Sliding Lever Lock (SLL and SLT)



For trim set details please refer to Standard Mortise Locks Section

Materials and Finishes	Premium		Elements	Transitions	
	<ul style="list-style-type: none"> ■ Stainless Steel ■ 6204 (630) ■ 6205 (629) 	<ul style="list-style-type: none"> ■ Bronze ■ 7305 (611) ■ 7615 (615) ■ 7625 (613) 		<ul style="list-style-type: none"> ■ Aluminum ■ 0105 (628) ■ 0205 ■ 0410 ■ 0510 ■ 0710 (710) ■ 0810 (711) Powder Coated 	<ul style="list-style-type: none"> ■ Brass

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 × 32 mm)
× 1" (25.4 mm) throw.

Machined solid brass with stainless steel hooks.

Thumbturn Hub

0.2" (5 mm) diameter. 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

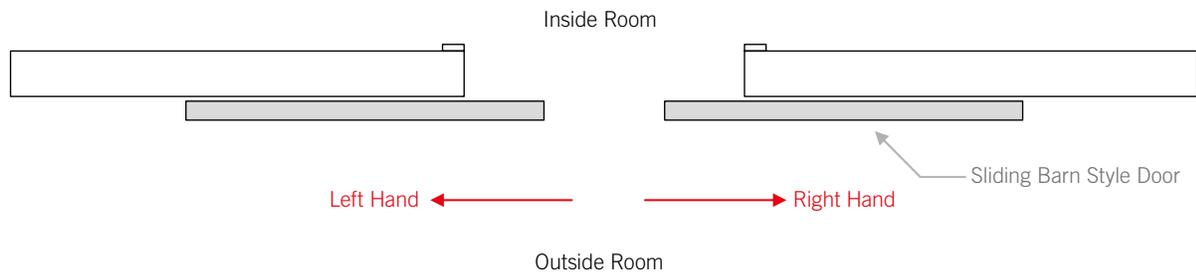
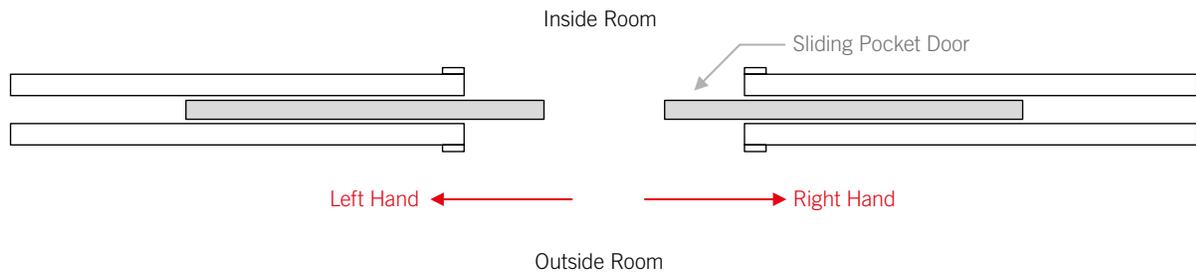
3.625" (92 mm) center lever hub to center cylinder, 2.4375" (62 mm) center lever hub to center thumbturn hub.

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.







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 1/2" 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 x Thumbturn Deadlock

R Thumbturn Deadlock

S Thumbturn Deadlock with Emergency Release

SPL

P Key x 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 1/2" Backset
- 234 2 3/4" Backset

Special Order

- 334 3 3/4" 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

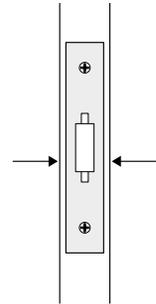
134 1 3/4"

SDL & SPL locking functions with SB Trim available for 1 3/4" wood doors only. Except Y & YP Dummy sets

Special Order

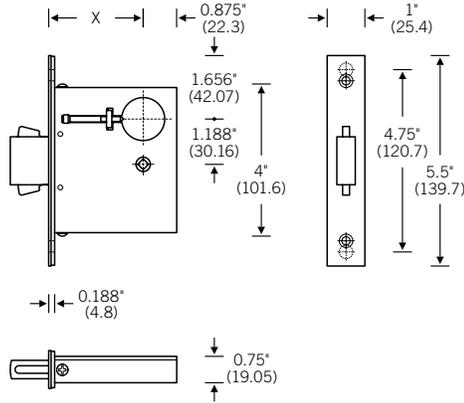
200 2"
214 2 1/4"

All sizes over 1 3/4" thick are special order. Please consult FSB.



Sliding Door Lock

Series SDL Functions



Series SDL

Sliding Door Lock

Backsets

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

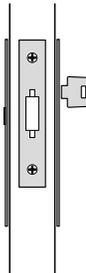
1 3/4" or greater door thickness required.

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 x Thumbturn
Deadlock



Deadbolt by key outside and thumbturn inside.

Trim Sets

SA

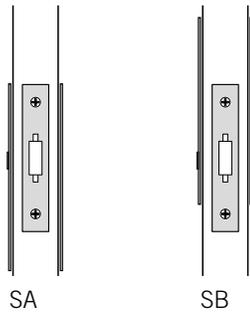


Sliding Door Lock

Series SDL Functions

Function R

Thumbturn Deadlock

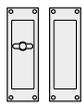


Deadbolt by thumbturn inside.
No operation outside.

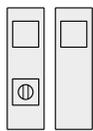
* **SB** Trim available for 1 3/4" wood doors only.

Trim Sets

SA

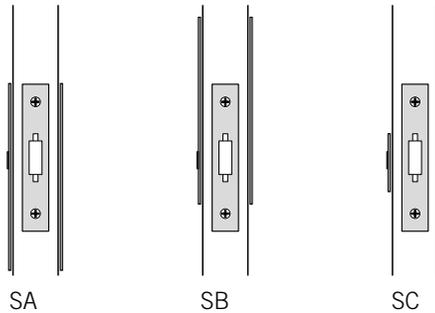


SB*



Function S

Thumbturn Deadlock with Emergency Release



Deadbolt by thumbturn inside and emergency release outside.

* **SB** Trim available for 1 3/4" wood doors only.

SA-N Available in Stainless Only

Options

SA



N

I

SB



N

I

SC



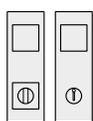
I

Trim Sets

SA-I



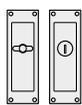
SB-I



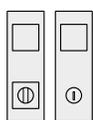
SC-I



SA-N

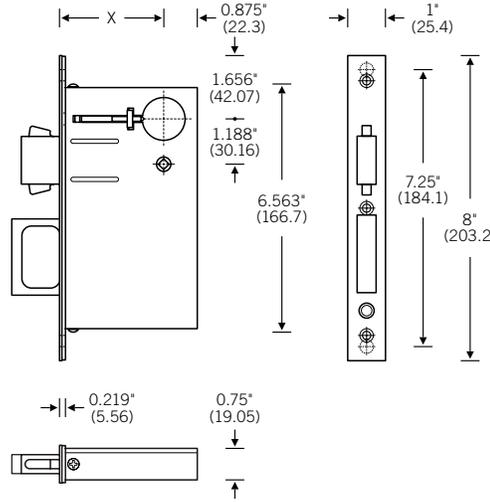


SB-N



Standard Pocket Lock

Series SPL Functions



Series SPL

Standard Pocket Lock/Edge Pull

Backsets

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

1 3/4" or greater door thickness required.

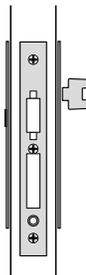
As standard, the finger pull, the button and deadbolt is always supplied in satin chrome or satin brass. Custom finishes are available on request.

Lock body only: SPL 7002

Sliding Door Locks

Function P

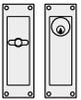
Key x Thumbturn
Deadlock



Deadbolt by key outside and thumbturn inside.

Trim Sets

SA

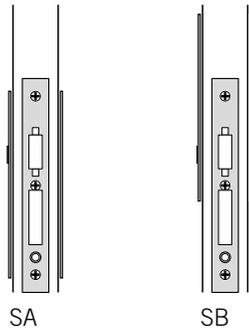


Standard Pocket Lock

Series SPL Functions

Function R

Thumbturn Deadlock



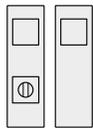
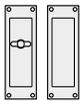
Deadbolt by thumbturn inside. No operation outside.

* **SB** Trim available for 1 3/4" wood doors only.

Trim Sets

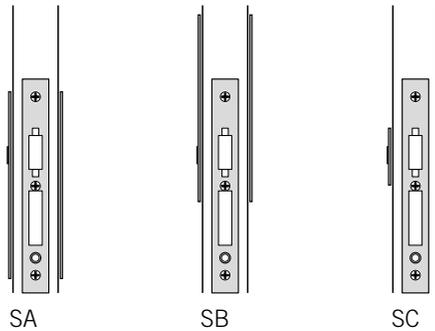
SA

SB*



Function S

Thumbturn Deadlock with Emergency Release



Deadbolt by thumbturn inside and emergency release outside.

* **SB** Trim available for 1 3/4" wood doors only.

Options

SA



N

I

SB



N

I

SC



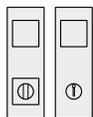
I

Trim Sets

SA-I

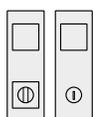
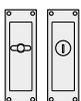
SB-I

SC-I



SA-N

SB-N

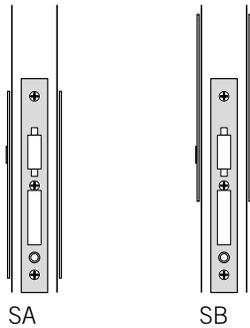


Standard Pocket Lock

Series SPL Functions

Function AS

Dummy prepared as Strike/Pull

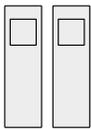
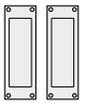


Dummy handle either side.
Lock case front includes strike and pull.

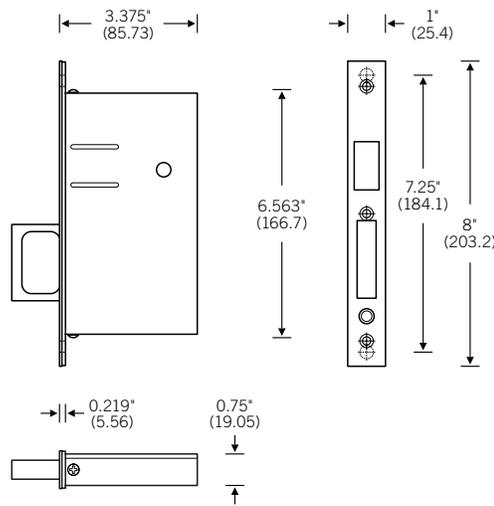
Trim Sets

SA

SB



SPL as Strike



SPL AS

Standard Pocket Lock Strike

Backsets

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

1 3/4" 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

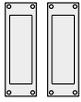
Double Dummy



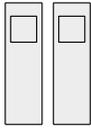
Dummy handle either side.

Trim Sets

SA

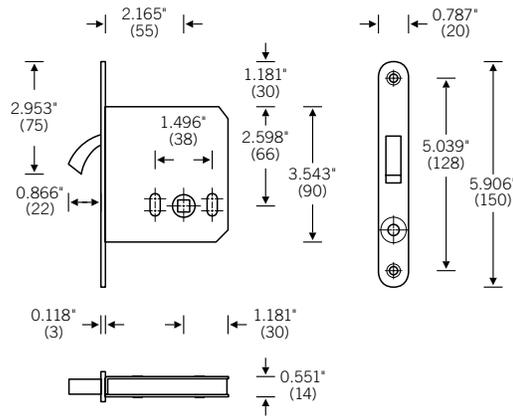


SB



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

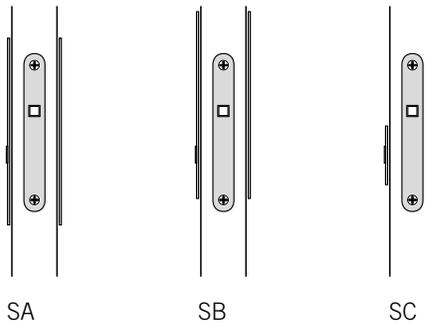
Backset
2 3/16" (55 mm)

1 3/4" door thickness required.

Sliding Door Locks

Function S

Thumbturn Deadlock with
Emergency Release



Deadbolt by
thumbturn
inside and
emergency
release
outside.

Options

SA



I

SB



N

I

SC



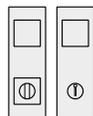
I

Trim Sets

SA-I



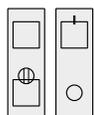
SB-I



SC-I

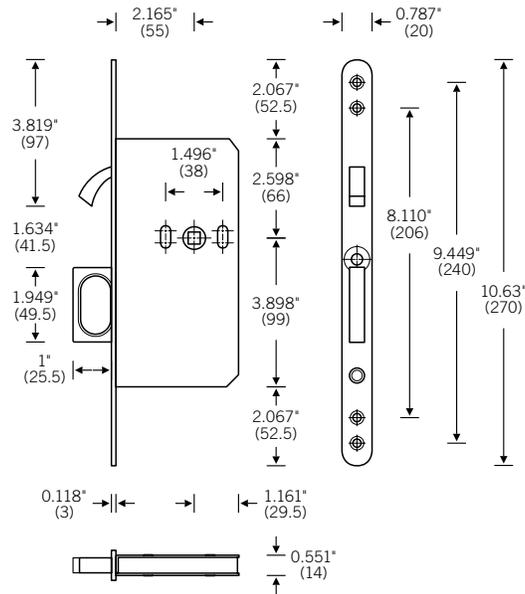


SB-N



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.

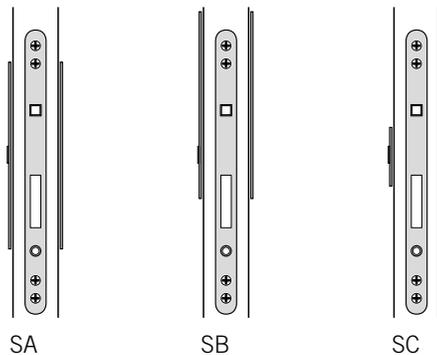
Lock body only: EPL 7002

Backset
2 3/16" (55 mm)

1 3/4" door thickness required.

Function S

Thumbturn Deadlock with
Emergency Release



Deadbolt by
thumbturn inside
and emergency
release outside.

Options

SA



I

SB



N

I

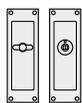
SC



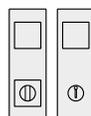
I

Trim Sets

SA-I



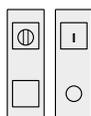
SB-I



SC-I



SB-N

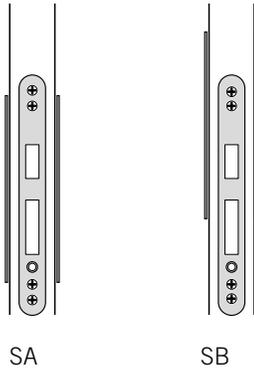


European Sliding Lock

Series EPL Functions

Function AS

Dummy prepared as Strike/Pull

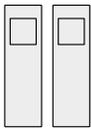
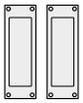


Dummy handle either side.
Lock case front includes strike and pull.

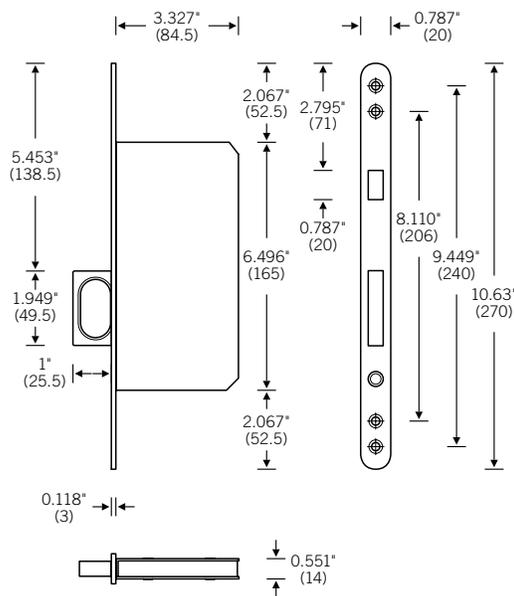
Trim Sets

SA

SB



EPL as Strike



EPL AS

Strike Box for ESL and EPL

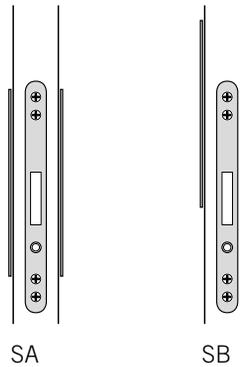
As standard, the finger pull and button is always supplied in satin stainless finish.

European Sliding Lock

Series EPL Functions

Function YP

Dummy with Pull

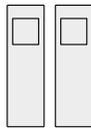
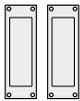


Dummy handle either side.
Lock case with pull.

Trim Sets

SA

SB



Function Y

Double Dummy

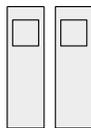
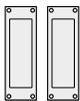


Dummy handle either side.

Trim Sets

SA

SB

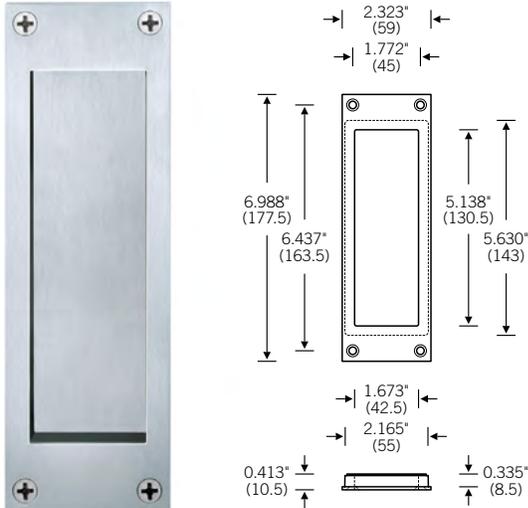


Trim Set SA Flush Pull

Sliding Door Locks (SDL, SPL, ESL and EPL)

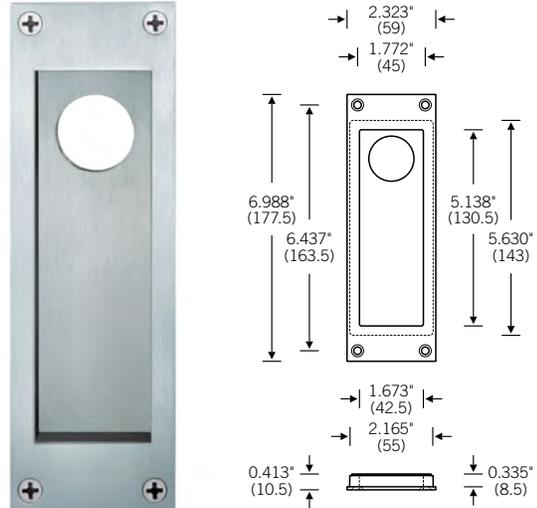
SA

42 4210 09000 ■■■
7" (177.5 mm)



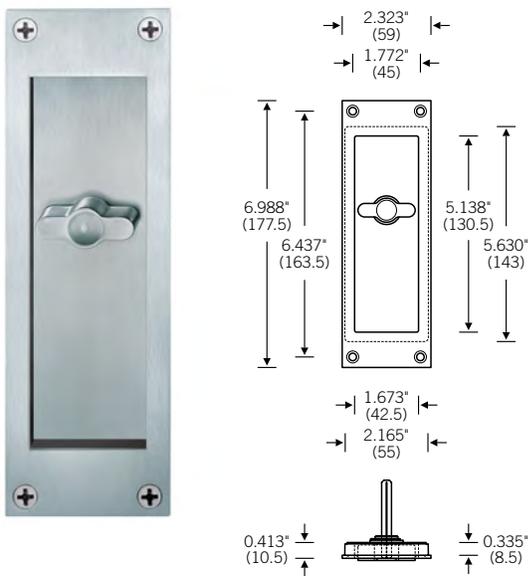
Cylinder Hole

42 4210 09001 ■■■
Cylinder must be ordered separately



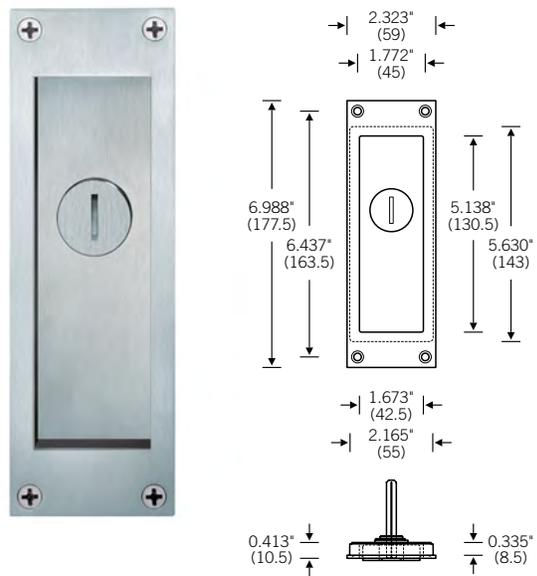
Thumbturn

42 4210 09002 ■■■
with 5 mm Diamond Spindle



Privacy Set

with Indicator outside and Thumbturn inside
1 3/4" 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



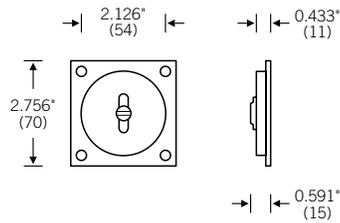
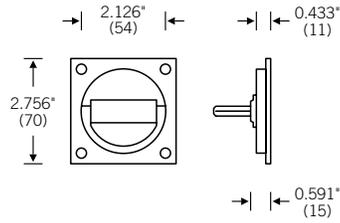
N I

Trim Set SC Flush Ring Handle Sliding Door Locks (SDL, SPL, ESL and EPL)

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

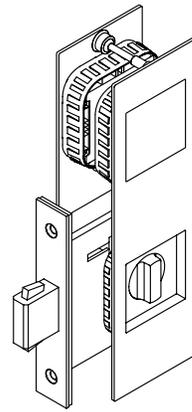
1 3/4" or greater door thickness required.

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

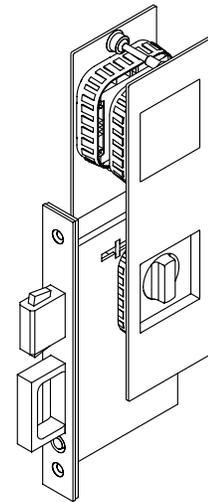
Privacy Set

42 4255 ■

as Set with 5 mm Square Spindle



Set with SDL 7001

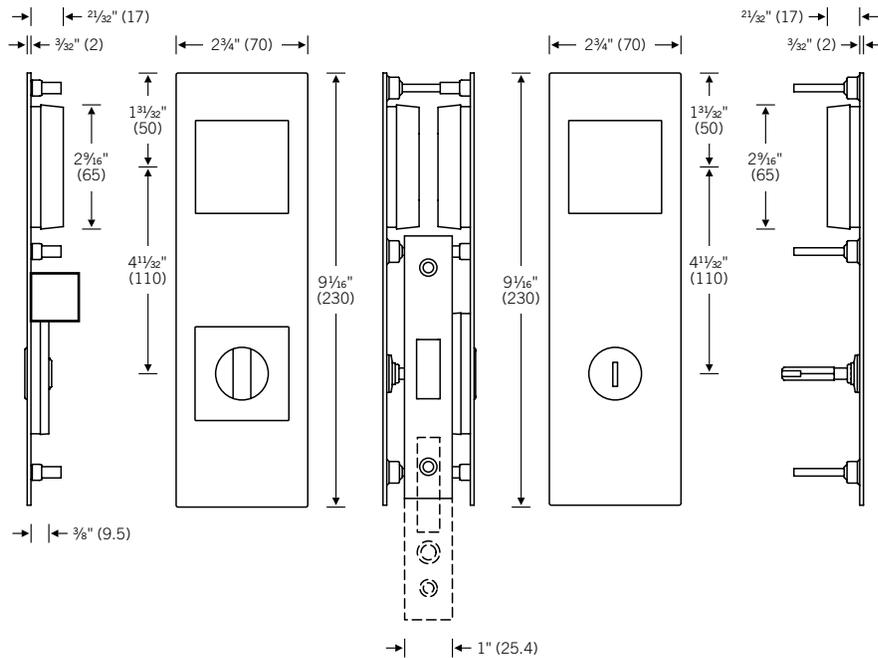


Set with SPL 7002



N

I



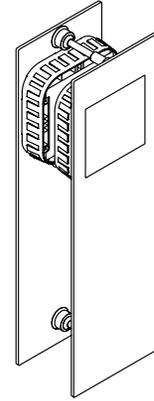
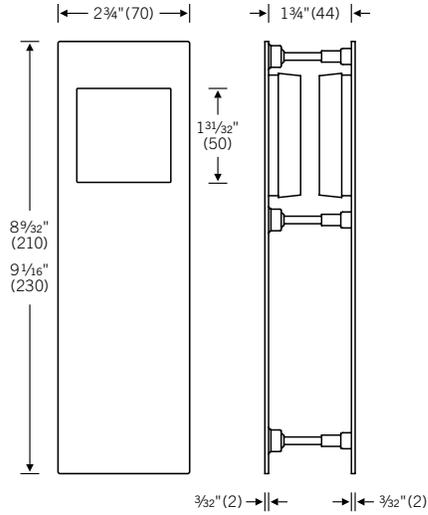
**SB Trim for $1\frac{3}{4}''$ wood doors only.
SB Trim cannot be purchased independently
from Lock. Trim number for reference only.**

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)



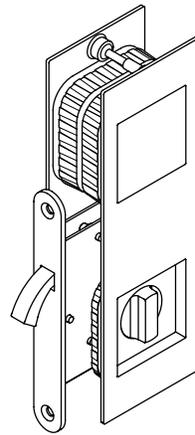
SB Trim for $1\frac{3}{4}"$ wood doors only. SDL & SPL series

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

Privacy Set

42 4255 ■

as Set with 8 mm Square Spindle

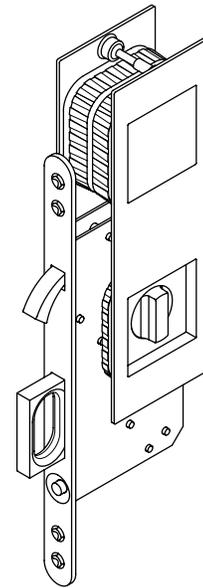


Set with ESL 7001

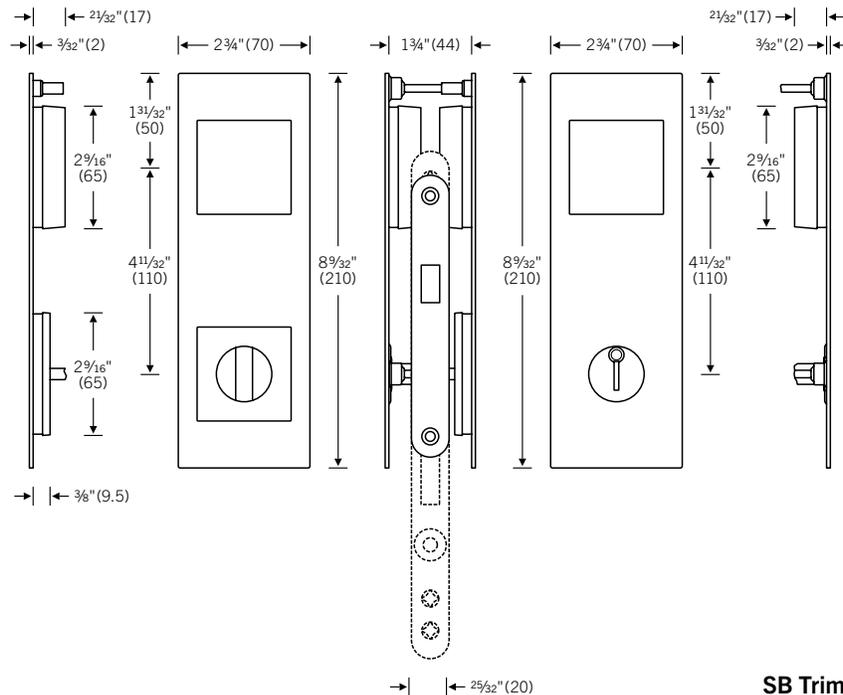


N

I

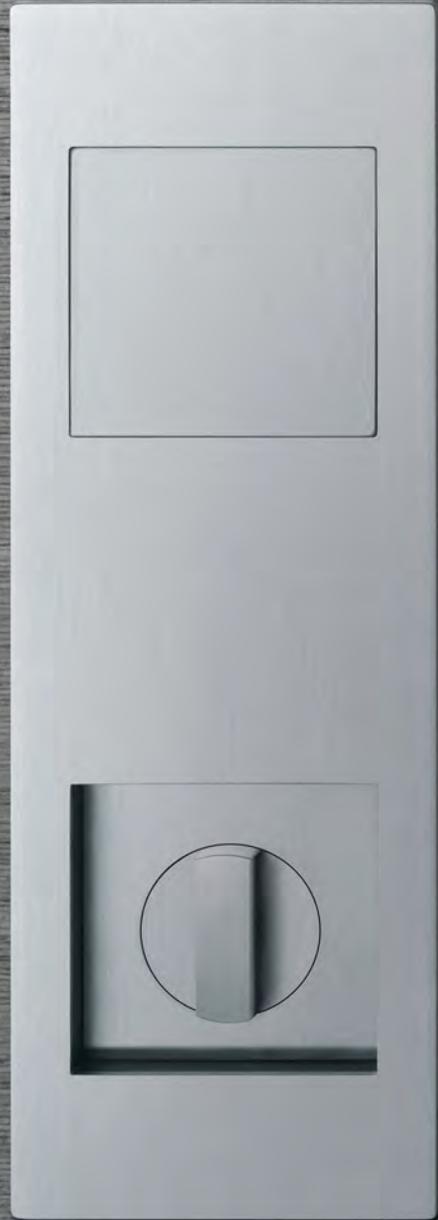


Set with EPL 7002



**SB Trim for $1\frac{3}{4}''$ wood doors only.
SB trim cannot be purchased independently
from Lock. Trim number for reference only.**

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 thumbturn 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 thumbturn 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.

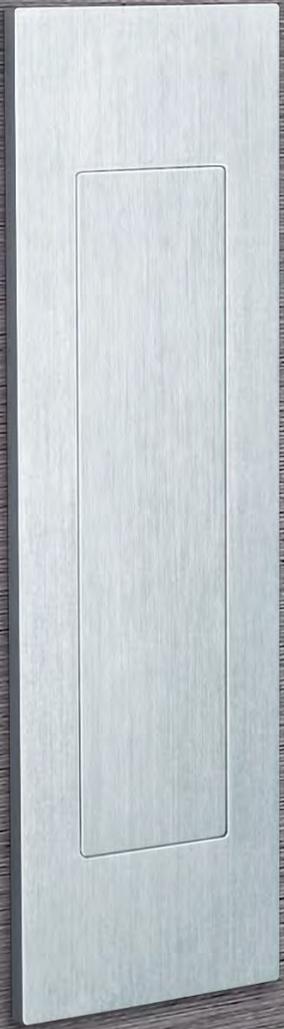
Double Doors:

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



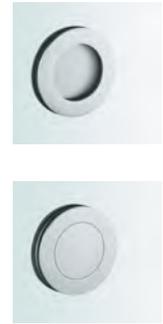
42 4254 ■ ■
 Page 247



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 

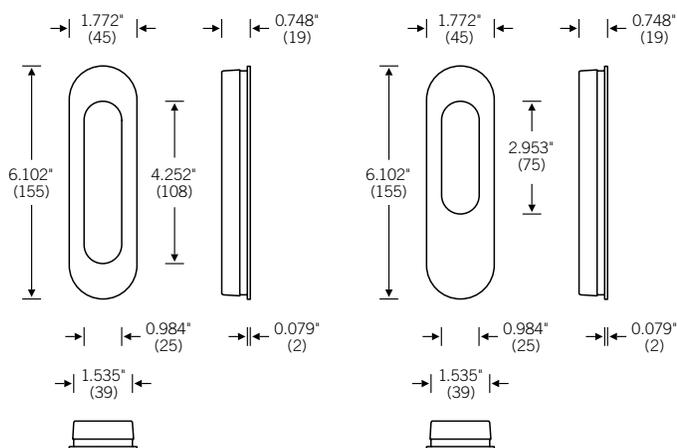
Flush Pulls

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

Recess 150 × R 20 × 17.5 mm
1 3/4" or greater door thickness required.



Sliding Hardware



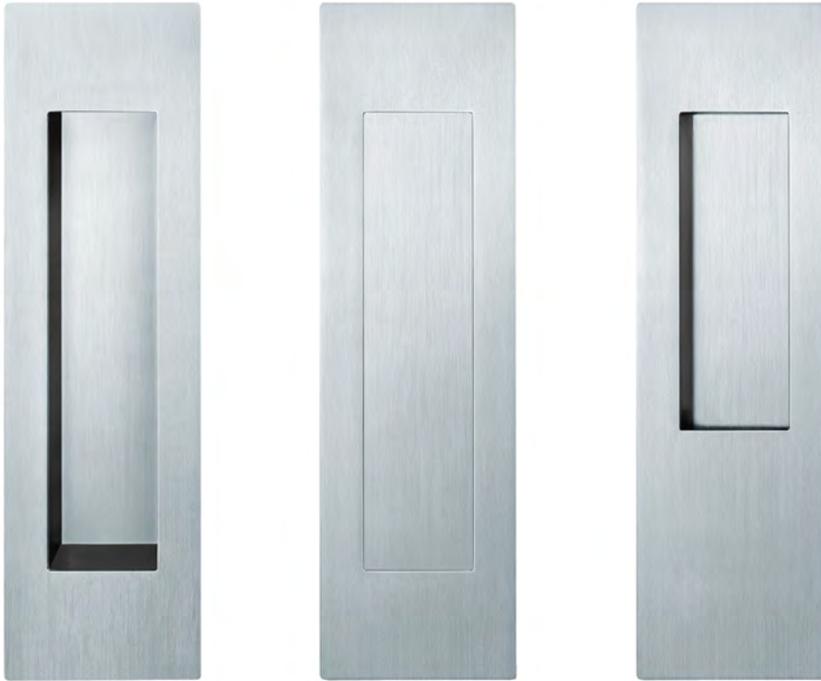
Flush Pulls for Passage Doors

42 4251 

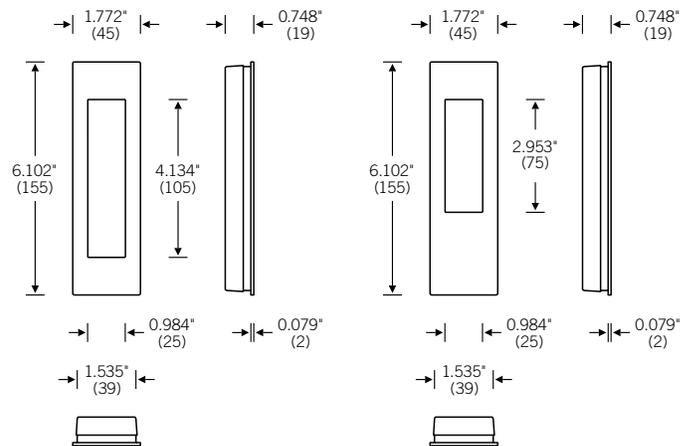
Flush Pulls

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

Recess 150 × R 20 × 17.5 mm
1 3/4" or greater door thickness required.



Sliding Hardware



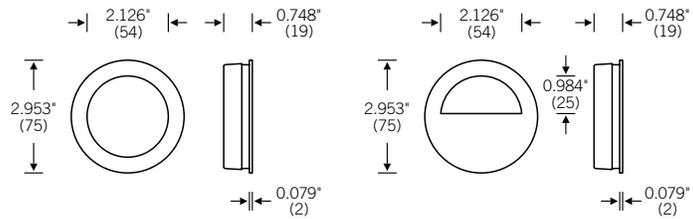
Flush Pulls for Passage Doors

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.

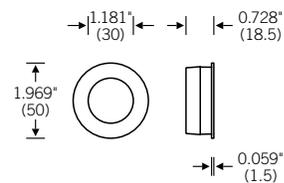


42 4254

Flush Pulls

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

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



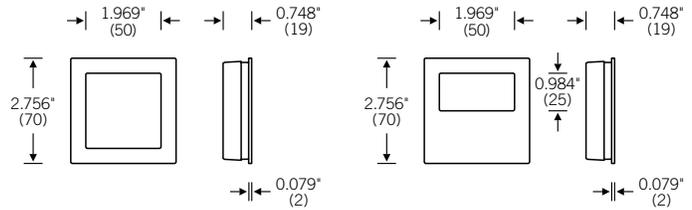
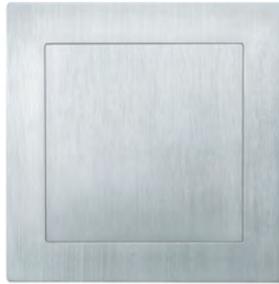
Flush Pulls for Passage Doors

42 4253 

Flush Pulls

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

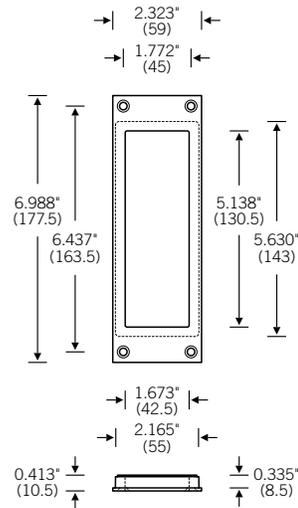
Recess 65 × 65 × 17.5 mm
Corner radius R 15
1 3/4" or greater door thickness required.



Flush Pull Sets for Passage Doors

42 4210 
7" (177.5 mm)

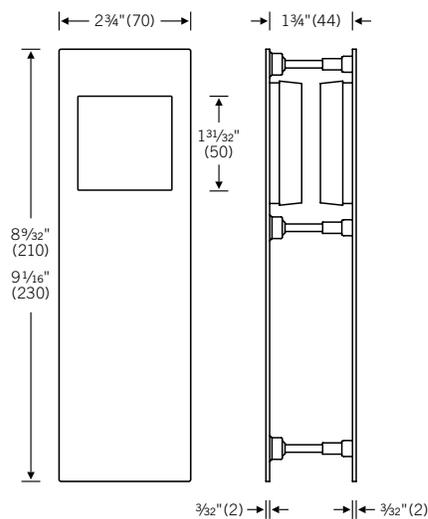
Flush Pulls
42 4210 09000



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 3/4" or greater door thickness required.



Flush Pulls for Glass Doors



13 4256 ■ ■

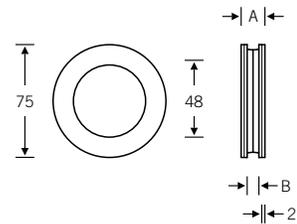
Items number	B	A
13 4256 00100	8 mm	16 mm
13 4256 00200	10 mm	18 mm
13 4256 00300	12 mm	20 mm

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 counter-
sunk screws, included in delivery



13 4256 ■ ■

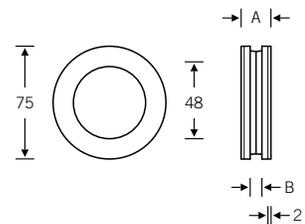
Items number	B	A
13 4256 00101	8 mm	20 mm
13 4256 00201	10 mm	22 mm
13 4256 00301	12 mm	24 mm

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

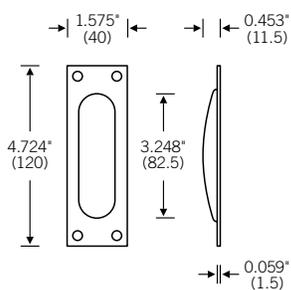


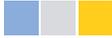
Flush Pulls for Passage Doors

42 4211 

Flush Pull

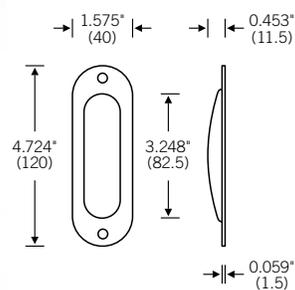
Recess $3\frac{7}{16} \times 1\frac{1}{32} \times \frac{13}{32}$ " (87 × 28 × 10 mm)
Boreholes for 3.0 mm countersunk screws



42 4212 

Flush Pull

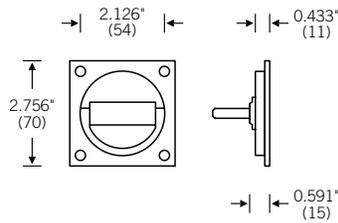
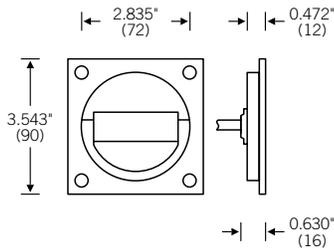
Recess $3\frac{7}{16} \times 1\frac{3}{32} \times \frac{13}{32}$ " (87 × 28 × 10 mm)
Boreholes for 3.0 mm countersunk screws



Flush Ring Handles

42 4203 | 42 4204

Flush Ring for Passage Doors



Flush Ring with 8 mm Square

3 17/32" x 3 17/32" (90 x 90 mm)
42 4203 00010 female
42 4203 00014 spindle

2 3/4" x 2 3/4" (70 x 70 mm)
42 4204 00010 female
42 4204 00014 spindle

Minimum 1 3/4" door thickness required.

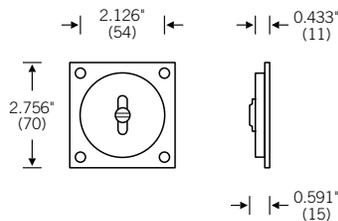
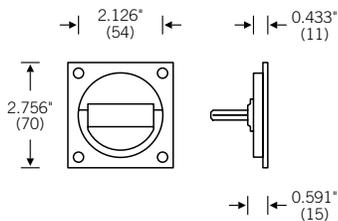
Flush Ring with 5 mm Diamond

2 3/4" x 2 3/4" (70 x 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

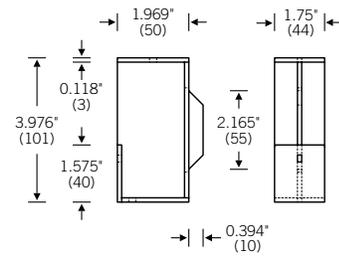
Edge/Flush Pulls for Wood Doors



42 4299 ■

42 4299 00025
1 3/4" (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

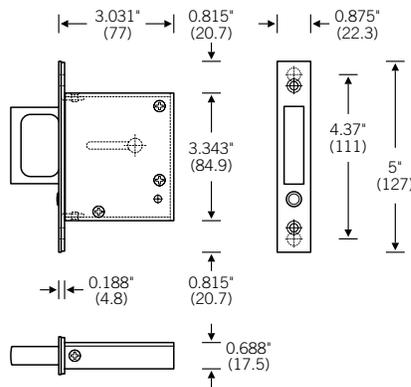
0.188" × 0.875" × 5.50"
(4.8 × 22.3 × 140 mm).

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

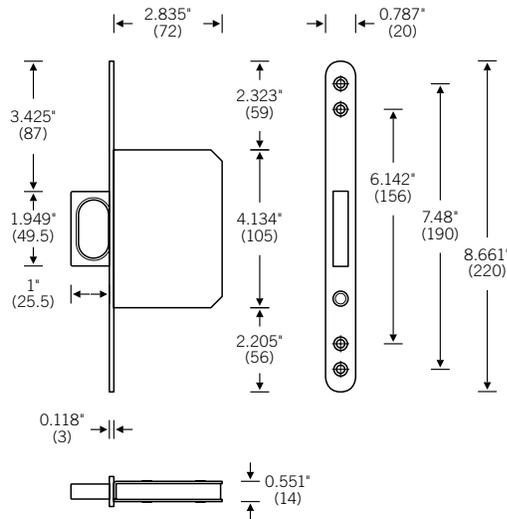
4.13" × 2.95" × 0.55"
(105 × 75 × 14 mm)
Case not enclosed.
0.057" (1.45 mm) thick, steel.

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

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 1 3/4" 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.

Specifying Multi-Point Trim

North American (NMP)

European (EMP) Multi-Point

Lock Type	Trim Function	Lever Design	Trim Set
NMP	<p>C</p> <p>Insert your choice of function using one of the letter codes below</p> <p>C Passage H Entrance T Patio</p>	<p>1003</p> <p>Insert your choice of lever design using one of the four digit codes.</p> <p>Premium/Elements</p> <p>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*</p> <p>^ Stainless Steel Only * Elements Only</p>	<p>ED</p> <p>Insert your choice of escutcheon using one of the two letter codes.</p> <p>ED Long Rectangular</p> <p>Only the ED Escutcheon is available with the NMP trim set. Supplied with standard thumbturn.</p> <hr/> <p>Trim Set</p> <p>ED</p> <p>Insert your choice of escutcheon using one of the two letter codes.</p> <p>ED Long Rectangular</p> <p>Only the ED Escutcheon is available with the EMP trim set. Supplied with standard thumbturn.</p>
EMP	<p>C</p> <p>Insert your choice of function using one of the letter codes below</p> <p>C Passage H Entrance T Patio</p>		

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

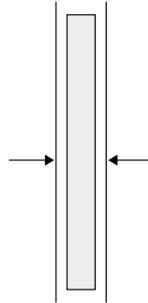
Multi-point trim sets are supplied standard for 1 3/4" door thickness.

Standard

- 134** 1 3/4"
- 214** 2 1/4"

Special Order

All sizes over 2 1/4" thick please consult FSB.



All details subject to modification

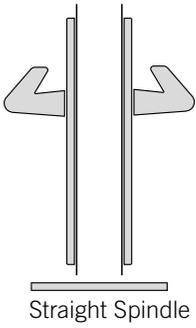
Multi-Point

North American Multi-Point Sets

Lever on Top

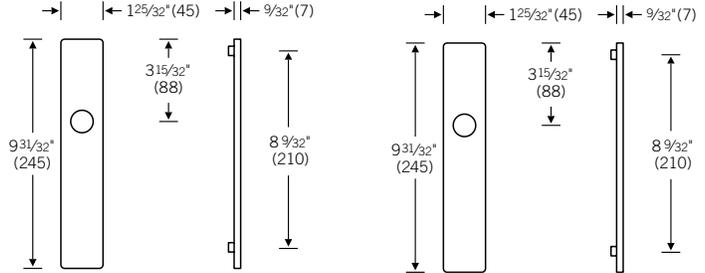
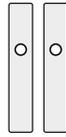
Function C

Passage



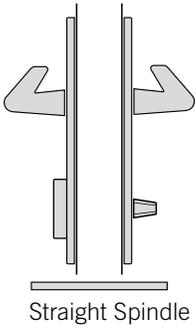
- Set Includes:**
 2 Escutcheons
 2 Levers
 1 Spindle
 2 Screws
 2 Nuts

Lever on Top



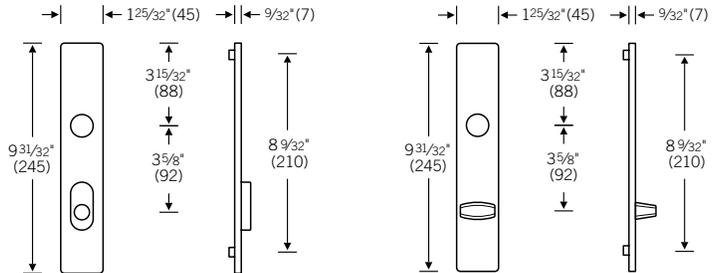
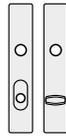
Function H

Entrance



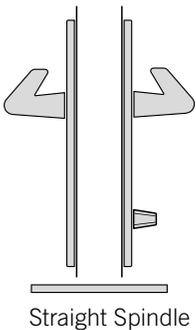
- Set Includes:**
 2 Escutcheons
 2 Levers
 1 Cylinder / Thumbturn
 1 Spindle
 2 Screws
 2 Nuts

Lever on Top



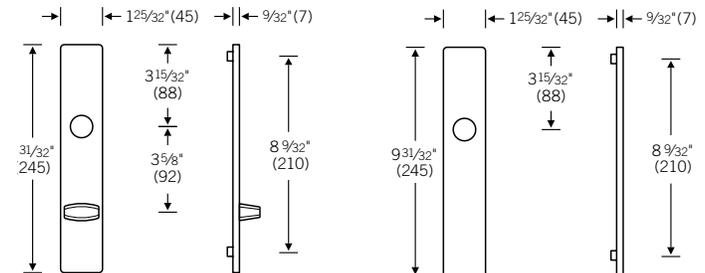
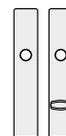
Function T

Patio



- Set Includes:**
 2 Escutcheons
 2 Levers
 1 Thumbturn
 1 Spindle
 2 Screws
 2 Nuts

Lever on Top

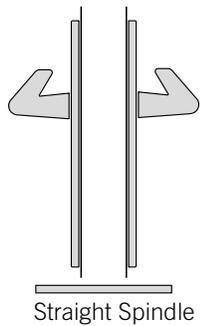


European Multi-Point Sets

Lever on Top

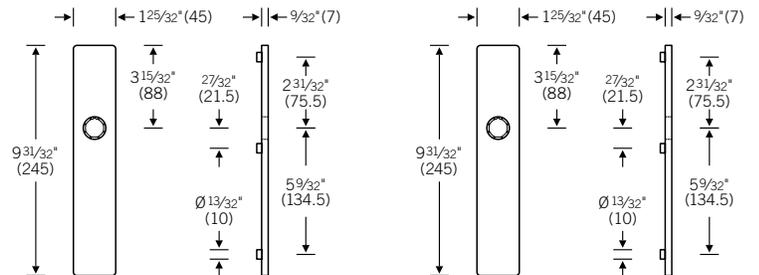
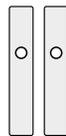
Function C

Passage



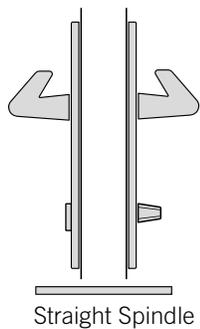
- Set Includes:**
 2 Escutcheons
 2 Levers
 1 Spindle
 3 Screws
 3 Nuts

Lever on Top



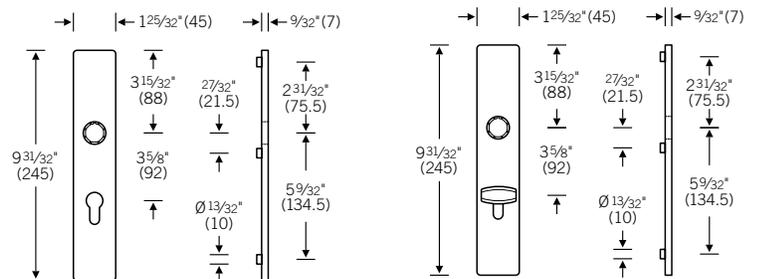
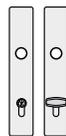
Function H

Entrance



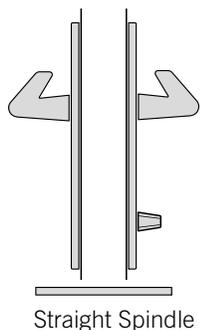
- Set Includes:**
 2 Escutcheons
 2 Levers
 1 Cylinder / Thumbturn
 1 Spindle
 3 Screws
 3 Nuts

Lever on Top



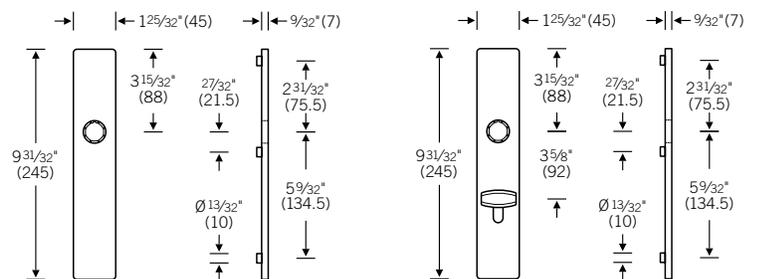
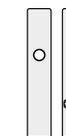
Function T

Patio



- Set Includes:**
 2 Escutcheons
 2 Levers
 1 Thumbturn
 1 Spindle
 3 Screws
 3 Nuts

Lever on Top



All details subject to modification

Multi-Point

North American Multi-Point Escutcheon Plates for Swinging Doors 1410 Series

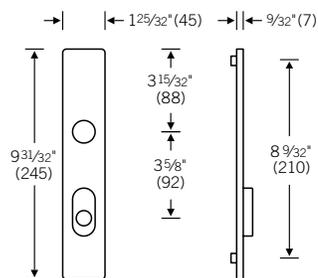
ED

14 1410 09023 ■ ■
 Cylinder | 9³¹/₃₂" (245 mm)



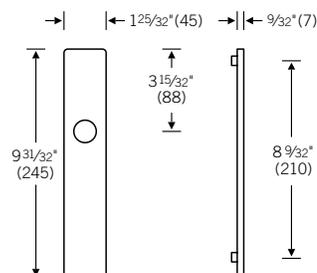
Cylinder

14 1410 09023 ■ ■



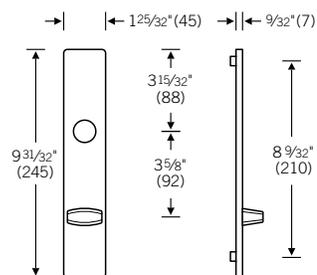
Lever only

14 1410 09021 ■ ■ ■



Thumbturn

14 1410 09022 ■ ■ ■



European Rectangular Multi-Point Escutcheon Plates for Swinging Doors

ED

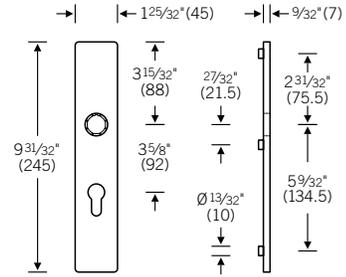
12 1410 19112 
 $9\frac{31}{32}$ " (245 mm)



All details subject to modification

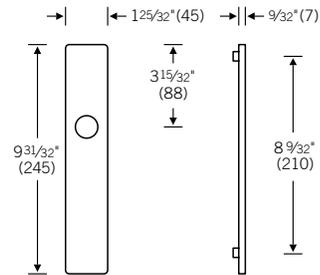
Cylinder

12 1410 19112 



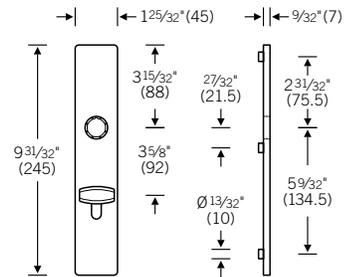
Lever only

14 1410 09021 



Thumbturn

12 1410 19112 and 88 8812 00230 
 (2¼" door use 88 8812 00245)

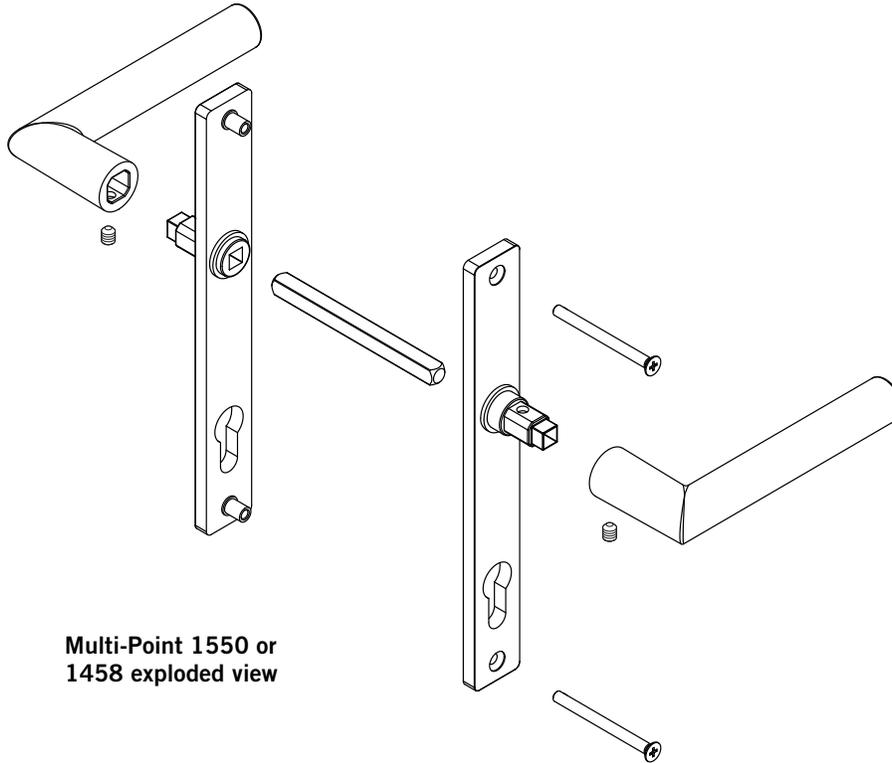


Multi-Point

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 3/4" 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 1/4" 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

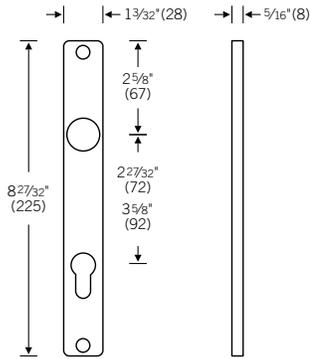
- 2 - Levers - See lever overview on page 21
- 2 - Escutcheons - 14 1550 01012 x Desired Finish
- 1 - Cylinder - 88 8812 00170
- 1 - Spindle and fastener pack - 05 0553 1002 000

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

European Narrow Multi-Point Escutcheon with Visible Fasteners

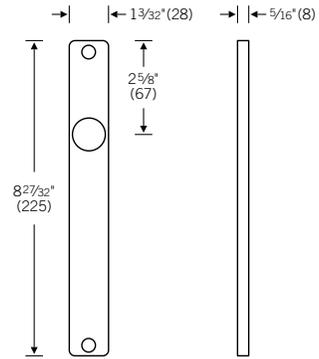
14 1550 01012 PZ 92 mm ■■



Can not be ordered in sets, must be ordered separately.
See Multi-Point sets beginning on page 261.

Lever Only

14 1550 01001 ■■

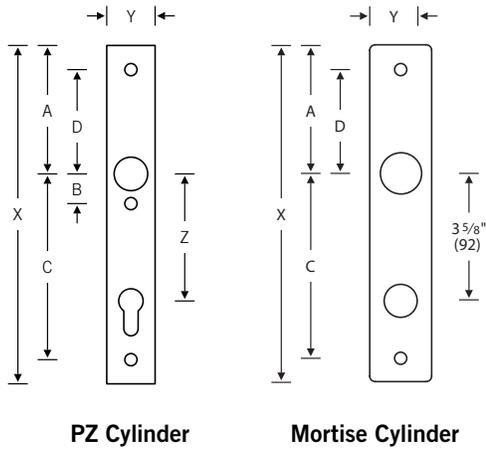


Laser Cut Escutcheon and Multi-Point Dimension Chart

Special Length Laser Cut Escutcheon

14 1458 00299 ■

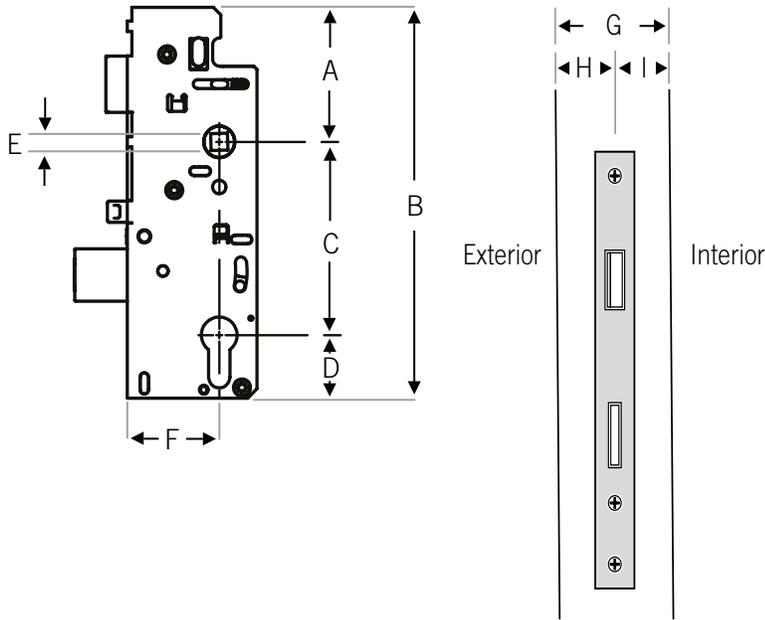
Please complete form and send to FSB for pricing



	PZ Cylinder	Mortise Cylinder
Escutcheon Thickness	<input type="checkbox"/> 3 mm <input type="checkbox"/> 5 mm	<input type="checkbox"/> 3 mm <input type="checkbox"/> 5 mm
Door Thickness		
Length X		
Width Y		
Dimension A		
Dimension B		
Dimension C		
Dimension D		
Spacing Z		
Holes		
Screw Fasteners (visibility)	<input type="checkbox"/> one side <input type="checkbox"/> both sides	<input type="checkbox"/> one side <input type="checkbox"/> both sides
Handle Bearing	<input type="checkbox"/> loose <input type="checkbox"/> turnably fixed*	<input type="checkbox"/> loose <input type="checkbox"/> turnably fixed*

* only for screws visible one side
Please specify 6204 or 6205 finish.

Multi-Point Lock Dimension Chart



Multi-Point Measurements

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

Multi-Point

Specifying Lift and Slide Trim

Lift and Slide (LNS)

Lock Type	Trim Function	Lever Design	Trim Set
LNS	C Insert your choice of function using one of the letter codes below C Passage H Entrance T Patio	1004 Insert your choice of lever design using one of the four digit codes. Levers 1004 1016 1076 1102 1146 1242	MTR Insert your choice of trim using one of the letter codes. 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

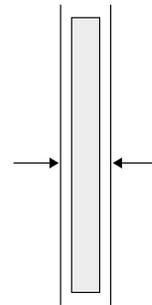
Lift and Slide trim sets are supplied standard for 2 ¼" door thickness.

Standard

214 2 ¼"

Special Order

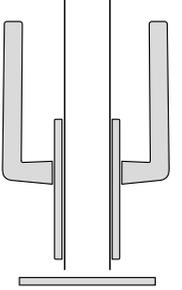
All sizes other than 2 ¼" thick please consult FSB.



Lift and Slide Sets

Function C

Passage

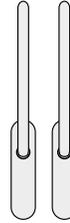


Straight Spindle

Passage Lever by Lever

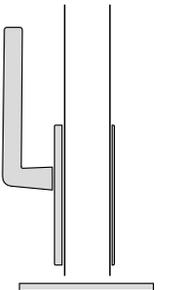
Set Includes:

- 2 Escutcheons
- 2 Handles
- 1 Spindle
- 2 Screws
- 2 Nuts

Trim Options

Function C

Passage

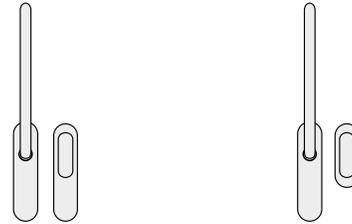


Straight Spindle

Passage Lever by Flush Pull

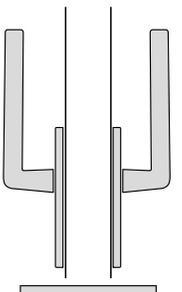
Set Includes:

- 1 Escutcheon
- 1 Handles
- 1 Long or Short Flush Pull
- 1 Spindle
- 2 Screws

Trim Options

Function H

Entrance

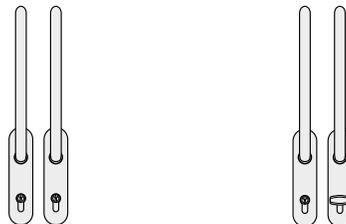


Straight Spindle

Entrance Lever by Lever

Set Includes:

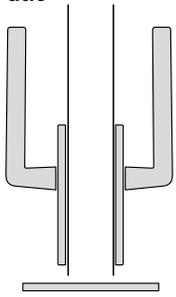
- 2 Escutcheons
- 2 Handles
- 1 Spindle
- 2 Screws
- 2 Nuts

Trim Options

Lift and Slide Sets

Function T

Patio



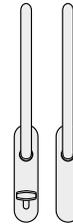
Straight Spindle

Patio Lever by Lever

Set Includes:

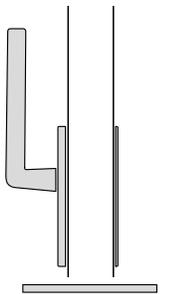
- 2 Escutcheons
- 2 Handle
- 1 Spindle
- 2 Screws
- 2 Nuts

Trim Options



Function T

Patio



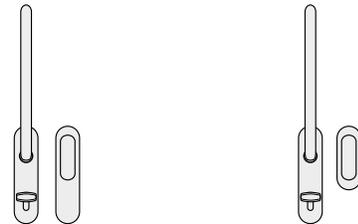
Straight Spindle

Patio Lever by Flush Pull

Set Includes:

- 1 Escutcheon
- 1 Handle
- 1 Long or Short Flush Pull
- 1 Spindle
- 2 Screws

Trim Options



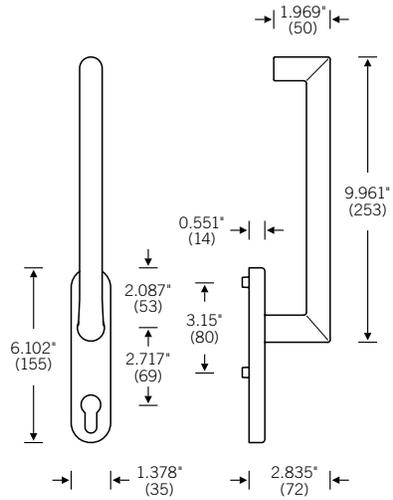
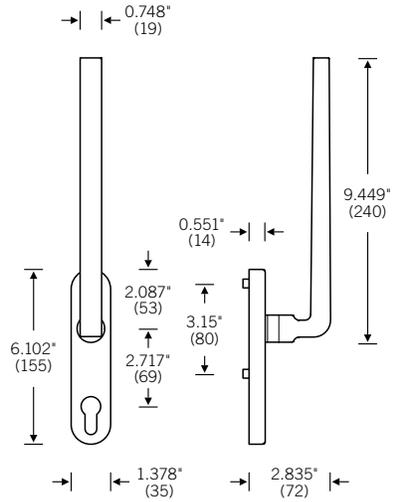
Lift and Slide Handles

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 ■

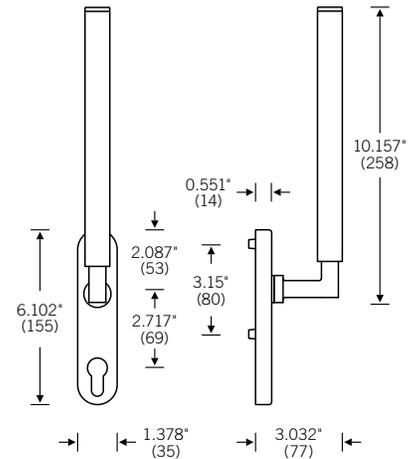
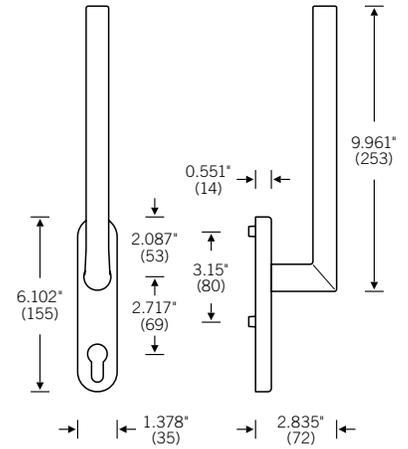


34 1102 ■



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

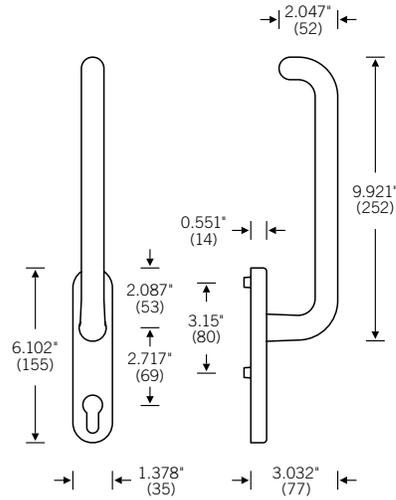
Lift & Slide

Lift and Slide Handles

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

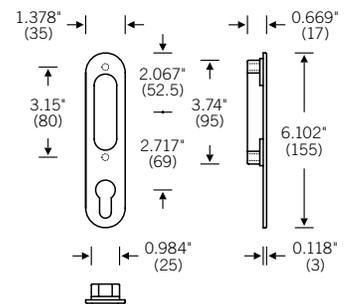
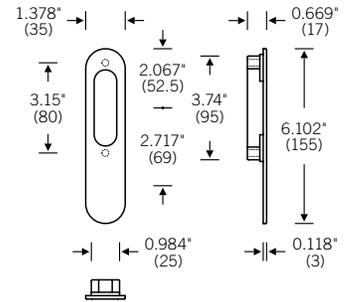
42 4215 



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



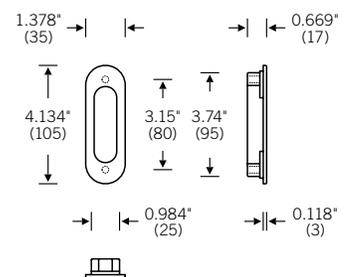
42 4215 01000 



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

Glass Door Locks

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	Lock Functions	Lever Design	Trim Set	Thumbturn and Indicator																																																				
<h3>EGS</h3> <p>Insert your choice of glass door lock</p> <p>EGS European Glass Door Lock, Square Edge EGR European Glass Door Lock, Round Edge EGC European Glass Door Lock, Compact</p>	<h3>C</h3> <p>Insert your choice of function using one of the letter codes below.</p> <p>A Store Door C Passage E Privacy H Entrance</p> <p>European Glass Door Locks do not have Emergency Egress Function.</p>	<h3>1147</h3> <p>Insert your choice of lever or knob design using one of the four digit codes.</p> <p>Premium/Elements</p> <table border="0"> <tr><td>1001*</td><td>1078</td></tr> <tr><td>1002*</td><td>1080</td></tr> <tr><td>1003</td><td>1088</td></tr> <tr><td>1004</td><td>1093</td></tr> <tr><td>1005</td><td>1102</td></tr> <tr><td>1015</td><td>1106</td></tr> <tr><td>1016</td><td>1107</td></tr> <tr><td>1020*</td><td>1108</td></tr> <tr><td>1021</td><td>1119</td></tr> <tr><td>1023</td><td>1134</td></tr> <tr><td>1025</td><td>1144</td></tr> <tr><td>1027</td><td>1146</td></tr> <tr><td>1028</td><td>1147</td></tr> <tr><td>1031</td><td>1160</td></tr> <tr><td>1034*</td><td>1163</td></tr> <tr><td>1035</td><td>1164</td></tr> <tr><td>1045</td><td>1176</td></tr> <tr><td>1051*</td><td>1177</td></tr> <tr><td>1053</td><td>1178</td></tr> <tr><td>1057</td><td>1183</td></tr> <tr><td>1058</td><td>1185*</td></tr> <tr><td>1070</td><td>1241*</td></tr> <tr><td>1074</td><td>1251^</td></tr> <tr><td>1075</td><td>1257*</td></tr> <tr><td>1076</td><td>1259*</td></tr> <tr><td>1077*</td><td></td></tr> </table> <p>^ Stainless Only * Elements Only</p>	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*		<h3>RA</h3> <p>Insert your choice of trim set using one of the two letter codes.</p> <p>Optional Trim Set</p> <p>FL Patch fitting only RA Rose 2 3/16" (55 mm) (EGS + EGR only)</p>	<h3>S</h3> <p>Insert your choice of indicator if necessary.</p> <p>Thumbturns</p> <p> Standard thumbturn available with all roses and escutcheons S</p> <p>Emergency Releases</p> <p> N  I</p>
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*																																																								

Example for Specifying

EGS - H - 1147 - RA - S - 6204 - 231 - E1 - RH - 010

Material and Finish	Backset	Strike	Handing	Door Thickness
<p>6204</p> <p>Insert your choice of material and finish using one of the codes below.</p> <p>Premium Stainless Steel</p> <ul style="list-style-type: none"> ■ 6204 Satin (630) ■ 6205 Polished (629) <p>Elements Aluminum Anodized</p> <ul style="list-style-type: none"> ■ 0105 Natural Color (628) ■ 0205 Champagne Silver Color ■ 0410 Bronze Color ■ 0510 Medium Bronze Color ■ 0710 Dark Bronze Color (710) ■ 0810 Black Color (711) <p>Aluminum Powder Coated</p> <ul style="list-style-type: none"> ■ 8120 Black (671) □ 8220 White (714) 	<p>231</p> <p>Available with 2³/₁₆" backset only</p> <p>231 2³/₁₆" Backset (55 mm)</p>	<p>E1</p> <p>Insert your choice of strike using one of the two letter codes below</p> <p>Standard</p> <p>E1 Standard E2 Full Patch Strike</p>	<p>RH</p> <p>Insert your choice of hand using one of the two letter codes below</p> <p>RH Right Hand LH Left Hand RR Right Hand Reverse LR Left Hand Reverse</p>	<p>010</p> <p>Insert your choice of door thickness using one of the three digit codes.</p> <p>008 8 mm 010 10 mm 012 12 mm</p>

All details subject to modification

European Glass Door Lock for Swinging Doors

Functions

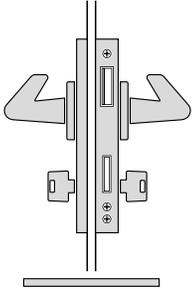
Function A

Store Door

Description

Latch bolt by handle either side.
Deadbolt by key either side.
European profile cylinder.

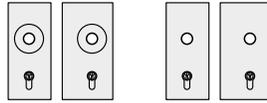
Lever to cylinder center-to-center:
2¹³/₁₆" (72 mm).



Trim Sets

RA

FL

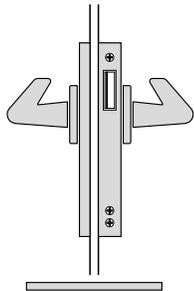


Function C

Passage

Description

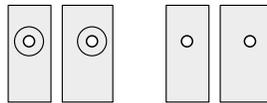
Latch bolt by handle either side.



Trim Sets

RA

FL

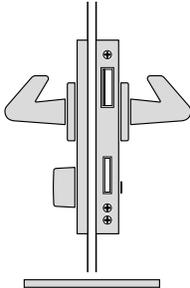


European Glass Door Lock for Swinging Doors

Functions

Function E

Privacy



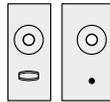
Description

Latch bolt by handle either side.
Deadbolt by emergency release outside and thumbturn inside connected by 8 mm spindle on the square.

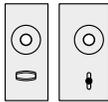
Lever to thumbturn center-to-center:
3 1/16" (78 mm).

Trim Sets

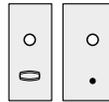
RA-SN



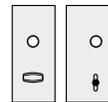
RA-SI



FL-SN

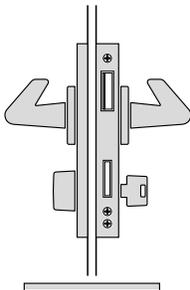


FL-SI



Function H

Entrance



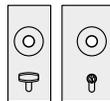
Description

Latch bolt by handle either side.
Deadbolt by key outside and thumbturn inside.
European profile cylinder.

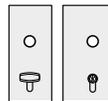
Lever to thumbturn center-to-center:
2 13/16" (72 mm).

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)

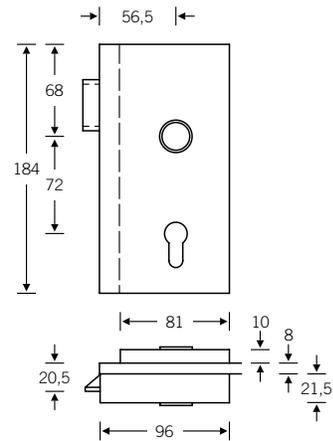
PZ cylinder CTC 72 mm

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)



All details subject to modification

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.

Strike Box for Glass Walls or Pairs

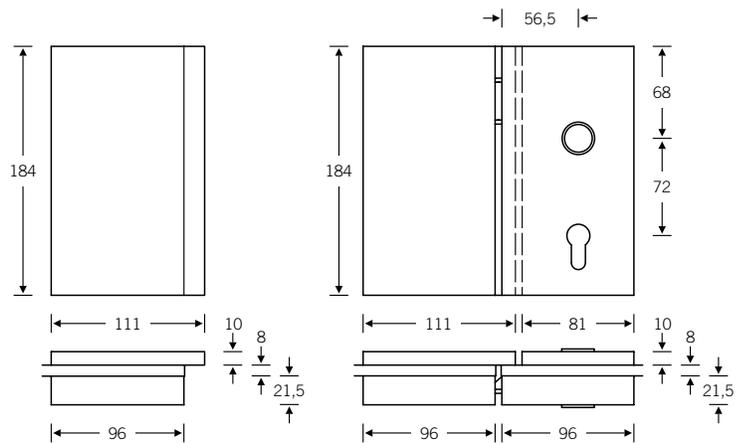


13 4220

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.



All details subject to modification

Glass Door Locks

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.

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)

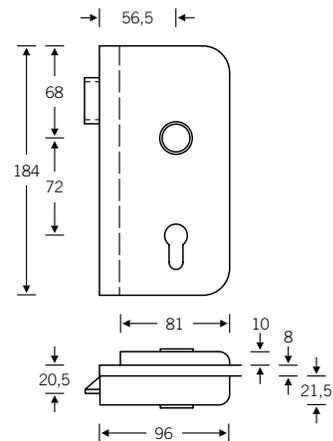
PZ cylinder CTC 72 mm

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)



All details subject to modification

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.

Strike

for Glass Walls or Pairs

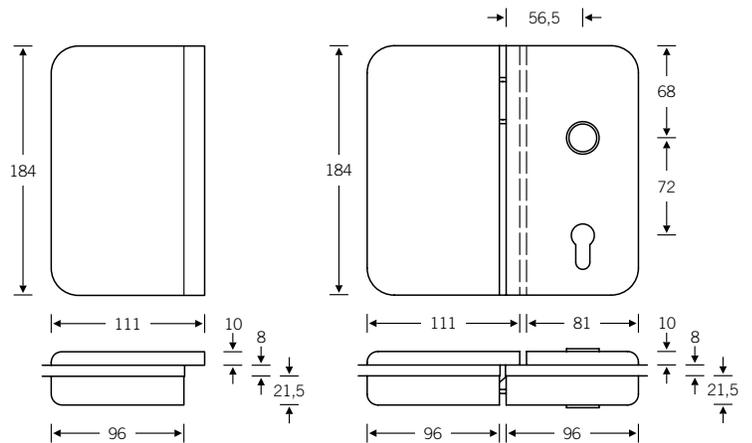


13 4223

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.



All details subject to modification

Glass Door Locks

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.

European Glass Door Lock for Swinging Doors



Series EGC

13 4224 042   (LH)

13 4224 052   (RH)

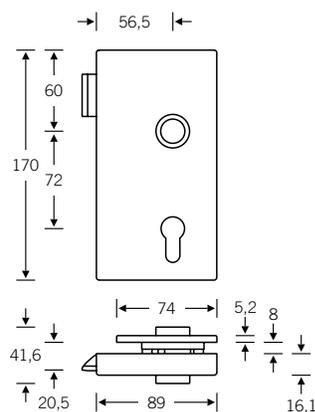
Heavy-duty bearing
Rectangular lockset plate compact with
cover plates with heavy-duty glass door
lock (DIN 18251, Class 4)

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.**



All details subject to modification

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.

Strike

for Glass Walls or Pairs



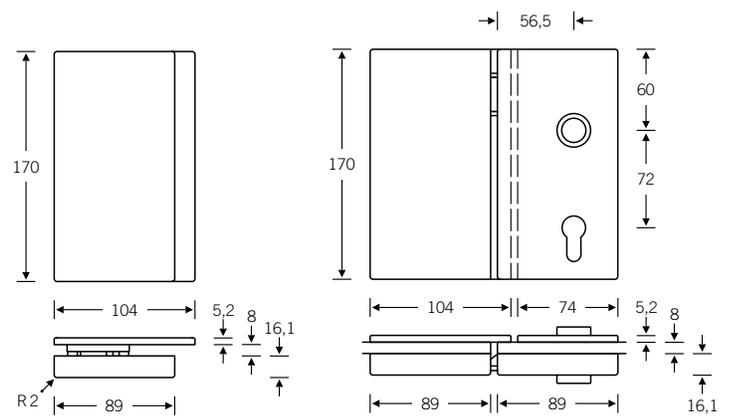
13 4224

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.

All details subject to modification



Technical notes:
 Strike boxes are prepared at the factory for 8 mm, 10 mm or 12 mm glass. Please specify.

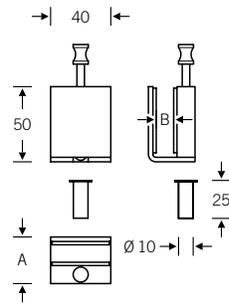
Door Holder



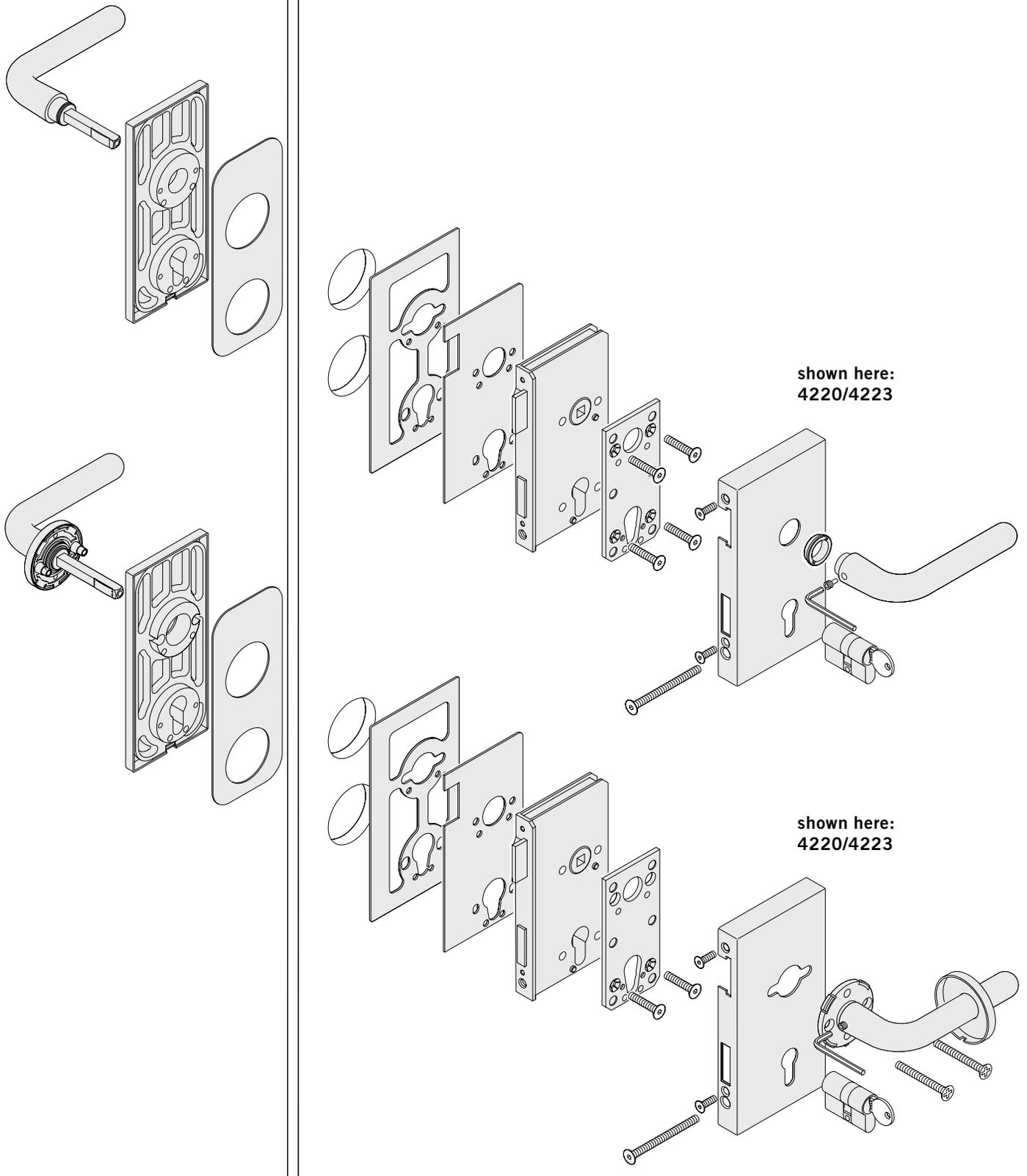
13 4230 ■

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



European Glass Door Lock Installation



All details subject to modification

Glass Door Locks



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



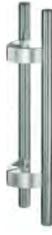
66 6519 
Page 303



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



Door Pulls

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



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

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)**.

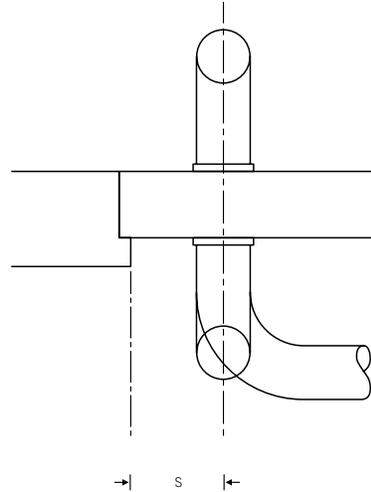
This section has the identifying letters that can be found on all relevant product pages. (Examples show fixing for tubular pulls).

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.

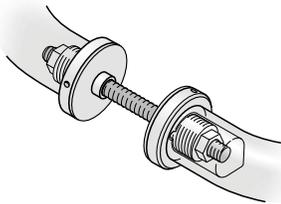
Safety Clearance (S)

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.

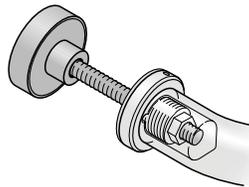
Ideally, safety clearances as recommended by FSB should be adhered to. Nevertheless, conditions at the point of assembly are crucial. It is particularly advisable to make use of offset pulls purpose-designed by FSB for especially narrow stiles, which sets the handle sufficiently far away from the edge.



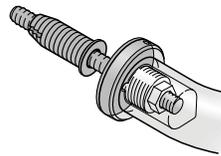
Fastening Methods



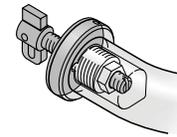
A Back-to-Back Fastening



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

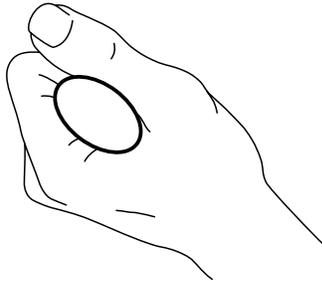
Door Pulls

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.



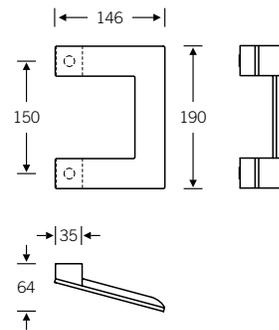
S-Flat Push and Pull Pad Handles

Rectangular

61 6187 ■

Rectangular open
Bracket powder-coated in silver grey

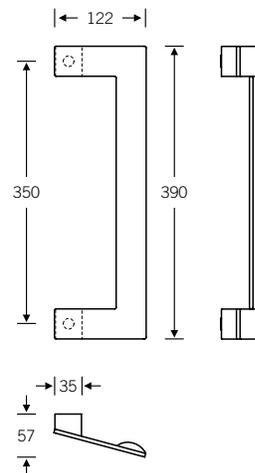
Safety clearance 45 mm
Fastening M8



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

S-Flat Push and Pull Pad Handles

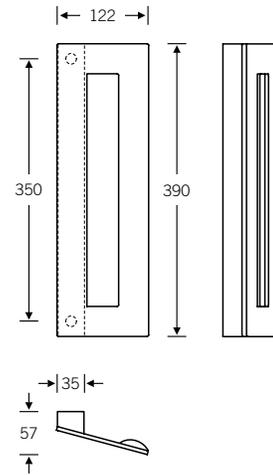
Rectangular

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

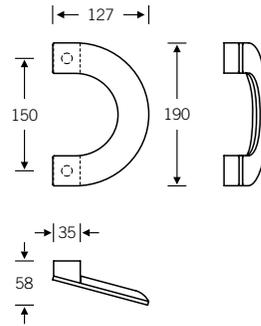
S-Flat Push and Pull Pad Handles

Round

61 6192 ■

Round open
Bracket powder-coated in silver grey

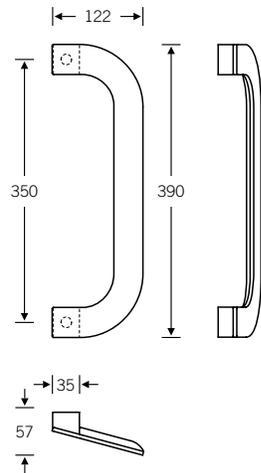
Safety clearance 45 mm
Fastening M8



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

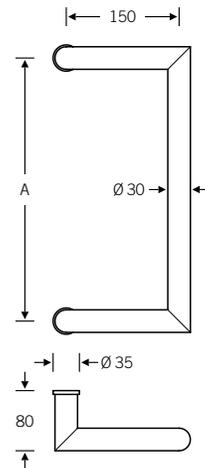
Round Series



66 6514 ■

Items number	A	Ø
66 6514 038	350	30
66 6514 045	450	30

Safety clearance S = 55 mm
Fastening M8



All details subject to modification

Door Pulls

Fastening Methods (Details on page 349 and 350)

- A** Back-to-Back
- B** Through-Bolted
- C** Concealed - Threaded Insert
- D** Concealed - Drop Clamp

Pull Handles

Round Series

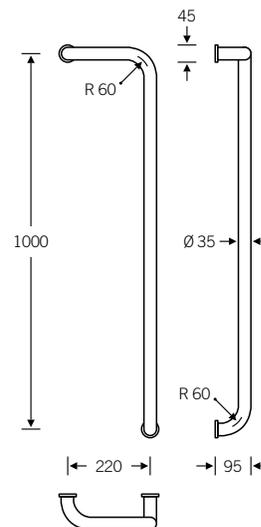


66 6506 

66 6506 065 (RH)
66 6506 075 (LH)

Handle cross-section \varnothing 35 mm
Safety clearance $S = 47$ mm
Fastening M8

Illustration: right hand, outside view



All details subject to modification

Fastening Methods (Details on page 349 and 350)

- A** Back-to-Back
- B** Through-Bolted
- C** Concealed - Threaded Insert
- D** Concealed - Drop Clamp

Pull Handles Round Series

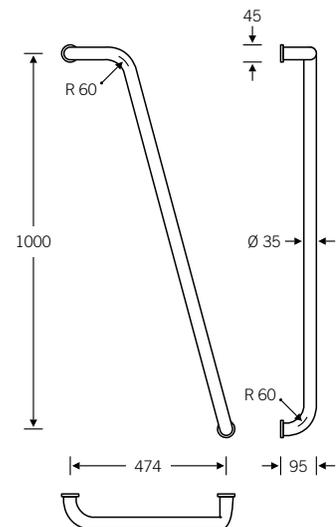


66 6507 

66 6507 065 (RH)
66 6507 075 (LH)

Handle cross-section \varnothing 35 mm
Safety clearance $S = 47$ mm
Fastening M8

Illustration: right hand, outside view



All details subject to modification

Fastening Methods (Details on page 349 and 350)

- A** Back-to-Back
- B** Through-Bolted
- C** Concealed - Threaded Insert
- D** Concealed - Drop Clamp

Pull Handles

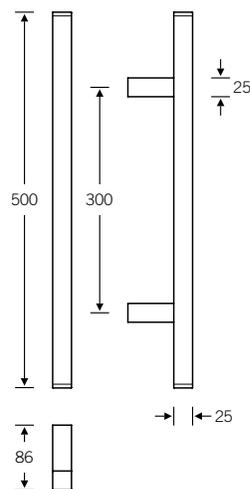
Square Series



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)



All details subject to modification

Fastening Methods (Details on page 353)

- A** Back-to-Back
- B** Through-Bolted
- C** Concealed - Threaded Insert
- D** Concealed - Drop Clamp

Pull Handles

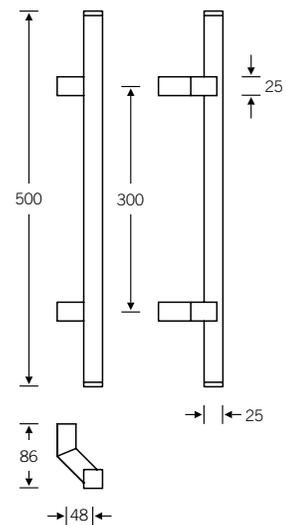
Square Series



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)



All details subject to modification

Door Pulls

Fastening Methods (Details on page 353)

- A** Back-to-Back
- B** Through-Bolted
- C** Concealed - Threaded Insert
- D** Concealed - Drop Clamp

Pull Handles

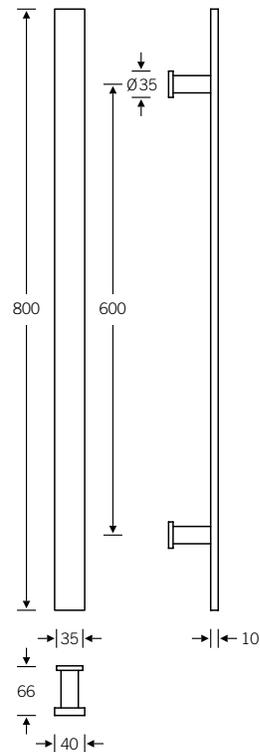
Straight Series



66 6548 ■

Matches FSB lever handle model 1003.
Handle cross-section 40 × 10 mm

Safety clearance S = 55 mm
Fastening M8



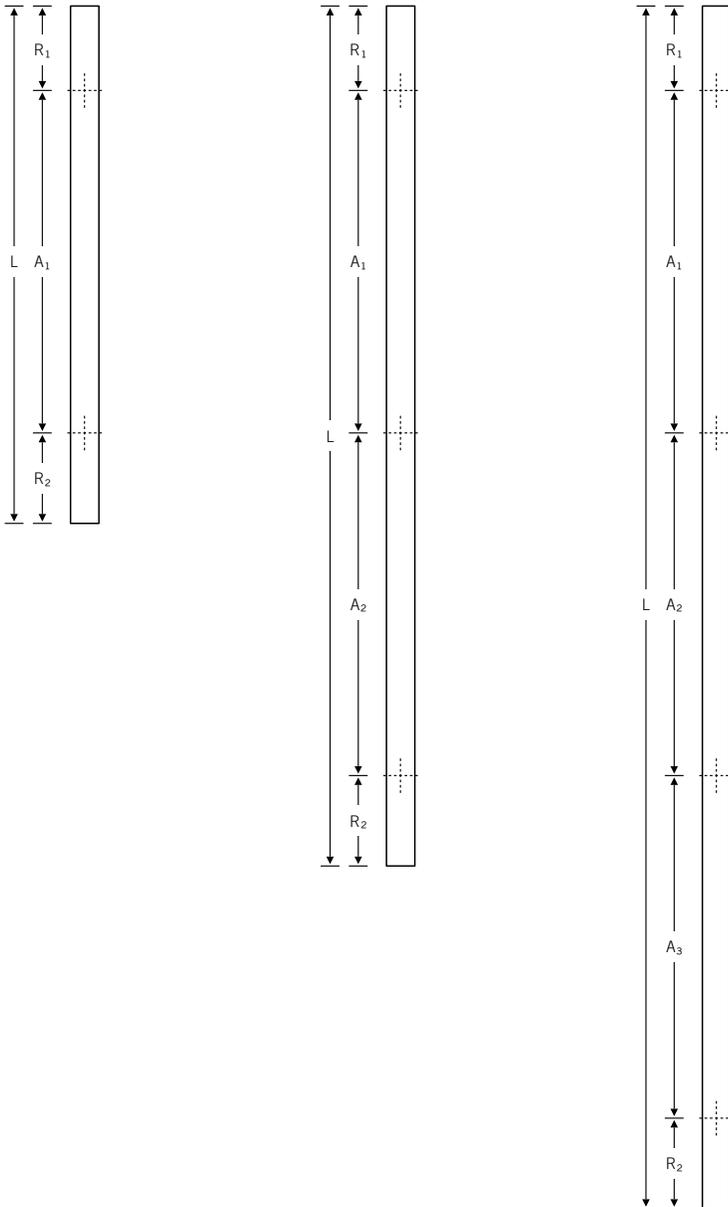
All details subject to modification

Fastening Methods (Details on page 349 and 350)

- A** Back-to-Back
- B** Through-Bolted
- C** Concealed - Threaded Insert
- D** Concealed - Drop Clamp

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.

All details subject to modification

Send custom lengths to FSB for pricing

Quantity	Overall length	Support distance			End support distance*		Fastening type
	L	A ₁	A ₂	A ₃	R ₁	R ₂	

* min. 30 mm, max. 350 mm for 6519, 6520

* min. 30 mm, max. 250 mm for 6548

Pull Handles

Round Series



66 6526 ■■



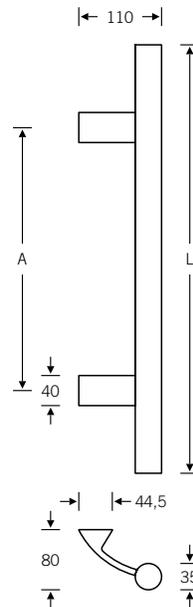
FSB has supplemented its proven and long-successful in-line pull series in aluminum and stainless steel with a particularly safe-to-grip design featuring heavily offset fastening points on which the ends of brackets are incorporated into the pull section. The in-line pull sections are supplied with a 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



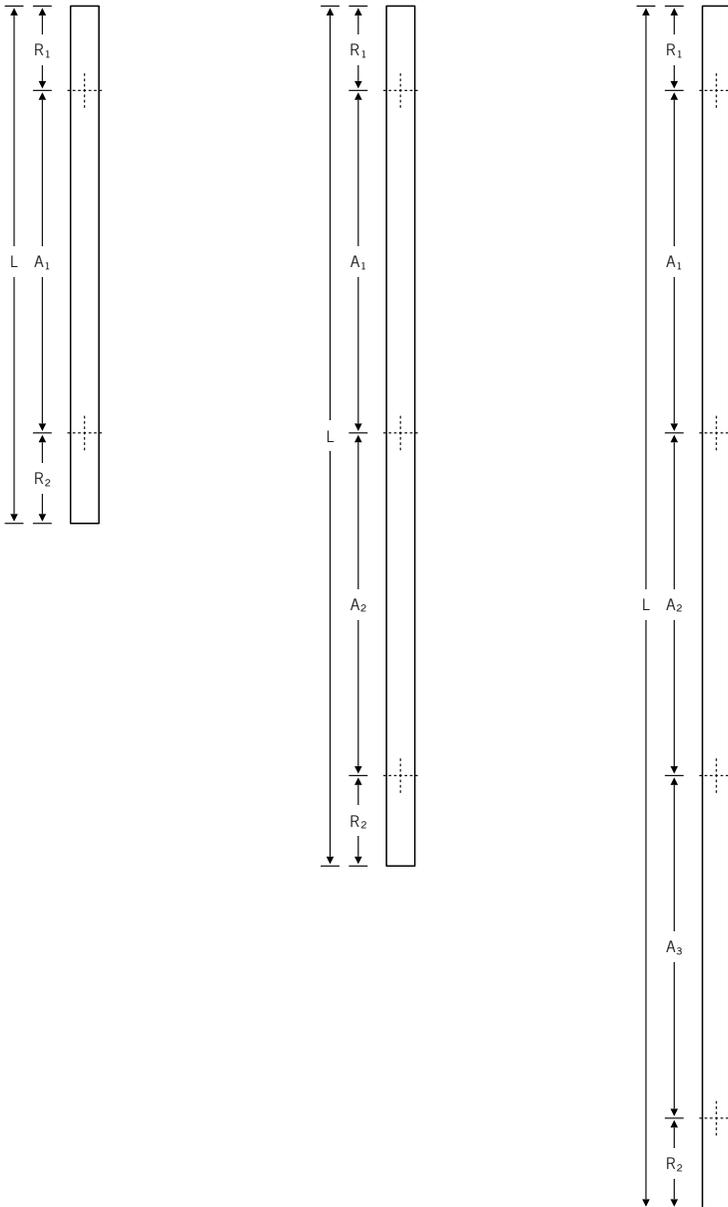
All details subject to modification

Fastening Methods (Details on page 353)

- A** Back-to-Back
- B** Through-Bolted
- C** Concealed - Threaded Insert
- D** Concealed - Drop Clamp

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.

All details subject to modification

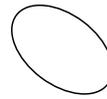
Send custom lengths to FSB for pricing

Quantity	Overall length	Support distance			End support distance*		Fastening type
	L	A ₁	A ₂	A ₃	R ₁	R ₂	

* min. 40 mm, max. 350 mm

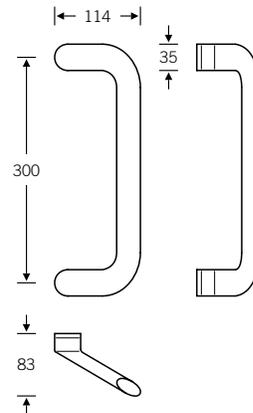
Pull Handles

Oval Series



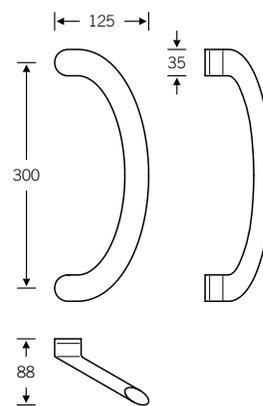
66 6533 ■ ■

Handle cross-section $\varnothing 35 \times 17.5$ mm
Fastening M8



66 6534 ■ ■

Handle cross-section $\varnothing 35 \times 17.5$ 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

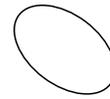
tilted towards the user by dint of a flattened oval cross-section. The hand therefore enjoys optimum clearance while, stylistically, these airy, elegant handles display a decidedly architectural dimension.

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

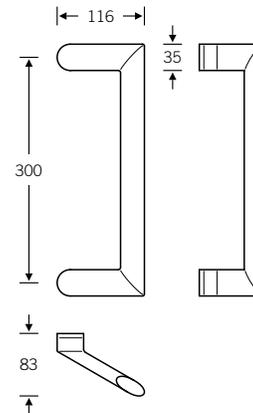
Pull Handles

Oval Series



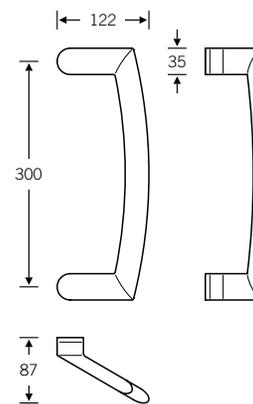
66 6535 

Handle cross-section $\varnothing 35 \times 17.5$ mm
Fastening M8



66 6536 

Handle cross-section $\varnothing 35 \times 17.5$ mm
Fastening M8



All details subject to modification

Door Pulls

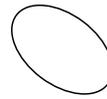
Design: Hartmut Weise

Fastening Methods (Details on page 349 and 350)

- A** Back-to-Back
- B** Through-Bolted
- C** Concealed - Threaded Insert
- D** Concealed - Drop Clamp

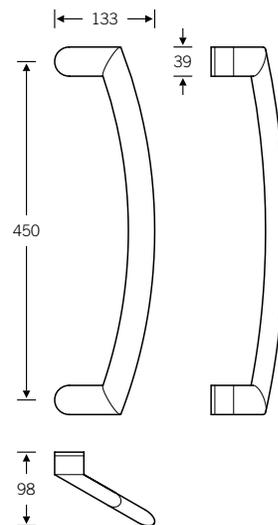
Pull Handles

Oval Series



66 6537 

Handle cross-section $\varnothing 39 \times 20$ mm
Fastening M8



All details subject to modification

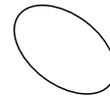
Design: Hartmut Weise

Fastening Methods (Details on page 349 and 350)

- A** Back-to-Back
- B** Through-Bolted
- C** Concealed - Threaded Insert
- D** Concealed - Drop Clamp

Pull Handles

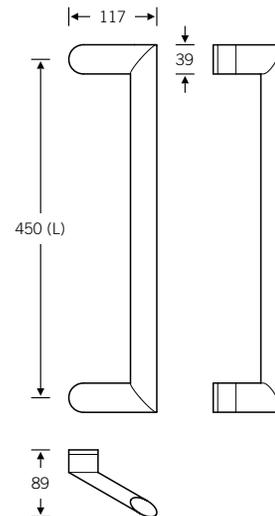
Oval Series



66 6538 

Handle cross-section $\varnothing 39 \times 20$ mm
Fastening M8

Special lengths up to 1200 mm are available in stainless steel.
Order 6538 099 and the length (L) in parenthesis.



All details subject to modification

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

Pull Handles

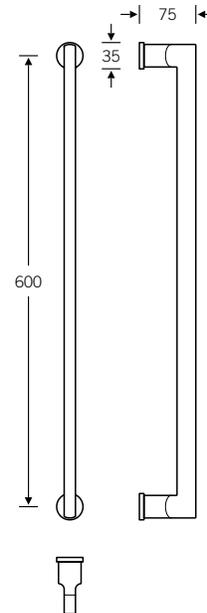
Round Series



66 6540 ■

Matches FSB lever handle model 1035.

Safety clearance S = 45 mm



All details subject to modification

Door Pulls

Fastening Methods (Details on page 349 and 350)

- A** Back-to-Back
- B** Through-Bolted
- C** Concealed - Threaded Insert
- D** Concealed - Drop Clamp

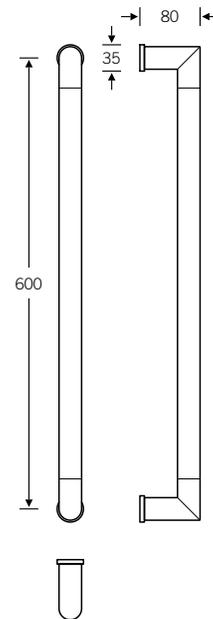
Pull Handles Round Series



66 6541

Matches FSB lever handle model 1077.
Grip Stainless Steel, Corners Aluminum

Safety clearance S = 51 mm



All details subject to modification

Door Pulls

Fastening Methods (Details on page 349 and 350)

- A** Back-to-Back
- B** Through-Bolted
- C** Concealed - Threaded Insert
- D** Concealed - Drop Clamp

Pull Handles

Round Series

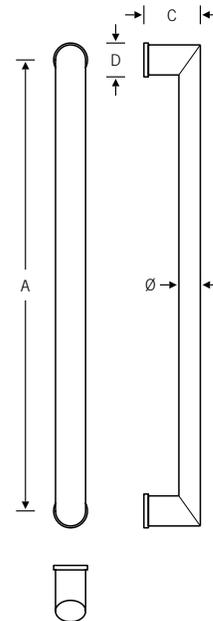


66 6542 ■

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



All details subject to modification

Fastening Methods (Details on page 349 and 350)

- A** Back-to-Back
- B** Through-Bolted
- C** Concealed - Threaded Insert
- D** Concealed - Drop Clamp

Pull Handles Round Series

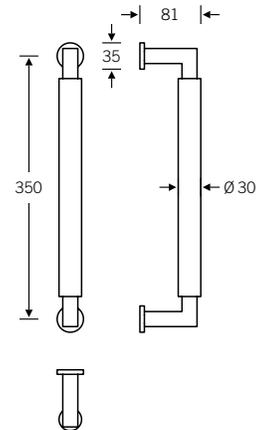


66 6546 ■



Matches FSB lever handle model 1102.
Available length up to 1200 mm.

Safety clearance $S = 51$ mm
Fastening M8

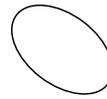


Fastening Methods (Details on page 349 and 350)

- A** Back-to-Back
- B** Through-Bolted
- C** Concealed - Threaded Insert
- D** Concealed - Drop Clamp

Pull Handles

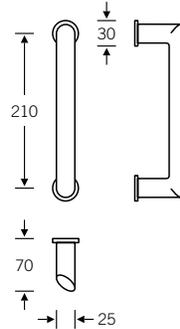
Oval Series



66 6610

Matches FSB lever handle model 1025.

Safety clearance S = 45 mm
Fastening M6

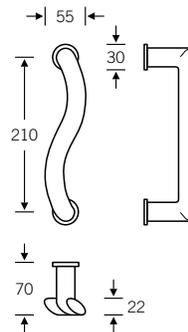


66 6611

Matches FSB lever handle model 1028.

Safety clearance S = 60 mm
Fastening M6

Illustration: right hand, outside view



Design: Hartmut Weise

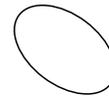
Fastening Methods (Details on page 351)

- A** Back-to-Back
- B** Through-Bolted
- C** Concealed - Threaded Insert

All details subject to modification

Pull Handles

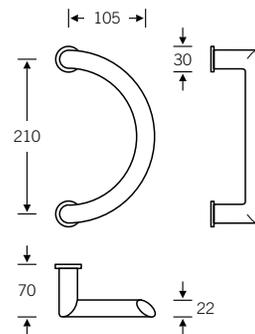
Oval Series



66 6612 ■ ■

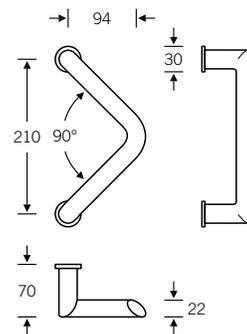
Matches FSB lever handle model 1026.

Safety clearance S = 48 mm
Fastening M6



66 6613 ■ ■

Safety clearance S = 48 mm
Fastening M6



All details subject to modification

Door Pulls

Design: Hartmut Weise

Fastening Methods (Details on page 351)

- A** Back-to-Back
- B** Through-Bolted
- C** Concealed - Threaded Insert

Pull Handles

Round Series



66 6602



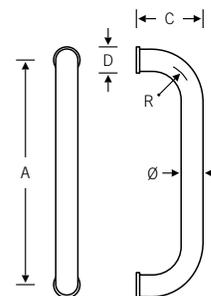
Item number	A	Ø	R	C	D	S
66 6670 034	200	25	40	80	35	48
66 6670 037	300	25	40	80	35	48
66 6670 038	350	25	40	80	35	48
66 6602 038	350	30	55	90	35	51
66 6603 038	350	35	60	95	45	56
66 6604 038	350	40	60	105	45	65
66 6670 099	200–1200	25	40	80	35	48
66 6602 099	300–1200	30	55	90	35	51
66 6603 099	300–1200	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



All details subject to modification

Fastening Methods (Details on page 349 and 350)

- A** Back-to-Back
- B** Through-Bolted
- C** Concealed - Threaded Insert
- D** Concealed - Drop Clamp

Pull Handles

Round Series



66 6669 



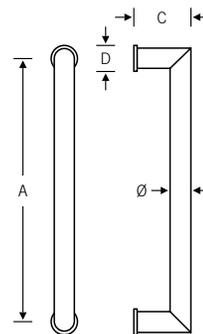
Item number	A	Ø	C	D	S
66 6606 038	350	25	75	35	50
66 6669 038	350	30	80	35	55
66 6607 038	350	35	85	45	57
66 6609 038	350	40	90	45	60
66 6669 099	Special length	30			
66 6609 099	Special length	40			

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



All details subject to modification

Door Pulls

Fastening Methods (Details on page 349 and 350)

- A** Back-to-Back
- B** Through-Bolted
- C** Concealed - Threaded Insert
- D** Concealed - Drop Clamp

Pull Handles

Round Series



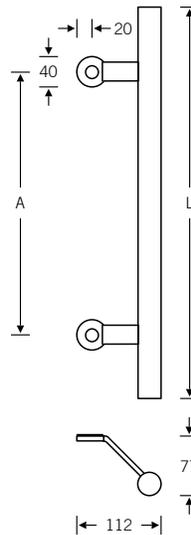
66 6615 ■

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.



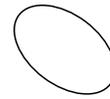
Fastening Methods (Details on page 352)

- A** Back-to-Back
- B** Through-Bolted
- C** Concealed - Threaded Insert

All details subject to modification

Pull Handles

Oval Series



66 6616 ■

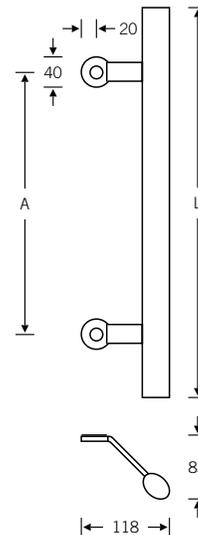
Item number	A	Ø	L
66 6616 035	350	40 × 28	550
66 6616 045	450	40 × 28	650
66 6616 099	451–2100	40 × 28	650



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.

All details subject to modification



Fastening Methods (Details on page 352)

- A** Back-to-Back
- B** Through-Bolted
- C** Concealed - Threaded Insert

Door Pulls

Pull Handles

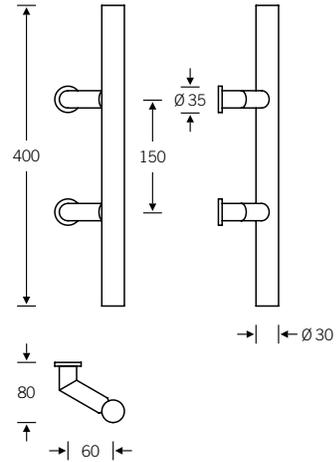
Round Series



66 6630 ■

Handle cross-section \varnothing 30 mm
Fastening M8

Standard length 400 mm

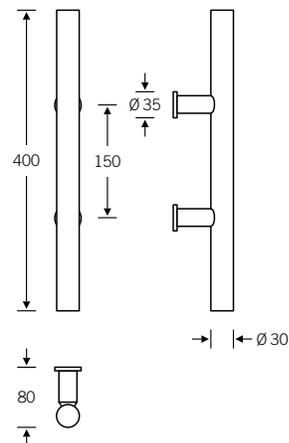


66 6681 ■ ■

Handle cross-section \varnothing 30 mm
Safety clearance $S = 38$ mm
Fastening M8

Standard length 400 mm

Bronze available only in \varnothing 30 mm



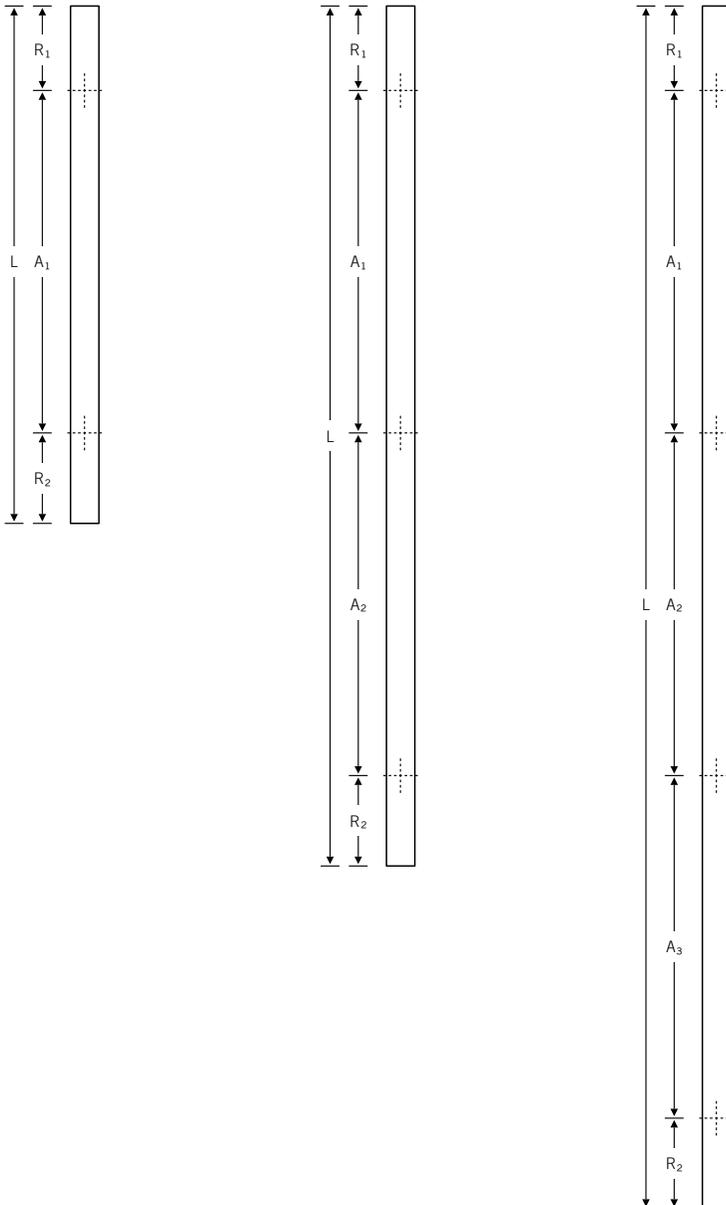
All details subject to modification

Fastening Methods (Details on page 349 and 350)

- A** Back-to-Back
- B** Through-Bolted
- C** Concealed - Threaded Insert
- D** Concealed - Drop Clamp

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)



All details subject to modification

Send custom lengths to FSB for pricing

Quantity	Overall length L	Support distance			End support distance*		Fastening type
		A ₁	A ₂	A ₃	R ₁	R ₂	

* min. 30 mm, max. 350 mm

Pull Handles

Round Series

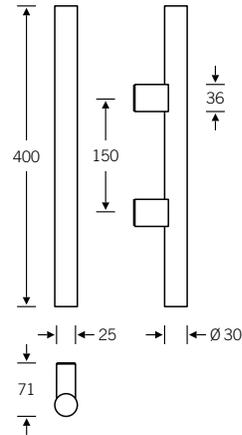


66 6642 



Handle cross-section \varnothing 30 mm
 Safety clearance $S = 38$ mm
 Fastening M6

Standard length 400 mm.
 Maximum length for dark anodized
 aluminum finishes is 1000 mm.

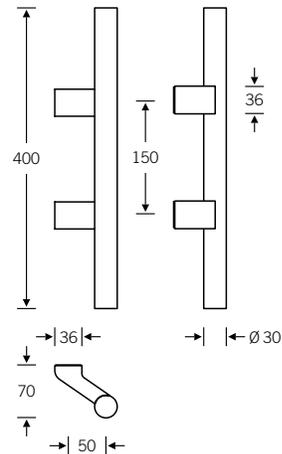


66 6643 



Handle cross-section \varnothing 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

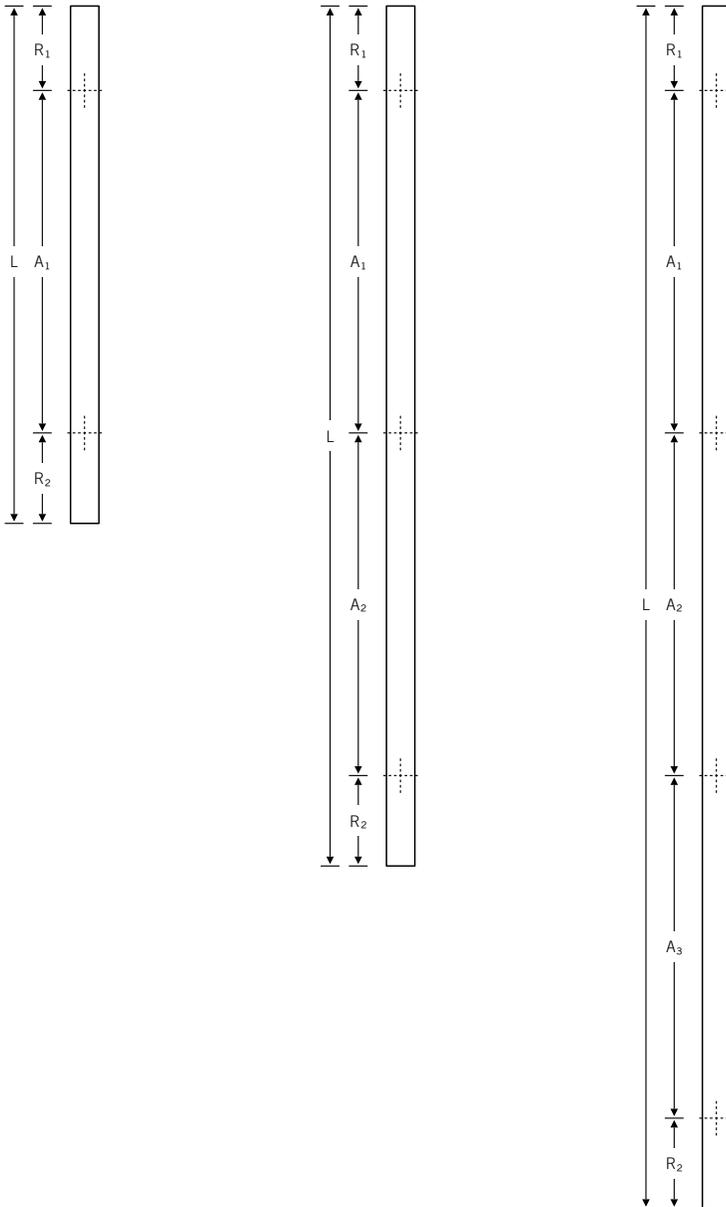
Fastening Methods (Details on page 354)

- 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)



All details subject to modification

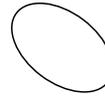
Send custom lengths to FSB for pricing

Quantity	Overall length	Support distance			End support distance*		Fastening type
	L	A ₁	A ₂	A ₃	R ₁	R ₂	

* min. 40 mm, max. 350 mm

Pull Handles

Oval Series



66 6635 ■

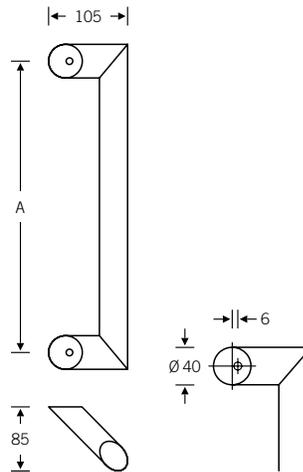
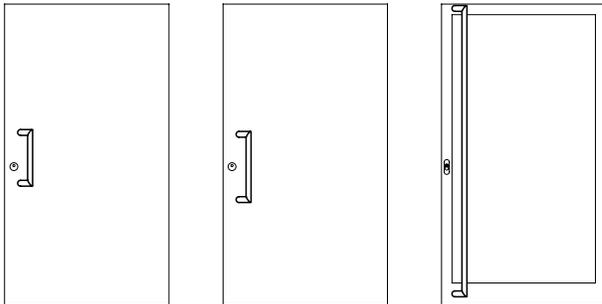
Item number	A	Ø
66 6635 038	350	40 × 28
66 6635 045	450	40 × 28
66 6635 099	451–2100	40 × 28



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



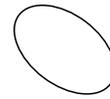
All details subject to modification

Fastening Methods (Details on page 348)

- A** Back-to-Back
- B** Through-Bolted
- C** Concealed - Threaded Insert

Pull Handles

Oval Series



66 6650 ■

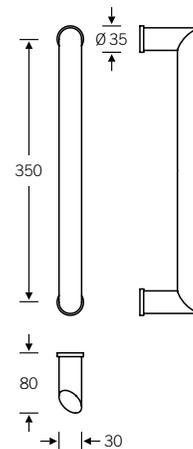


Item number	A	Ø
66 6650 038	350	36 × 22
66 6650 099	351–1500	36 × 22

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



All details subject to modification

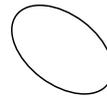
Door Pulls

Fastening Methods (Details on page 349 and 350)

- A** Back-to-Back
- B** Through-Bolted
- C** Concealed - Threaded Insert
- D** Concealed - Drop Clamp

Pull Handles

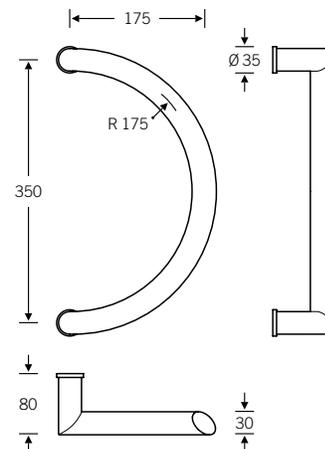
Oval Series



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 $\varnothing 36 \times 22$ mm
Safety clearance $S = 53$ mm
Fastening M8



All details subject to modification

Fastening Methods (Details on page 349 and 350)

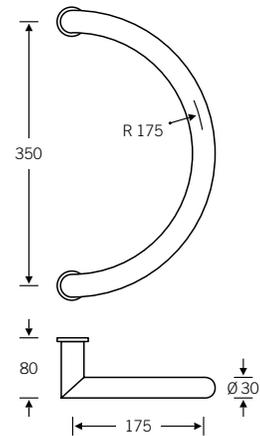
- A** Back-to-Back
- B** Through-Bolted
- C** Concealed - Threaded Insert
- D** Concealed - Drop Clamp

Pull Handles Round Series



66 6653 ■

Handle cross-section \varnothing 30 mm
Safety clearance $S = 55$ mm
Fastening M8



All details subject to modification

Door Pulls

Fastening Methods (Details on page 349 and 350)

- A** Back-to-Back
- B** Through-Bolted
- C** Concealed - Threaded Insert
- D** Concealed - Drop Clamp

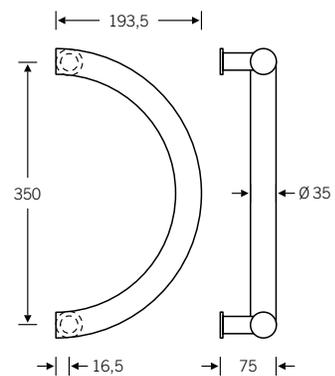
Pull Handles

Round Series



66 6655 ■■■

Handle cross-section \varnothing 35 mm
Safety clearance S = 55 mm
Fastening M8



All details subject to modification

Fastening Methods (Details on page 349 and 350)

- A** Back-to-Back
- B** Through-Bolted
- C** Concealed - Threaded Insert
- D** Concealed - Drop Clamp

Pull Handles

Round Series



66 6662



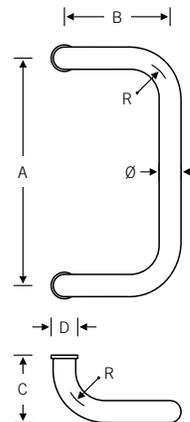
Item number	A	Ø	R	B	C	D	S
66 6661 034	200	25	40	100	80	35	42
66 6661 037	300	25	40	100	80	35	42
66 6661 038	350	25	40	100	80	35	42
66 6662 038	350	30	55	140	90	35	43
66 6663 038	350	35	60	140	95	45	45
66 6664 038	350	40	60	150	120	45	52
66 6661 099	200-1200	25	40	100	80	35	42
66 6662 099	300-1200	30	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.



All details subject to modification

Door Pulls

Fastening Methods (Details on page 349 and 350)

- A** Back-to-Back
- B** Through-Bolted
- C** Concealed - Threaded Insert
- D** Concealed - Drop Clamp

Pull Handles

Round Series

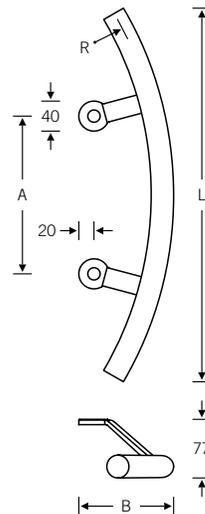


66 6674 ■

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.



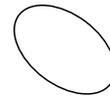
All details subject to modification

Fastening Methods (Details on page 352)

- A** Back-to-Back
- B** Through-Bolted
- C** Concealed - Threaded Insert

Pull Handles

Oval Series

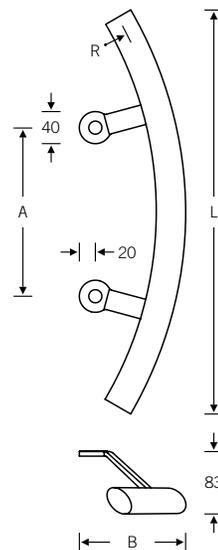


66 6675 ■

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.



All details subject to modification

Fastening Methods (Details on page 352)

- A** Back-to-Back
- B** Through-Bolted
- C** Concealed - Threaded Insert

Pull Handles

Round Series

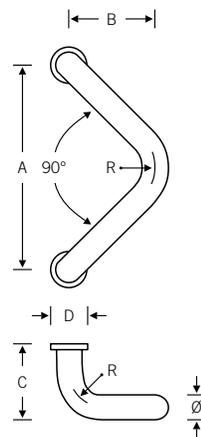


66 6679

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



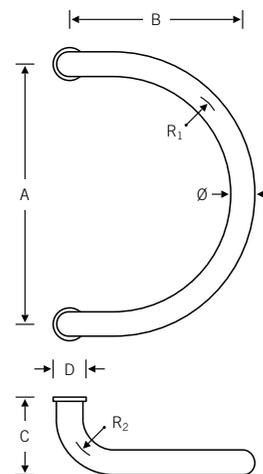
66 6683

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)

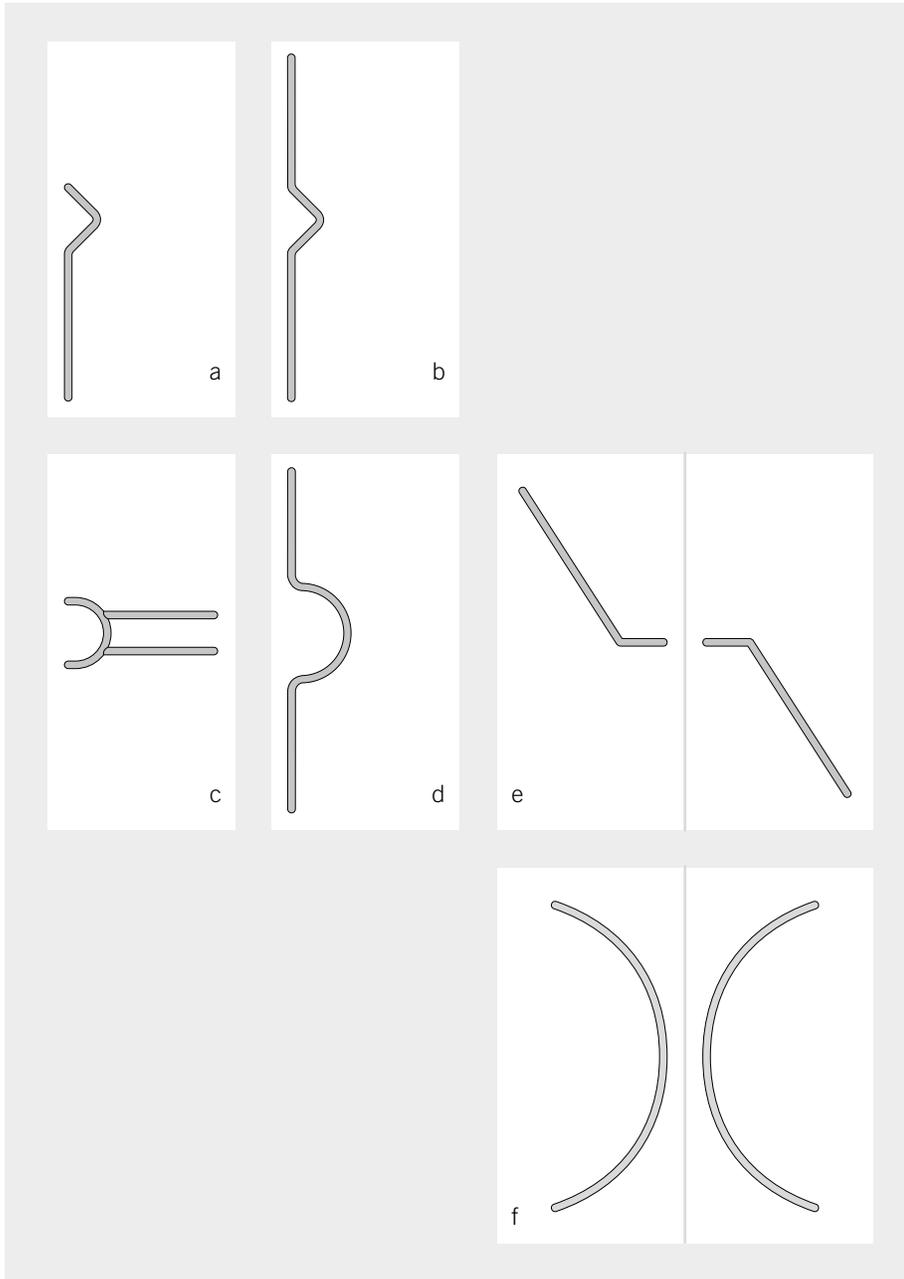
- A** Back-to-Back
- B** Through-Bolted
- C** Concealed - Threaded Insert
- D** Concealed - Drop Clamp

All details subject to modification

Door Pulls

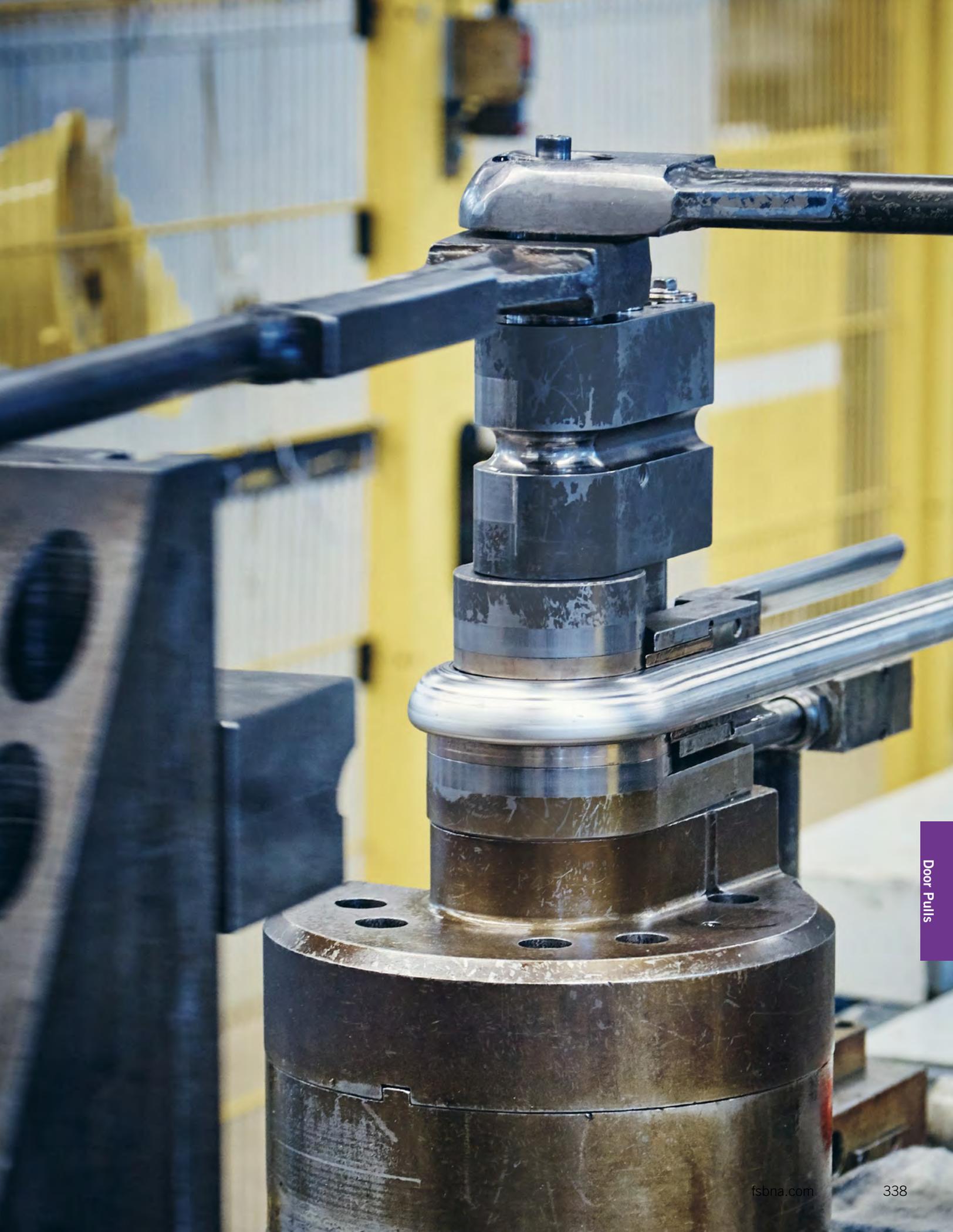
Design Suggestions

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.

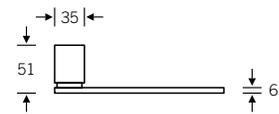
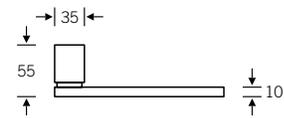
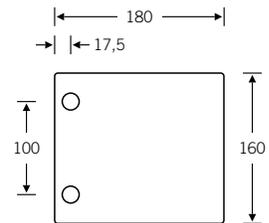


Push and Pull Pad Handles

61 6108 

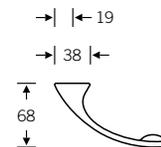
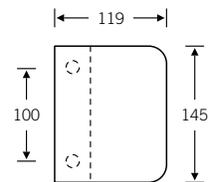
Available in:
Bracket: Aluminum | Pad: Aluminum
Bracket: Aluminum | Pad: Stainless Steel

Safety clearance 45 mm
Fastening M8



61 6112 

Fastening M6



For detailed information on fastening,
please turn to page 353 and 354.

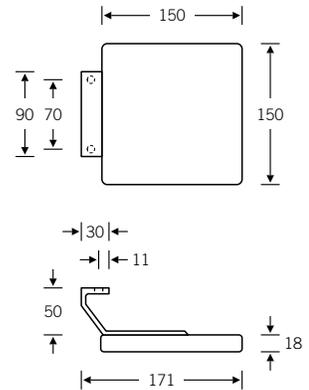
All details subject to modification

Push and Pull Pad Handles

61 6184 ■

Plastic-pad, black

Safety clearance 45 mm



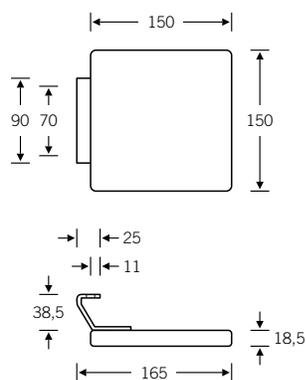
Screw hole \varnothing 8.5 mm
Fastening M8

Push and Pull Pad Handles

61 6254 ■

61 6254 00062

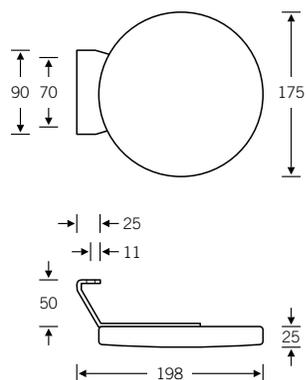
Safety clearance 45 mm



61 6268 ■

61 6268 00000

Safety clearance 40 mm



Screw hole \varnothing 8.5 mm
Fastening M8

All details subject to modification

S-Flat Push and Pull Pad Handles

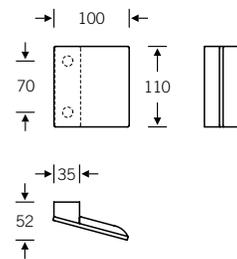
Square + Circle

61 6186 ■



Bracket powder-coated in silver grey

Safety clearance 45 mm
Fastening M8

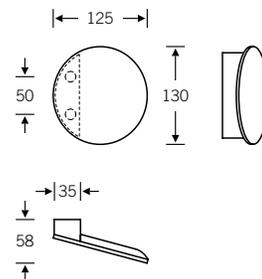


61 6191 ■



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.

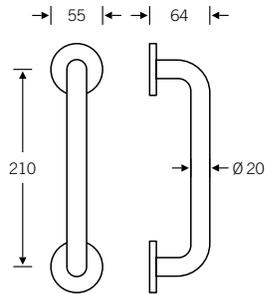
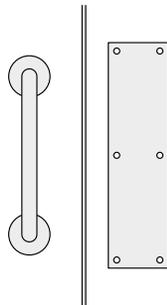
All details subject to modification

Door Pulls

Pull Handles

66 6628 

Fittings feature two fixing points concealed by a clip-on cover

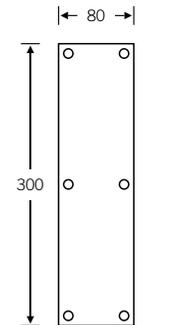
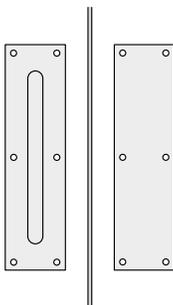
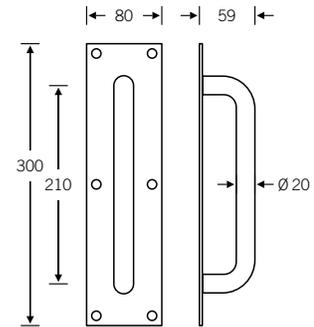


Double-action swing doors in restaurants, canteens, hospitals and so forth are generally fitted with both push and pull plates for added protection. An alternative arrangement is conceivable in the gripping area, however. Furnishing the two faces of the door with the combination shown above allows the desired direction of swing to be implied.

Pull Handles

66 6629 | 51 5325

5325 counterplate to 6629



All details subject to modification

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

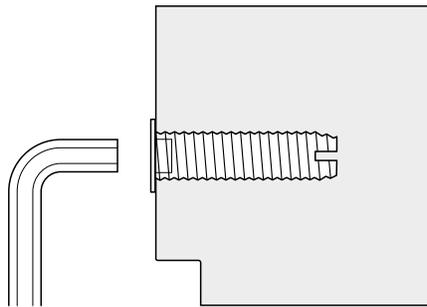
FSB's Threaded Insert Fastening Method



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 (1/2") 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".

FSB Clamping Rose Fastening

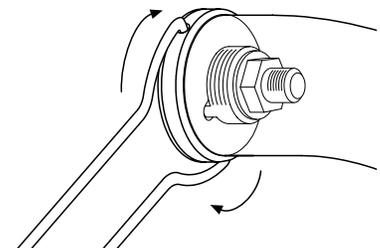
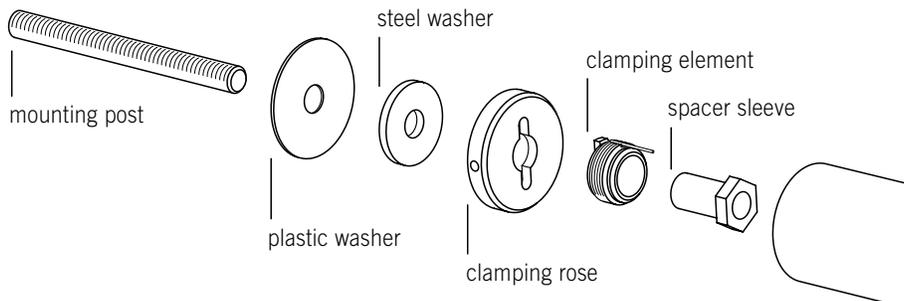


The FSB clamping rose fastening is a method of assembling door-pulls whereby the pull is tightened fast against the surface of the door. Visible fastening screws are done away with.

All door pulls with round necks are supplied as female parts with an internal left-handed thread $18 \times 1.5 \text{ mm}$ ($2\frac{3}{32} \times \frac{1}{16}$ " (M8 fastening) or $14 \times 1.5 \text{ mm}$ ($\frac{9}{16} \times \frac{1}{16}$ " (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:



All details subject to modification

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.

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.

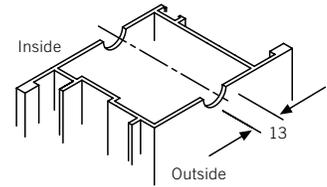
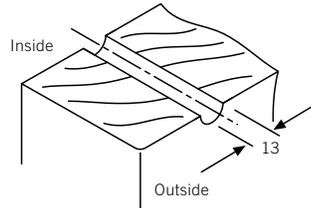
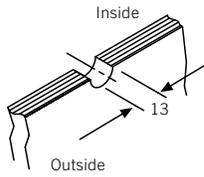
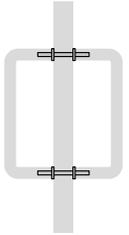
Fastening Method

Glass Door

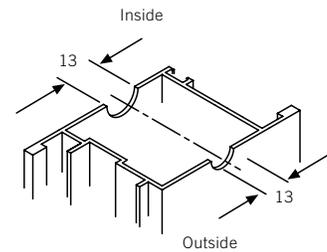
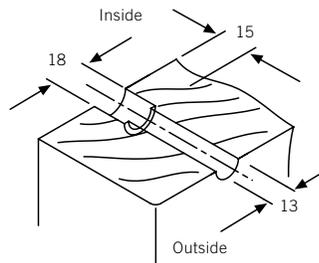
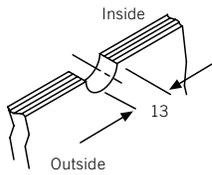
Wood Door

Metal Door

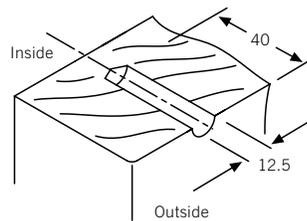
A Back-to-Back Fastening



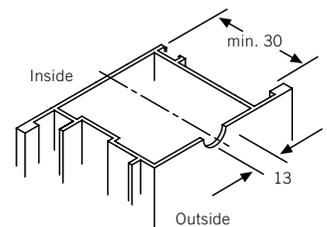
B Through-Bolted Fastening



C Concealed Fastening with Threaded Insert



D Concealed Fastening with Drop Clamp



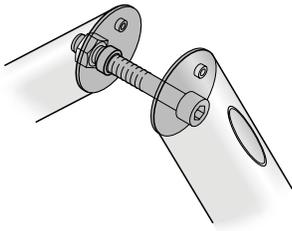
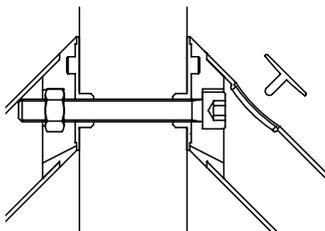
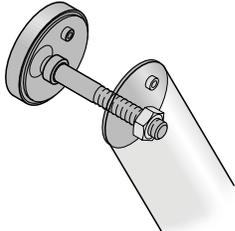
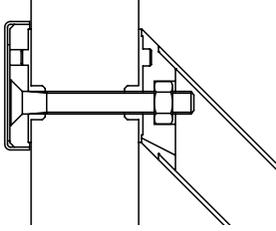
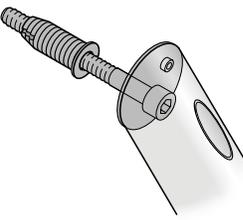
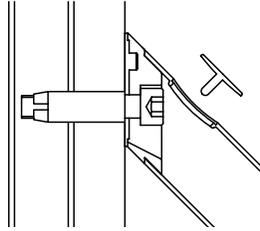
Fastening Methods

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 8 – 19 mm
			05 0582 03038 38 – 44 mm
			05 0582 03045 45 – 49 mm
			05 0582 03050 50 – 54 mm
			05 0582 03055 55 – 59 mm
			05 0582 03060 60 – 64 mm
			05 0582 03065 65 – 69 mm
			05 0582 03070 70 – 74 mm
			05 0582 03075 75 – 79 mm
05 0582 03080 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 8 – 19 mm
			05 0582 04038 38 – 44 mm
			05 0582 04045 45 – 49 mm
			05 0582 04050 50 – 54 mm
			05 0582 04055 55 – 59 mm
			05 0582 04060 60 – 64 mm
			05 0582 04065 65 – 69 mm
			05 0582 04070 70 – 74 mm
			05 0582 04075 75 – 79 mm
05 0582 04080 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

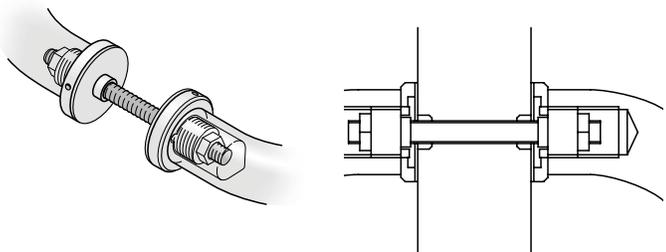
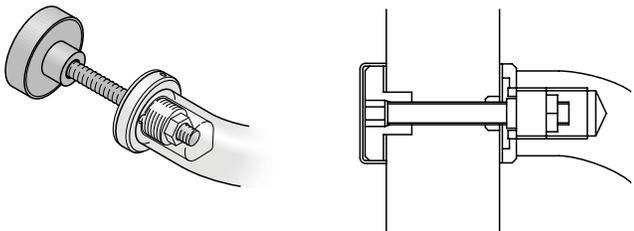
Door Pulls

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

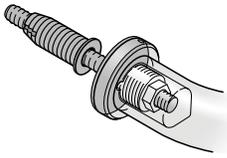
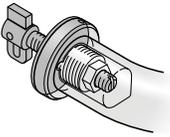
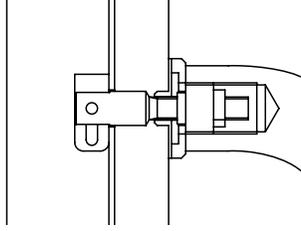
All details subject to modification

Fastening Methods

Door Pulls

Pull Handle Series Round M8

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	
	C Concealed Fastening with Threaded Insert	2 each set screws M8 2 each expansion plugs brass dull nickel finish	05 0580 00335 Length of dowel	34 mm
		Borehole Ø 12.5 mm (wood doors)		
	D Concealed Fastening with Drop Clamp	1 plastic washer 1 clamp	05 0580 09002 2 – 15 mm 05 0580 09016 16 – 30 mm	
				
		Borehole Ø 13 mm (metal doors)		

All details subject to modification

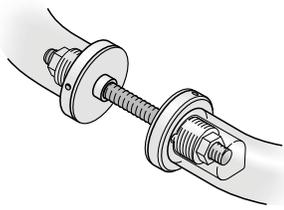
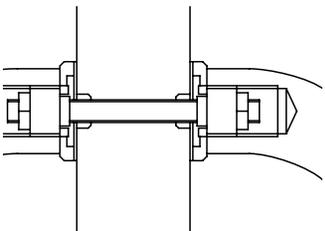
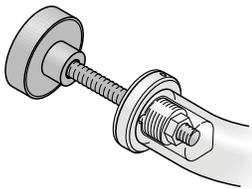
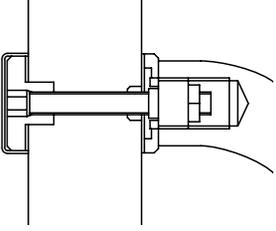
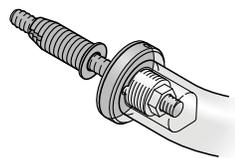
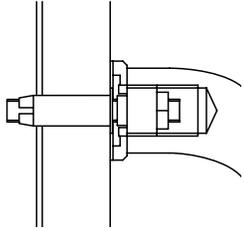
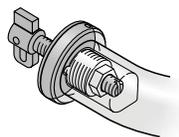
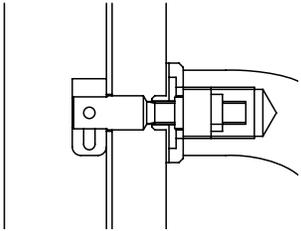
Door Pulls

Fastening Methods

Door Pulls

Pull Handle Series Round M6

66 6610, 66 6611, 66 6612,
66 6613

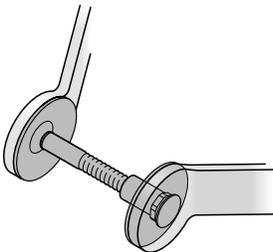
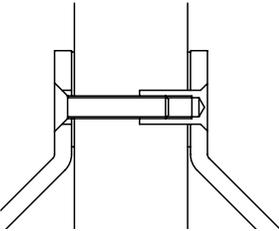
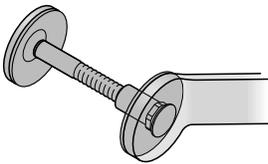
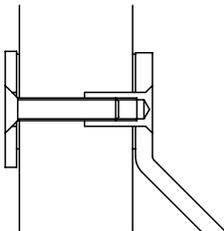
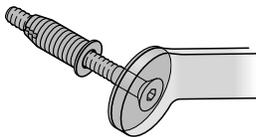
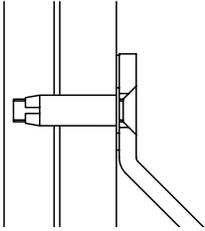
	Fastening Method	Fastening Accessories	Item Number
		2 each set screws M6 Borehole Ø 13 mm	05 0580 01208 Glass door 8 – 19 mm
			05 0580 03235 35 – 54 mm
			05 0580 03255 55 – 74 mm
			05 0580 03275 75 – 94 mm
		2 each set screws M6 2 each fastening nuts with caps Borehole Ø 13/18 mm, please turn to 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
		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
		1 plastic washer 1 clamp Borehole Ø 13 mm (metal doors)	05 0580 09202 2 – 15 mm
			05 0580 09216 16 – 30 mm

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 4 each plastic washers	05 0583 01008	Glass door 8 – 19 mm		
			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 2 each washers stainless steel 4 each plastic washers	05 0583 02008	Glass door 8 – 19 mm		
			05 0583 04036	36 – 45 mm		
			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 2 each expansion plugs brass dull nickel finish 2 each plastic washers	05 0583 00335	Length of dowel 34 mm		
					Borehole Ø 12.5 mm (wood doors)	

All details subject to modification

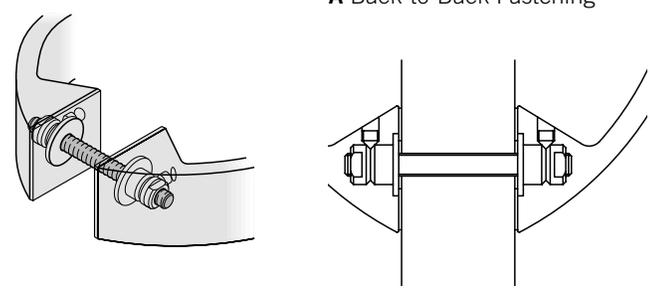
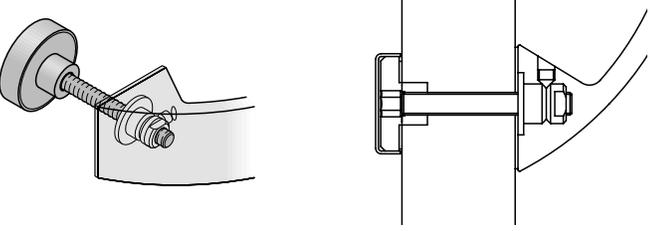
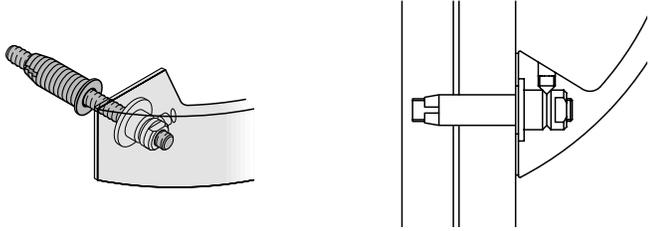
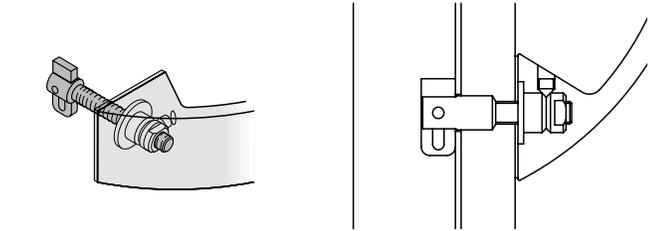
Door Pulls

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

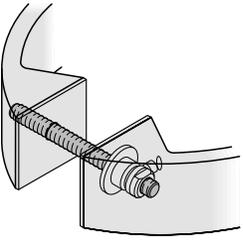
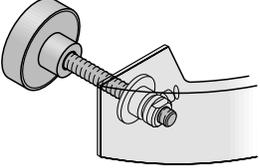
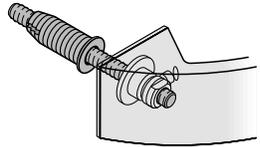
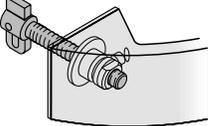
	Fastening Method	Fastening Accessories	Item Number
	A Back-to-Back Fastening	2 each set screws M8	05 0587 01008 Glass door 8 – 19 mm
			05 0587 03035 35 – 54 mm
			05 0587 03055 55 – 74 mm
			05 0587 03075 75 – 94 mm
			Borehole Ø 13 mm
	B Through-Bolted Fastening	2 each set screws M8 2 each fastening nuts with caps	05 0587 02308 Glass door 8 – 19 mm
			05 0587 04335 35 – 44 mm
			05 0587 04345 45 – 54 mm
			05 0587 04355 55 – 64 mm
			05 0587 04365 65 – 74 mm
			05 0587 04375 75 – 84 mm
		Borehole Ø 13/18 mm, please turn to page 347.	
	C Concealed Fastening with Threaded Insert	2 each set screws M8 2 each expansion plugs brass dull nickel finish	05 0587 00335 Length of dowel 34 mm
			Borehole Ø 12.5 mm (wood doors) Ø 13 mm (metal/plastic doors)
	D Concealed Fastening with Drop Clamp	1 plastic washer 1 clamp	05 0587 09202 2 – 15 mm 05 0587 09216 16 – 30 mm
			Borehole Ø 13 mm (metal doors)

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	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
			Borehole Ø 13 mm	
	B Through-Bolted Fastening	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	
Borehole Ø 13/18 mm, please turn to page 347.				
	C Concealed Fastening with Threaded Insert	05 0580 00435	Length of dowel 34 mm	
		2 each expansion plugs brass dull nickel finish		
Borehole Ø 12.5 mm (wood doors)				
	D Concealed Fastening with Drop Clamp	05 0580 09202	2 – 15 mm	
		05 0580 09216	16 – 30 mm	
Borehole Ø 13 mm (metal doors)				

All details subject to modification

Door Pulls

Fixed Doorknobs

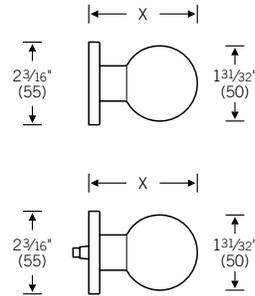
23 0802 



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

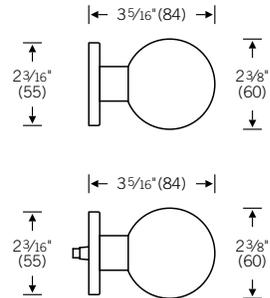


23 0803 



23 0803 00005
(concealed surface mounting)

23 0803 00006
(concealed through bolting)



c:c screw holes 1 1/2" (38 mm)

For technical information see page 360.

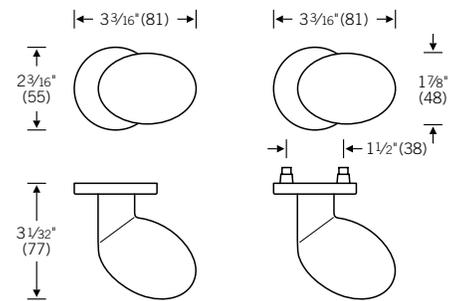
All details subject to modification

Fixed Doorknobs

23 0804 

23 0804 00005
(concealed surface mounting)

23 0804 00006
(concealed through bolting)



All details subject to modification

Doorknobs

c:c screw holes 1 1/2" (38 mm)

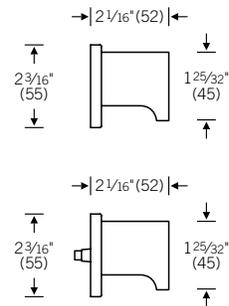
For technical information see page 360.

Fixed Doorknobs

23 0828 

23 0828 00005
(concealed surface mounting)

23 0828 00006
(concealed through bolting)

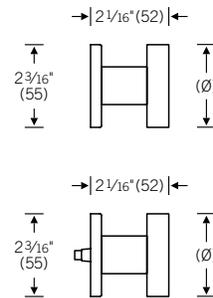


23 0829 

23 0829 00005
(concealed surface mounting)

23 0829 00006
(concealed through bolting)

Stainless Steel $\varnothing = 55$ mm
Bronze $\varnothing = 50$ mm
Aluminium $\varnothing = 50$ mm



c:c screw holes 1 1/2" (38 mm)

For technical information see page 360.

Fixed Doorknobs

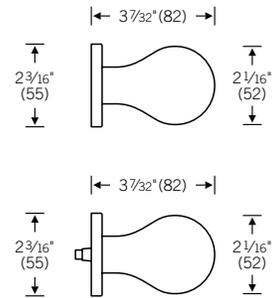
23 0844 

Design: Jasper Morrison



23 0844 00005
(concealed surface mounting)

23 0844 00006
(concealed through bolting)



23 0873 

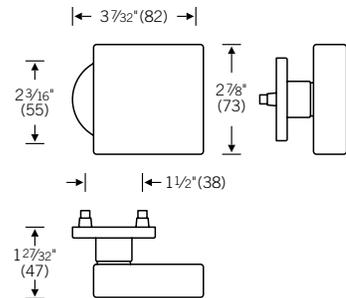
Design: Hadi Teherani



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 1 1/2" (38 mm)

For technical information see page 360.

All details subject to modification

Doorknobs

Fixed Doorknobs

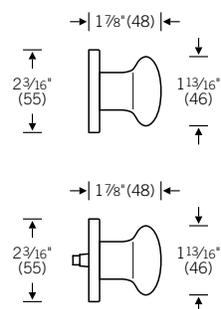
23 0880 

Design: Christoph Mäckler



23 0880 00035
(concealed surface mounting)

23 0880 00036
(concealed through bolting)



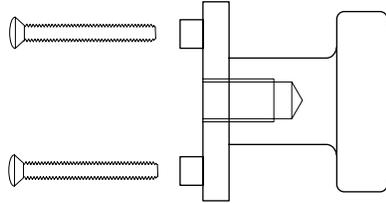
c:c screw holes $1\frac{1}{2}''$ (38 mm)

For technical information see page 360.

Technical Information

Fixed Doorknobs

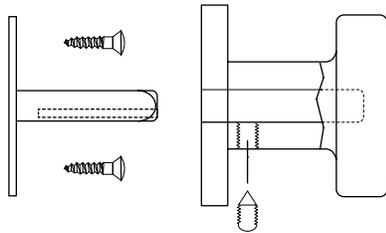
Fixed Knobs Item No. 23xx



Where concealed through bolting is required, we supply doorknobs prepared for $\frac{3}{16}$ " (5 mm) screws and reinforced with two lugs with standard $1\frac{1}{2}$ " (38 mm) center to center. The M5 screws are $1\frac{3}{4}$ " (45 mm) in length, making them suitable for doors $1\frac{3}{8}$ " – $1\frac{3}{4}$ " (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 $\frac{1}{2}$ " (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



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.



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

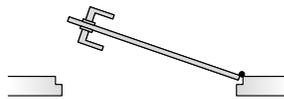
- 0000 (3 ½ × 3 ½" RH)
- 0001 (3 ½ × 3 ½" LH)
- 0002 (4 × 4" RH)
- 0003 (4 × 4" LH)
- 0004 (4 ½ × 4 ½" RH)
- 0005 (4 ½ × 4 ½" LH)
- 0006 (4 ½ × 4" RH)
- 0007 (4 ½ × 4" LH)

Three-Knuckle

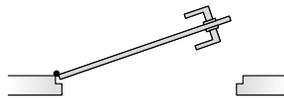
- 0050 (3 ½ × 3 ½")
- 0051 (4 × 4")
- 0052 (4 ½ × 4 ½")
- 0053 (4 ½ × 4")

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

Hinges

Two-Knuckle Hinges

Series 9101



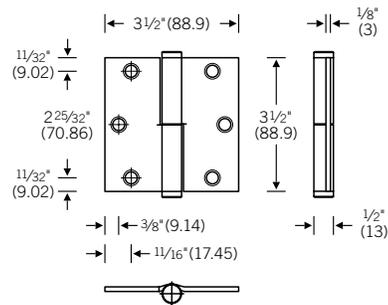
9101 0000 (RH)
9101 0001 (LH)



Two-Knuckle Hinge

3 1/2 × 3 1/2" (88.9 × 88.9 mm)
Minimum door thickness 1 3/8" (35 mm)

9101 0001 pictured below



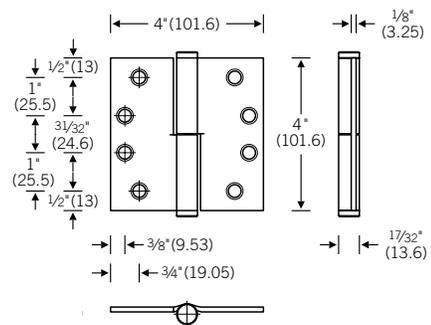
9101 0002 (RH)
9101 0003 (LH)



Two-Knuckle Hinge

4 × 4" (101.6 × 101.6 mm)
Minimum door thickness 1 3/4" (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

Two-Knuckle Hinges

Series 9101



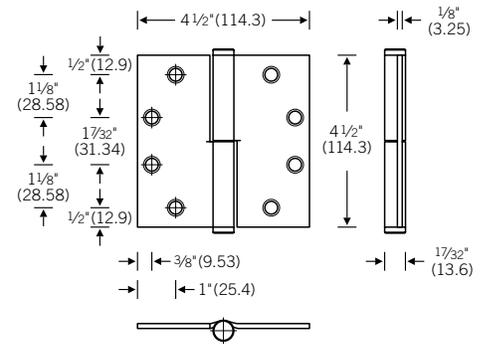
9101 0004 (RH)
9101 0005 (LH)



Two-Knuckle Hinge

4 1/2" x 4 1/2" (114.3 x 114.3 mm)
Minimum door thickness 1 3/4" (44 mm)

9101 0005 pictured below



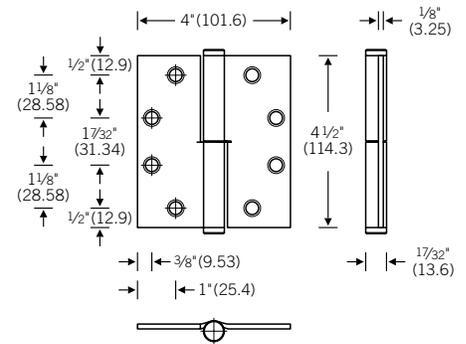
9101 0006 (RH)
9101 0007 (LH)



Two-Knuckle Hinge

4 1/2" x 4" (114.3 x 101.6 mm)
Minimum door thickness 1 3/4" (44 mm)

9101 0007 pictured below



All details subject to modification

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.

Hinges

Three-Knuckle Hinges

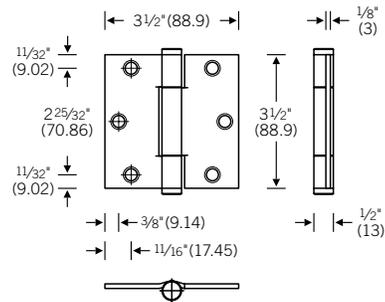
Series 9101



9101 0050

Three-Knuckle Hinge

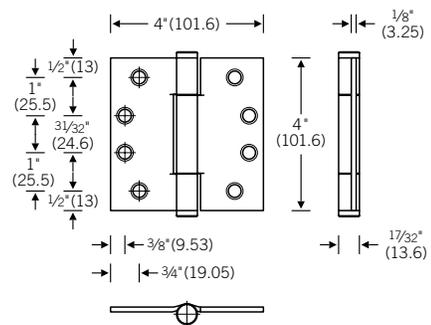
3 1/2 × 3 1/2" (88.9 × 88.9 mm)
Minimum door thickness 1 3/8" (35 mm)



9101 0051

Three-Knuckle Hinge

4 × 4" (101.6 × 101.6 mm)
Minimum door thickness 1 3/4" (44 mm)



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

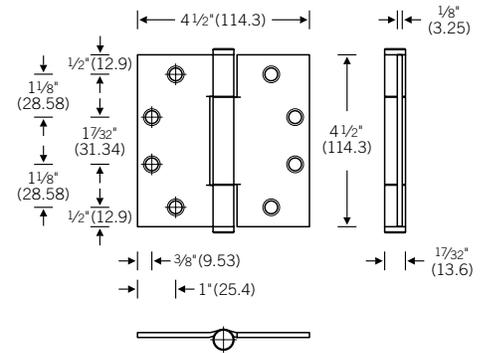
Series 9101



9101 0052

Three-Knuckle Hinge

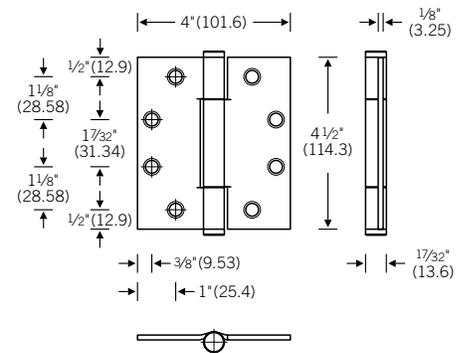
4 1/2" x 4 1/2" (114.3 x 114.3 mm)
Minimum door thickness 1 3/4" (44 mm)



9101 0053

Three-Knuckle Hinge

4 1/2" x 4" (114.3 x 101.6 mm)
Minimum door thickness 1 3/4" (44 mm)



All details subject to modification

Base material of all hinges is stainless steel. For all available finishes please refer to page 364.

Hinges

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	

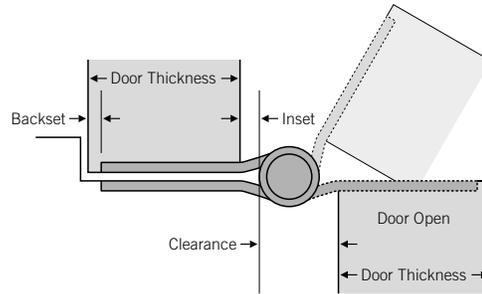
Hinge Size

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

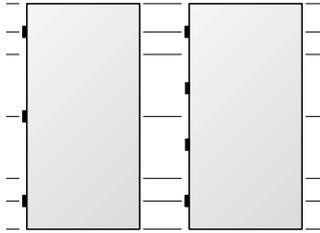
Series 9101

Information and Specification



Number of Hinges

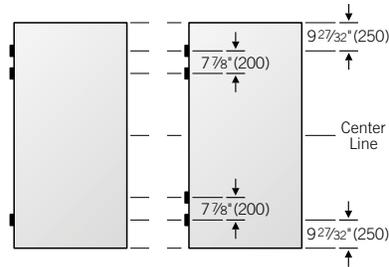
Typically, three hinges are fitted to each door. Hinge positions are determined by the weight of door, its situation and its construction/resistance to warping. The usual positioning is symmetrical, see examples.



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 1/4" 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" x 3'3" "Solid Core" door leaf at 1 3/4" thick will have an approximate weight of 110lb

Door Thickness	1 3/8" (35 mm)		1 3/4" (44 mm)		2" (51 mm)		2 1/8" (54 mm)	
	lbs/ft ²	kg/m ²						
Hollow Metal	4	19.5	5	24.4	6 1/2	31.7	7	33.6
Kalamein	—	—	5	24.4	—	—	—	—
Hollow Core	2	9.8	2 1/2	12.2	—	—	—	—
Solid Core	3 1/2	17.0	4 1/2	22.0	5 1/4	25.6	5 1/2	27.1
Mineral Core	3 1/2	17.0	4	19.5	—	—	—	—
Pine (White)	3	14.6	3 1/2	17.0	4	19.5	4 1/4	20.6
Oak	5	24.4	7	34.2	8	39.0	8 1/2	41.3
Ash	4	19.5	5	24.4	6	29.3	6 1/2	31.0
Birch	4 1/4	20.8	5 1/2	26.9	6 1/4	30.5	6 1/2	32.3
Mahagony	3 1/2	17.0	4 1/2	22.0	5 1/4	25.6	5 1/2	27.1

All details subject to modification

Hinges



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

 6204 (630)
 6205 (629)

 Bronze

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

 Aluminum

 0105 (628)
 0205
 0710 (710)
 0810 (711)
 Powder Coated

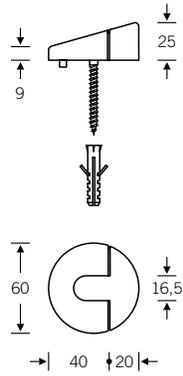
 Brass

 4205 (605)
 4305 (606)
 4404 (607)

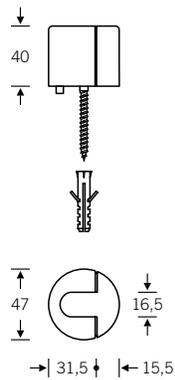
 Black Rubber

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

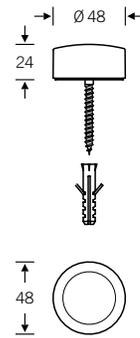
stops, stops with anti-twist capability, stops with baseplates, directional and non-directional stops and stops fitted straight into the floor or those where rawplugs are used.

All details subject to modification

Door Stops

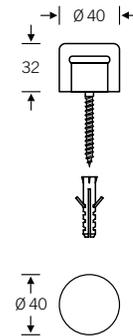
38 3878 

Design: Christoph Ingenhoven



38 3880 

38 3880 00001 (Black rubber)



All details subject to modification

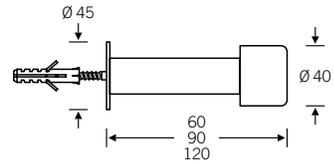
Before placing an order or carrying out any installation, please check the weight of the door leaf, the angle of impact, the height of the bottom edge of the door above the floor and the strength of the floor. Depending on requirements, it is possible to choose between simple

stops, stops with anti-twist capability, stops with baseplates, directional and non-directional stops and stops fitted straight into the floor or those where rawplugs are used.

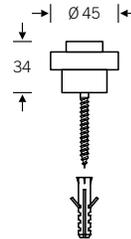
Door Stops

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

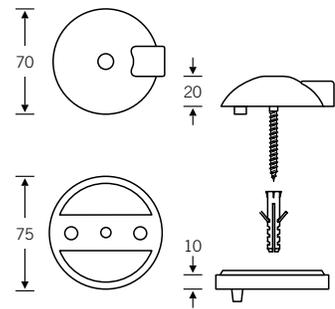
stops, stops with anti-twist capability, stops with baseplates, directional and non-directional stops and stops fitted straight into the floor or those where rawplugs are used.

All details subject to modification

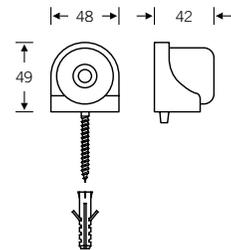
Door Stops

38 3884 

38 3884 00000 (Door stop)
38 3884 00010 (Black baseplate)



38 3888 



All details subject to modification

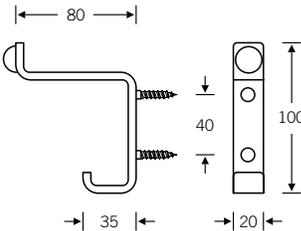
Before placing an order or carrying out any installation, please check the weight of the door leaf, the angle of impact, the height of the bottom edge of the door above the floor and the strength of the floor. Depending on requirements, it is possible to choose between simple

stops, stops with anti-twist capability, stops with baseplates, directional and non-directional stops and stops fitted straight into the floor or those where rawplugs are used.

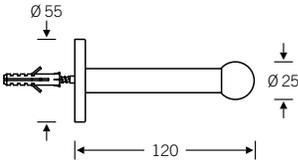
Coat Hooks / Wall-mounted Door Stops

36 3646

36 3646 00000 (Coat hook without buffer)
 36 3646 00001 (Coat hook and doorstop with buffer)



38 3895



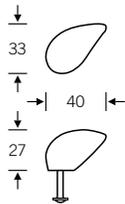
All details subject to modification

Cabinet Knobs

36 3632 *

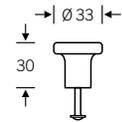
Design: Philippe Starck
 36 3632 004 (RH)
 36 3632 005 (LH)

Supplied with M4 x 30 mm screw
 * Aluminum available in natural color only



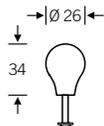
36 3689 

Supplied with M4 x 30 mm screw



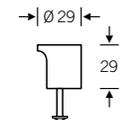
36 3654 

Design: Jasper Morrison
 Supplied with M4 x 30 mm screw



36 3691 

Design: Franco Clivio
 Supplied with M4 x 30 mm screw



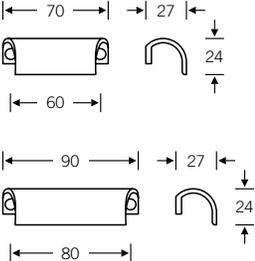
All details subject to modification

Accessories

Cabinet Pulls

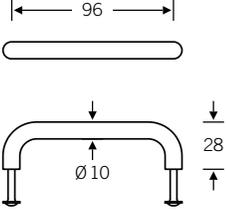
36 3656 | 36 3657 ■

36 3656 (70 mm)
36 3657 (90 mm)



36 3679 ■

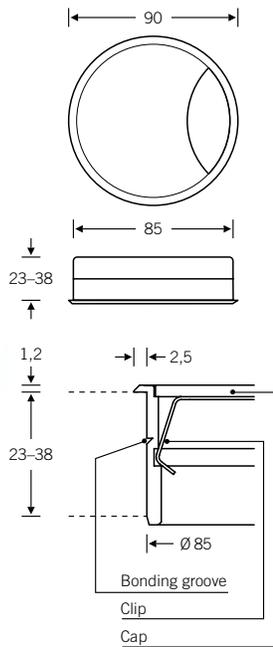
Supplied with M4 x 26 mm screws



All details subject to modification

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

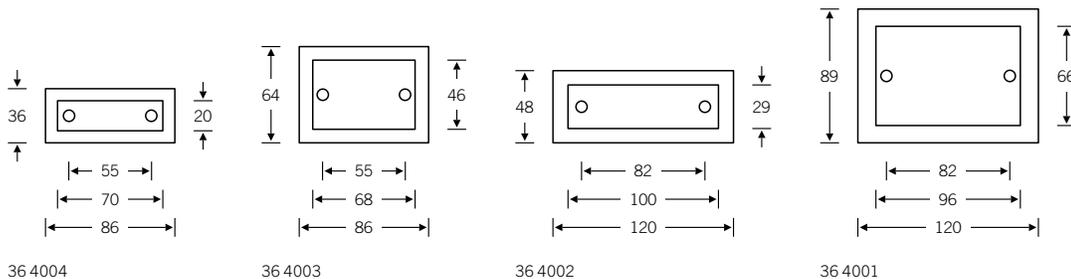
The FSB cable box ensures tidy cable management at work desks. Connections for telephones and fax machines, task lights, desktop computers and all that goes with them are ideally accommodated in this elegant cable box. Its heavy-duty design is such that the cap remains firmly clipped in place no matter 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)



All details subject to modification

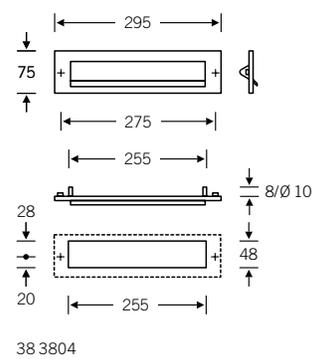
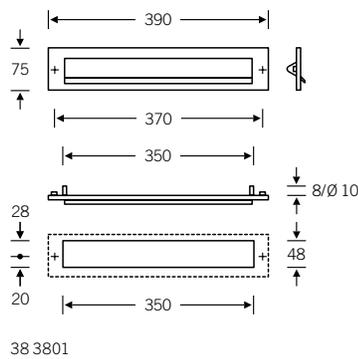
Accessories

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



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 

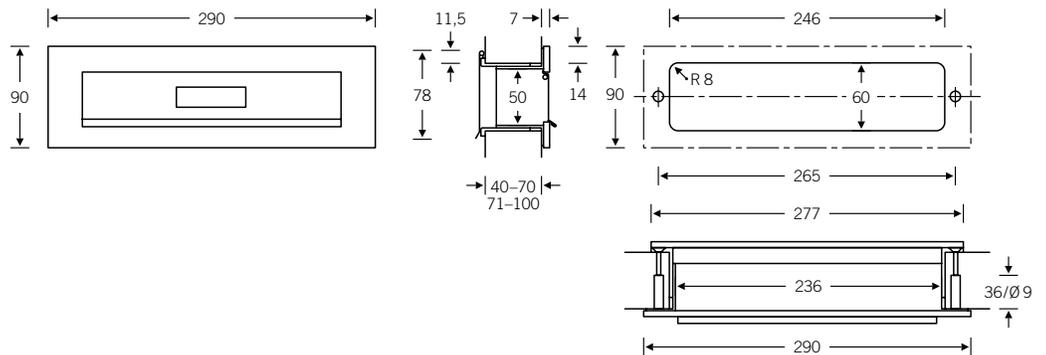
38 3808 00061 (40 – 70 mm)
 38 3808 00071 (71 – 100 mm)
 Letter plate set without nameplate,
 with spacer and inner flap

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

Accessories

Letter Plates

38 3826 

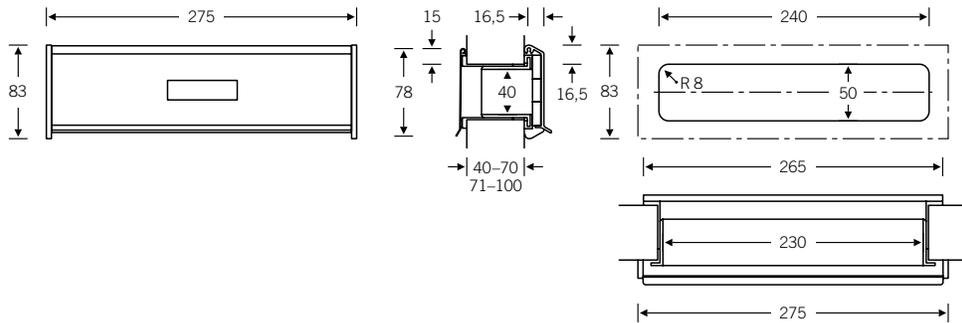
38 3826 02061 (40 – 70 mm)
38 3826 02071 (71 – 100 mm)
Letter plate set without nameplate,
with spacer and inner flap

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

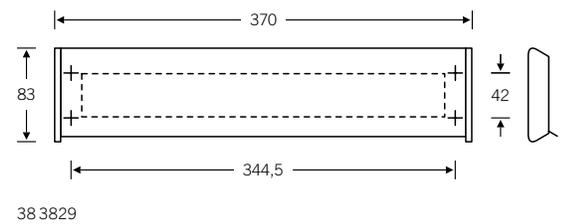
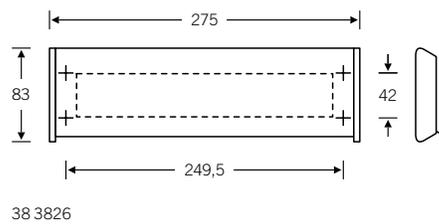
38 3829 02001 without nameplate
38 3829 02002 with nameplate

Opening dimension or door cutout
230 × 40 mm

Opening dimension or door cutout
325 × 40 mm



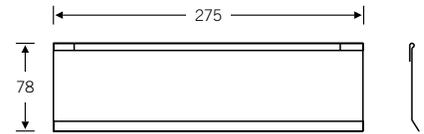
All details subject to modification



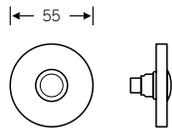
Mail Flap, Door Bell and Intercom

38 3845 ■

Suitable for door cutout 255 × 40 mm



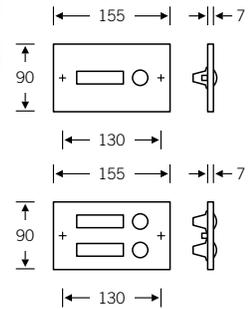
38 3863 ■ ■



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

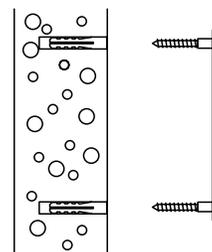
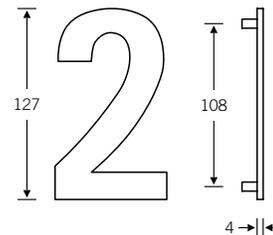
38 4005



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).

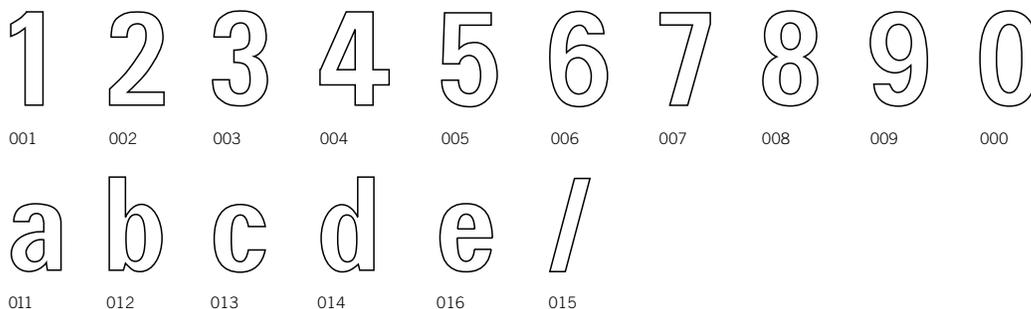
Every numeral or letter comes with a fixing template that also determines the distance between the characters. Custom spacing is easy to achieve.



Item number:
38 4005 00... = available numbers or letters (shown above)

Only lower case letters "a" to "e" are available.

Example: 38 4005 00002 = Number 2



All details subject to modification

Accessories



METRIC® + ErgoSystem® Bathroom Accessories

Bathroom Accessories

The bathroom is increasingly becoming a place for tranquility 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).

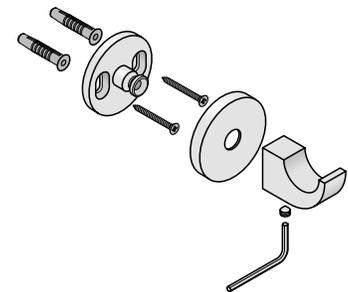
Surface quality In particular, finishes on hand-holds, handrails and shelves and trays brought about by electrostatic powder coating (EPC) are far more resilient to cleansers, scratching or wear than conventional powders and procedures of a purely decorative persuasion. The powders used at FSB have their 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.

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

82 8270 00011 ■
Page 393



82 8460 00001 ■
Page 393



82 8270 00014 ■
Page 394



82 8270 00021 ■
Page 394



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



Materials and Finishes	■ Stainless Steel	■ Aluminum
	■ 6204 (630)	■ 8811
	■ 6205 (629)	

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 8270 00043 ■
Page 405



82 8270 00050 ■
Page 408



82 8241 ■
Page 407



82 8243 ■
Page 407



All details subject to modification

Bathroom

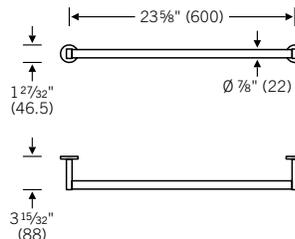
METRIC® + ErgoSystem®
Bathroom Accessories

82 8270 xxx11 ■

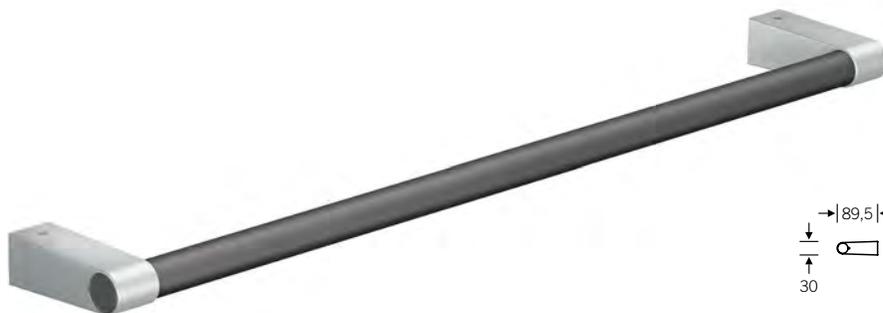


Single towel bar

- 82 8270 04511 (450 mm)
- 82 8270 00011 (600 mm)
- 82 8270 07511 (750 mm)
- 82 8270 09011 (900 mm)

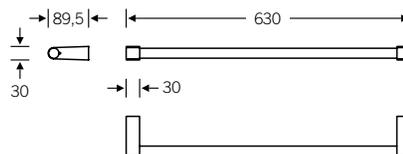


82 8460 00001 ■



Single fixed bath towel rail

Custom lengths of up to 1,050 mm
can be supplied to order



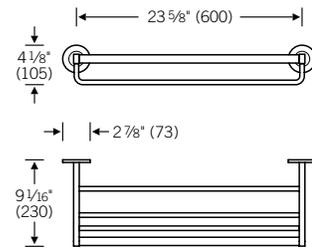
All details subject to modification

METRIC® + ErgoSystem®

Bathroom Accessories

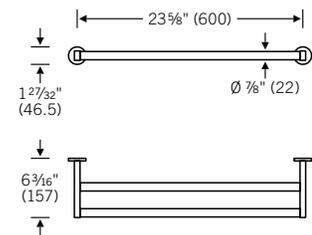
82 8270 00014 ■

Combination towel rack and towel bar



82 8270 00021 ■

Double towel bar

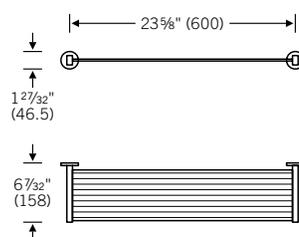


All details subject to modification

METRIC® + ErgoSystem® Bathroom Accessories

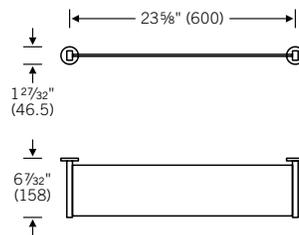
82 8270 00015 ■

Frosted glass shelf



82 8270 00016 ■

Clear glass shelf



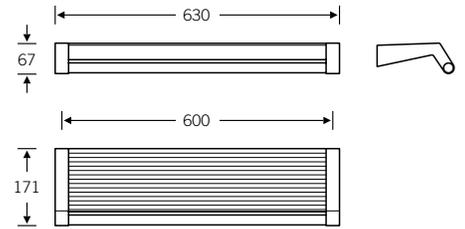
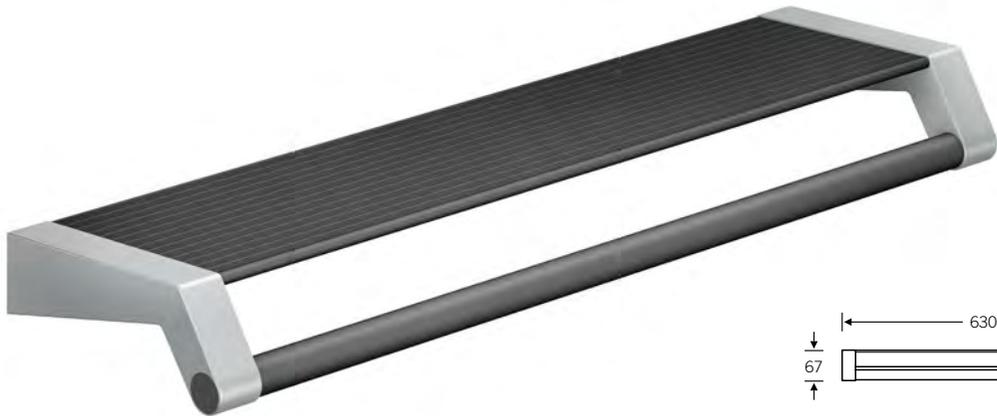
All details subject to modification

METRIC® + ErgoSystem® Bathroom Accessories

82 8460 00011 ■

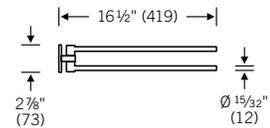
Utensils tray with grab/towel bar

Max grab rail loading 100 kg



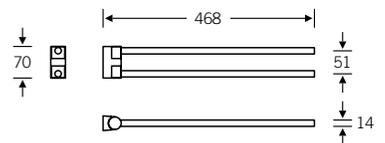
82 8270 00010 ■

Swivel action double towel bar



82 8460 00002 ■

Double swivel-action hand towel bar



All details subject to modification

Bathroom

METRIC® + ErgoSystem®

Bathroom Accessories

82 8201 xxx00 ■

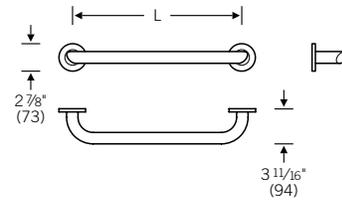
Grab bar

82 8201 03000 (L = 300 mm)

82 8201 04500 (L = 450 mm)

82 8201 06000 (L = 600 mm)

82 8201 09000 (L = 900 mm)



METRIC® + ErgoSystem®

Bathroom Accessories

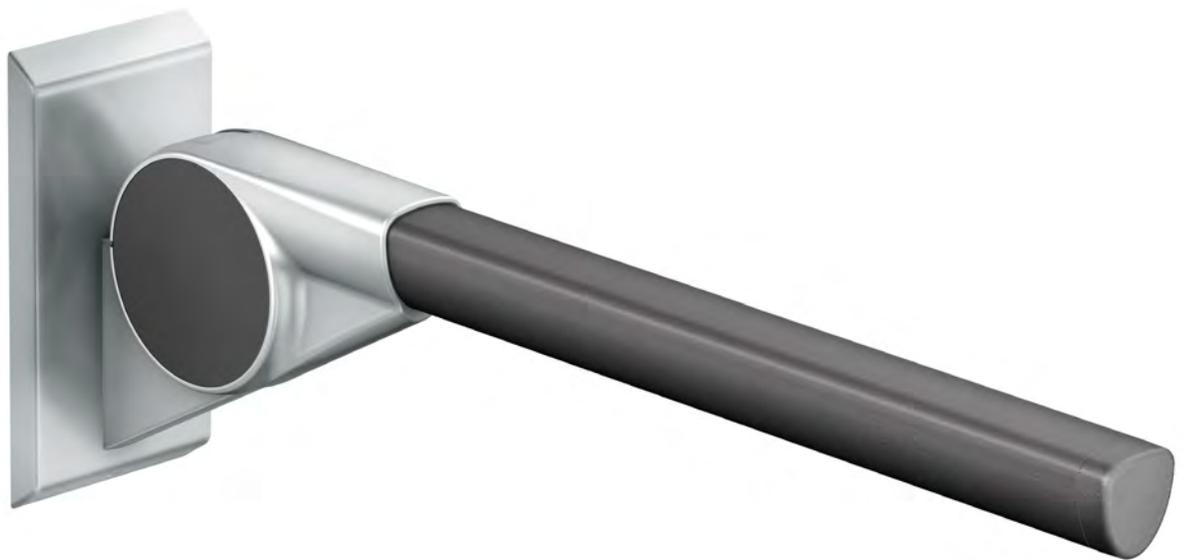
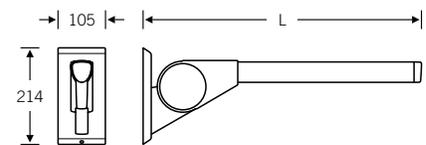
82 8420 000xx ■

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

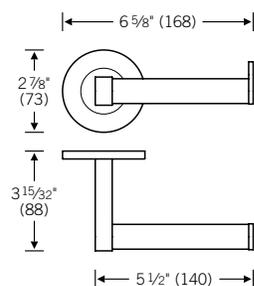


All details subject to modification

METRIC® + ErgoSystem®
Bathroom Accessories

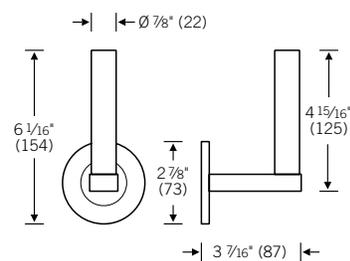
82 8270 01030 ■

Toilet roll holder



82 8270 01031 ■

Spare toilet roll holder for one roll



All details subject to modification

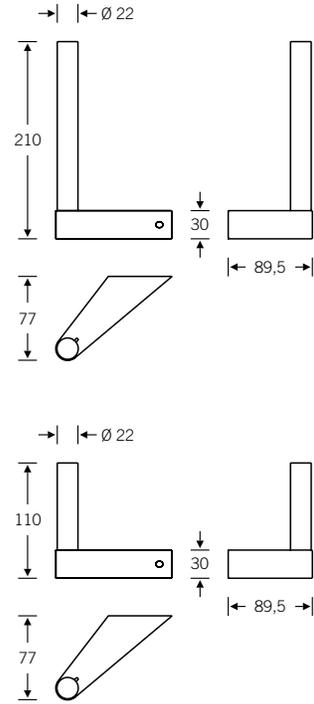
METRIC® + ErgoSystem® Bathroom Accessories

82 8460 000xx ■

82 8460 00007 (for two toilet-rolls)
82 8460 00017 (for one toilet-roll)



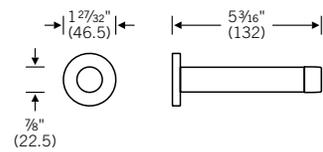
Spare toilet-roll holder



82 8270 00003 ■

Door Stop

Custom length available

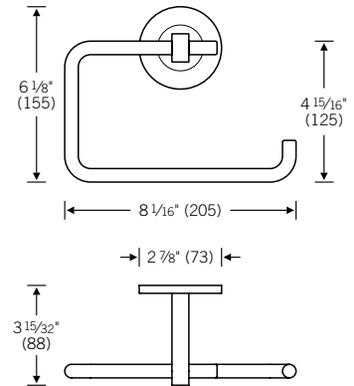


All details subject to modification

82 8270 01013 ■



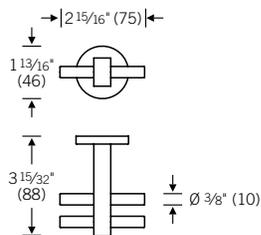
Towel ring



82 8270 00017 ■



Toothbrush holder

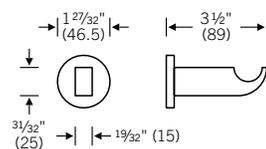
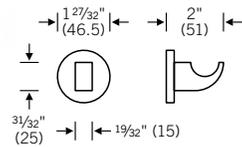


82 8270 00001 ■

82 8270 00002 ■



Robe or towel hooks



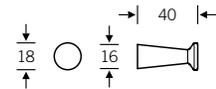
All details subject to modification

METRIC® + ErgoSystem® Bathroom Accessories

82 8460 00003 ■

82 8460 00003

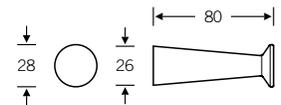
Wall hook



82 8460 00004 ■

82 8460 00004

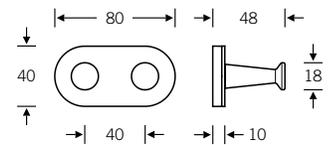
Coat hook



82 8460 00018 ■

82 8460 00018

Double wall hook

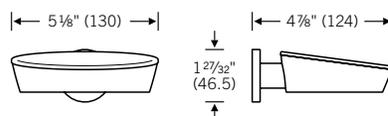


All details subject to modification

Bathroom

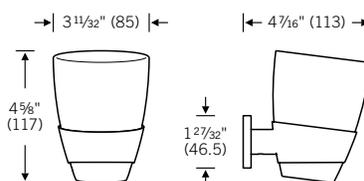
82 8270 00040 ■

Soap holder with plastic soap dish



82 8270 00041 ■

Mug holder with plastic mug

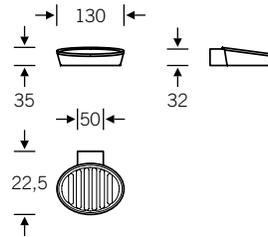


All details subject to modification

METRIC® + ErgoSystem® Bathroom Accessories

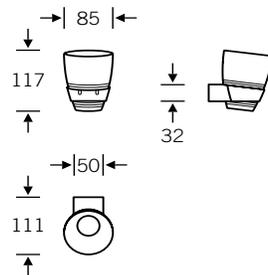
82 8460 00012 ■

Soap holder with plastic soap dish



82 8460 00014 ■

Mug holder with plastic mug



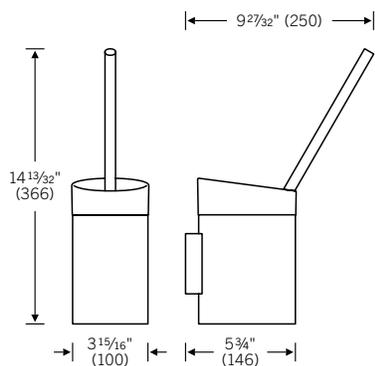
All details subject to modification

METRIC® + ErgoSystem®

Bathroom Accessories

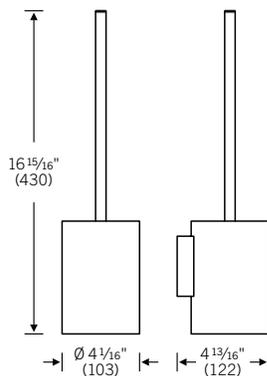
82 8270 00042 ■

Toilet brush set oval, with removable plastic insert*



82 8270 00043 ■

Toilet brush set round, with removable plastic insert*



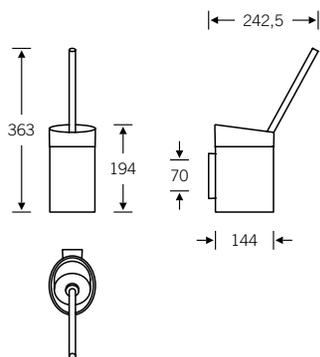
* The removable plastic insert for the toilet brush sets is washable up to 266 °F. The brush heads can be replaced and ordered separately.

All details subject to modification

METRIC® + ErgoSystem® Bathroom Accessories

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

Bathroom

METRIC® + ErgoSystem®

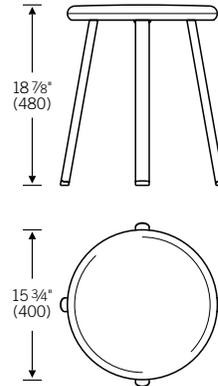
Bathroom Accessories

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.

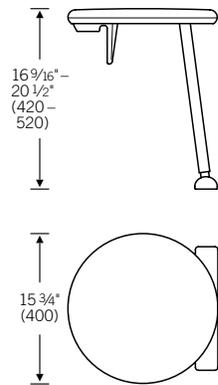


82 8241 ■ Seat PUR



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

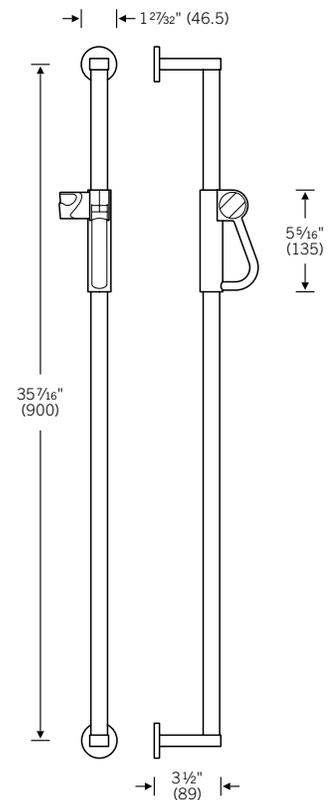
METRIC® + ErgoSystem® Bathroom Accessories

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.



All details subject to modification



reddot design award
winner 2008

Böden • Stoffe • Leuchten • Pflanzen
Küchen • Tisch-Einrichtungen
Gebäudearchitektur • Sanitär
Sicherheitsysteme
Mobiliar

Innovationspreis

architecture + health

Bathroom

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.

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.



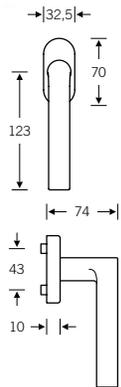
Window Handles

Window Handles

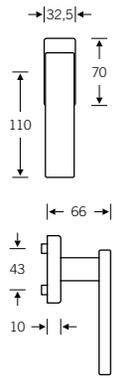
Materials and Finishes	 Stainless Steel	 Bronze	 Aluminum
	 6204 (630)  6205 (629)	 7305 (611)  7615 (615)  7625 (613)	 0105 (628)  0205  0410  0510  0710 (710)  0810 (711)  Powder Coated

Window Handles

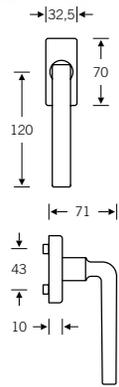
34 1001 
Lever Design 1001



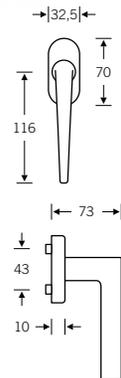
34 1003 
Lever Design 1003



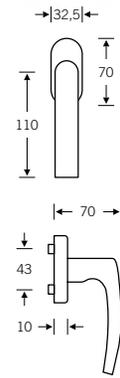
34 1004 
Lever Design 1004



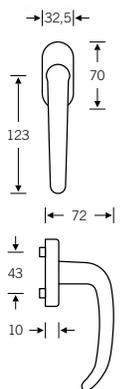
34 1005 
Lever Design 1005



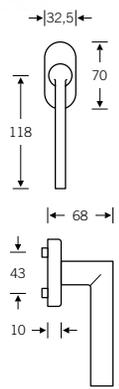
34 1015 
Lever Design 1015



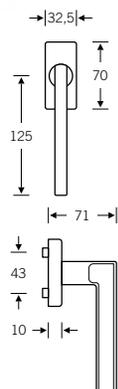
34 1023 
Lever Design 1023



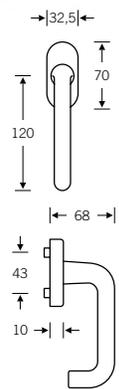
34 1025 
Lever Design 1025



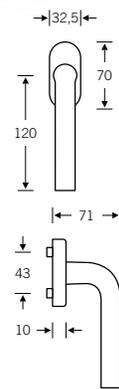
34 1035 
Lever Design 1031
and 1035



34 1070 
Lever Design 1070

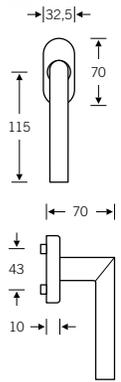


34 1075 
Lever Design 1075

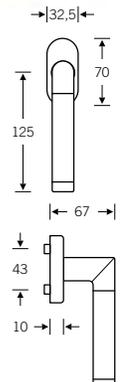


Window Handles

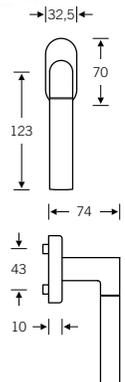
34 1076 
Lever Design 1016
and 1076



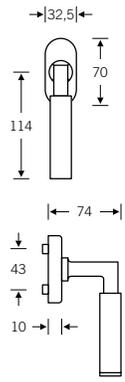
34 1077 
Lever Design 1077



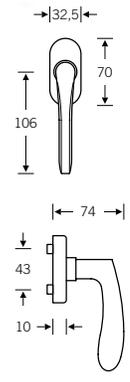
34 1078 
Lever Design 1078



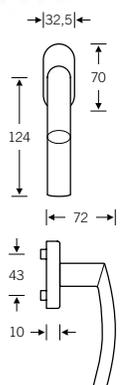
34 1102 *
Lever Design 1102



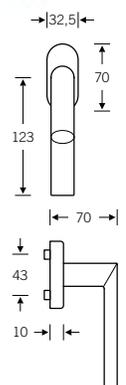
34 1106 
Lever Design 1106



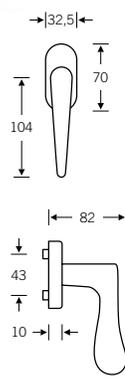
34 1107 
Lever Design 1107



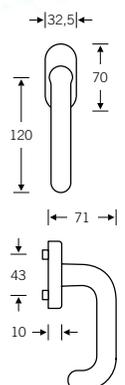
34 1108 
Lever Design 1108



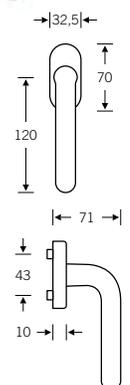
34 1144 
Lever Design 1144



34 1146 
Lever Design 1146



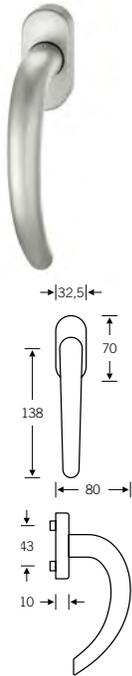
34 1147 
Lever Design 1147



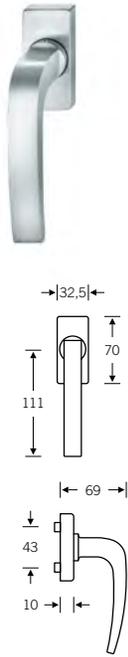
* 34 1102 window handle finish restrictions: Aluminum only available in 0105, Bronze only available in 7615 & 7625

Window Handles

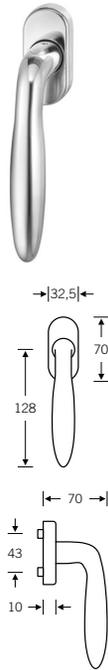
34 1160 
Lever Design 1160



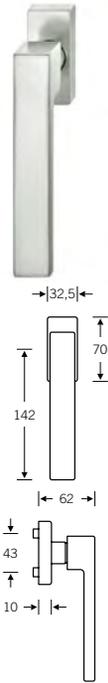
34 1163 
Lever Design 1163



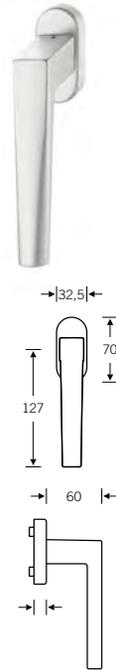
34 1176 
Lever Design 1176



34 1183 
Lever Design 1183



34 1241 
Lever Design 1241



Window Handles

□ Plastic white
 ■ Plastic black

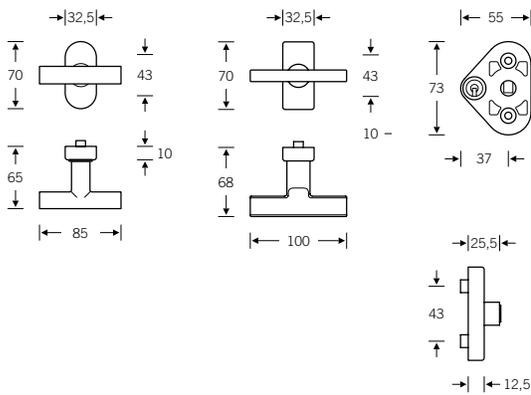
34 3403 
 Lever Design 1016
 and 1076



34 3784 
 Lever Design 1031
 and 1035



34 3407 
 Window Handle Lock
 and 1035



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.



97-98

97 | 97-98

36-45 | 46-55

46-55

36-45 | 46-55

36-45 | 46-55

36-45 | 46-55

36-45 | 46-55

55

36-45 | 46-55

55

36-45 | 46-55

36-45 | 46-55

36-45 | 46-55

45 | 46-55

FSB Parts

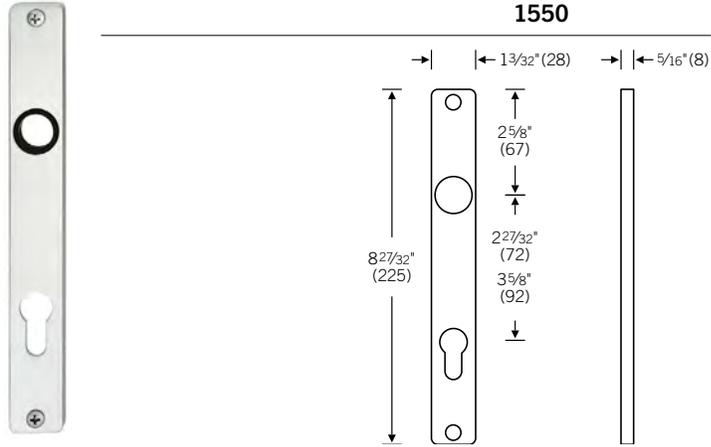
- 421 Mortise Lock Bodies
- 431 Tubular Latches and Deadbolts
- 435 Spindles
- 438 Fasteners and Adaptors

European Mortise Lock Trim

EML Trim Sets

Dimensions and Details

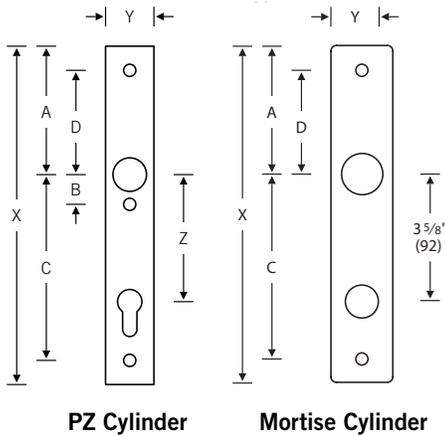
- 14 1550 01010 PZ 72 mm
- 14 1550 01012 PZ 92 mm



Note: European Escutcheons cannot be used with ANSI mortise locks.

Special Length Laser Cut Escutcheon

14 1458 00299



	PZ Cylinder	Mortise Cylinder
Escutcheon Thickness	<input type="checkbox"/> 3 mm <input type="checkbox"/> 5 mm	<input type="checkbox"/> 3 mm <input type="checkbox"/> 5 mm
Door Thickness		
Length X		
Width Y		
Dimension A		
Dimension B		
Dimension C		
Dimension D		
Spacing Z		
Holes		
Screw Fasteners (visibility)	<input type="checkbox"/> one side <input type="checkbox"/> both sides	<input type="checkbox"/> one side <input type="checkbox"/> both sides
Handle Bearing	<input type="checkbox"/> loose <input type="checkbox"/> turnably fixed*	<input type="checkbox"/> loose <input type="checkbox"/> 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



Parts



Series SML and SMT

Standard Mortise Lock Body

Recommended for minimum 1 3/4" (45 mm) door thickness with standard 1 1/4" (32 mm) armor front. 1" (25.4 mm) armor front available for doors with 1 3/8" (35 mm) door thickness.

Knob strength available.

C-UL-US Listing

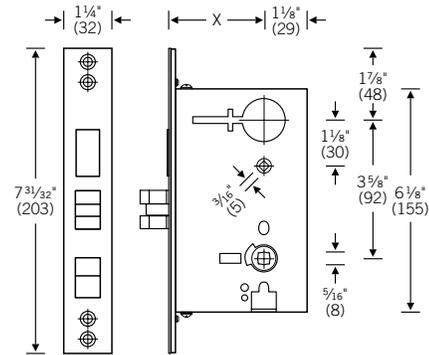
File No: R16617

Backsets

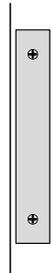
- 2 1/2" (64 mm)
- 2 3/4" (70 mm)
- 3 3/4" (95 mm)
- 5" (127 mm)
- 6" (152 mm)

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 thumbturn 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.

Standard Mortise Lock Series SML and SMT

Lock Body and Functions

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

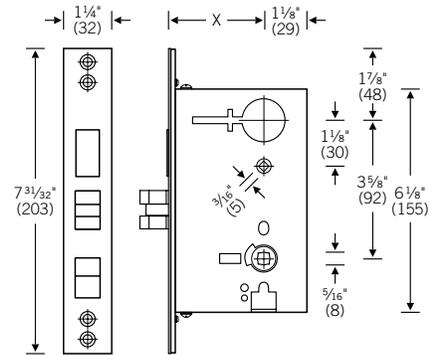
Electrified Mortise Lock Series SML and SMT

Lock Body and Functions



Series SML/SMT EL or SML/SMT EU

Recommended for minimum 1 3/4" (45 mm) door thickness with standard 1 1/4" (32 mm) armor front. 1" (25.4 mm) armor front available for doors with 1 3/8" (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

Narrow Mortise Lock Series NML and NMT

Lock Body and Functions



Series NML

Narrow Mortise Lock

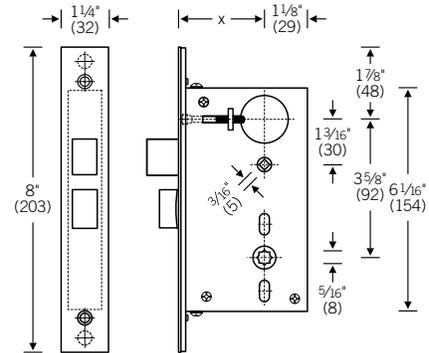
Recommended for minimum 1 3/4" (45 mm) door thickness with standard 1 1/4" (32 mm) armor front.
 1" (25.4 mm) armor front available for doors with 1 3/8" (35 mm) door thickness.

Lock Body

All NML and NMT use the same lock bodies.

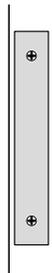
Backsets

- 1 1/2" (38 mm)
- 1 3/4" (45 mm)
- 2" (51 mm)
- 2 1/4" (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

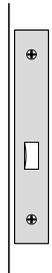


Dormitory, Function B – ANSI Code F13
Deadbolt by thumb turn inside and key or emergency release outside.

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.

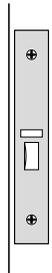
Patio, Function T
Latch bolt by handle either side. Deadbolt by thumbturn inside. Outside handle is rigid when deadbolt is thrown by thumbturn. Use of inside handle retracts latch and deadbolt simultaneously.

NML 7125



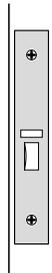
Passage, Function C – ANSI Code F01
Latch bolt by handle either side.

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.

Narrow Mortise Lock Series NML and NMT

Lock Body and Functions

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

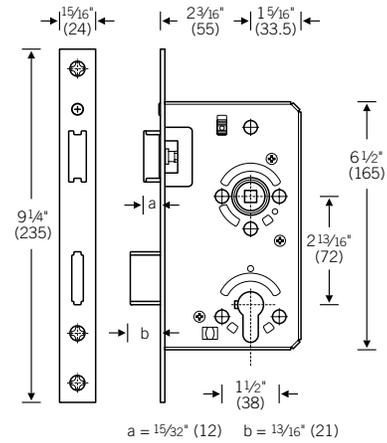


Series EML

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 x 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 x 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.

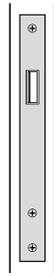
Lever to thumbturn center-to-center: 3 1/16" (78 mm).

All details subject to modification

European Mortise Lock Series EML

Lock Body and Functions, Strikes

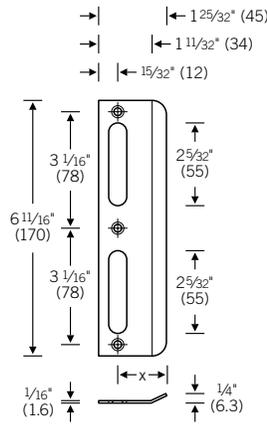
EML 0003



Passage, Function C

Latch bolt by handle either side.

Parts



EML 1001

EML Series Mortise Strike without dustbox

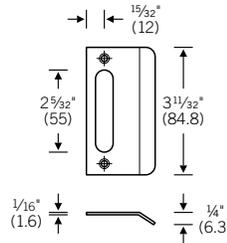
Entry/Privacy Functions

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



Parts



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
($\frac{1}{8}$ " over 2")

UL and C-UL Listing

File No. R 16617

Backsets

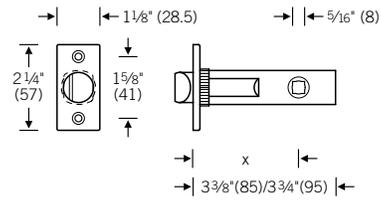
$2\frac{3}{8}$ " (60 mm)

$2\frac{3}{4}$ " (70 mm)

Strike

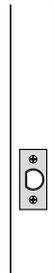
Universal curved lip T-Strike with dustbox.

Faceplate width $1\frac{1}{8}$ " (25.4 mm) for
minimum $1\frac{3}{4}$ " (44.5 mm) door thickness.



HLL 7010

Passage Latch



Latch bolt by handle either side.

All details subject to modification

Heavy Duty Lever Latch Series HLL and HLT

Latch Body and Functions



Series HLL and HLT

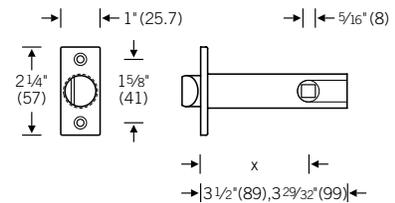
Heavy Duty Lever Latch
Passage and Privacy

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

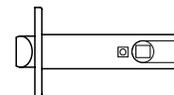
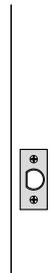
Passage Latch

Latch bolt by handle either side.

HLL 7240

Privacy Latch

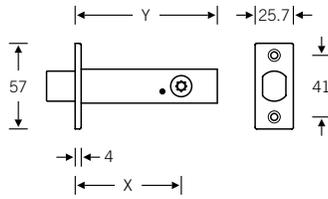
Latch bolt by handle either side.
Outside handle locked by pushbutton inside. Outside handle unlocked by retracting inside handle, emergency release tool or closing the door.
Supplied with 8 mm hub as shown.



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

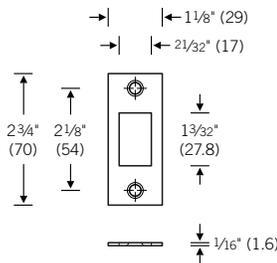
Privacy Deadbolt



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)

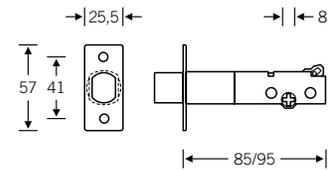
2 3/4" (70 mm)

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

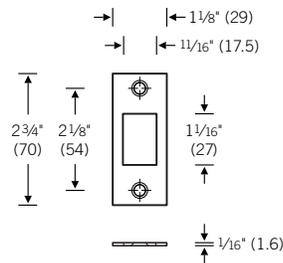


Deadbolt by key or thumbturn either side.

All details subject to modification

Deadbolt Series KDD/KDT

Strikes



KDD 1001

Strike with dustbox for KDD 7070 (Keyed Deadbolt)

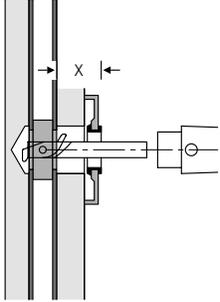
Spindles

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.



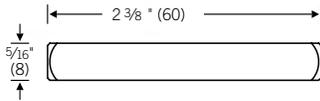
Dimension X

05 0115 00810	$\frac{5}{16}'' \times 2\frac{3}{8}''$ (8 × 60 mm),	$2\frac{5}{32}'' - 1\frac{5}{16}''$ (20 – 24 mm)
05 0115 00812	$\frac{5}{16}'' \times 2\frac{9}{16}''$ (8 × 65 mm),	$3\frac{1}{32}'' - 1\frac{5}{32}''$ (25 – 29 mm)
05 0115 00814	$\frac{5}{16}'' \times 2\frac{3}{4}''$ (8 × 70 mm),	$1\frac{3}{16}'' - 1\frac{11}{32}''$ (30 – 34 mm)
05 0115 00816	$\frac{5}{16}'' \times 2\frac{15}{16}''$ (8 × 75 mm),	$1\frac{3}{8}'' - 1\frac{17}{32}''$ (35 – 39 mm)
05 0115 00818	$\frac{5}{16}'' \times 3\frac{5}{32}''$ (8 × 80 mm),	$1\frac{19}{32}'' - 1\frac{5}{8}''$ (40 – 44 mm)

05 0199

FSB ASL® half spindle

05 0199 00005 5700 $\frac{5}{16}'' \times 2\frac{3}{8}''$ (8 × 60 mm)



0199 00005

05 0599

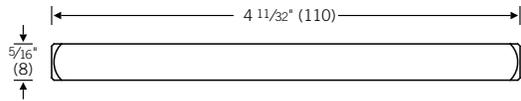
FSB ASL® set screw

05 0599 00073



Spindles

05 0553 - Kit



0553 10001

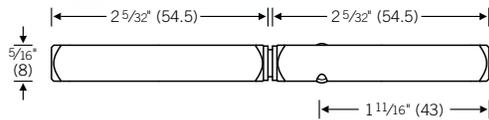
FSB ASL® straight spindle

Straight spindles available for DT (Door Thickness) up to 3 3/4" (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 3/4" DT
05 0553 10003	5/16" × 5 29/32" (8 × 150 mm)	3"-3 3/4" 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 3 3/4" (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 3/4" DT
05 0553 20003	5/16" × 5 29/32" (8 × 150 mm)	3"-3 3/4" DT

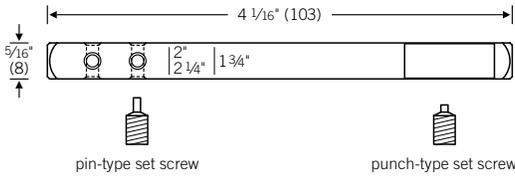
Kits include set screws, through bolts, through bolt caps and spindle.

Spindles

05 0156

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" x 3 17/32" (8 x 90 mm)
- 05 0156 00827 5/16" x 4 1/16" (8 x 103 mm)
- 05 0156 00830 5/16" x 4 11/32" (8 x 110 mm)
- 05 0156 00833 5/16" x 4 19/32" (8 x 117 mm)

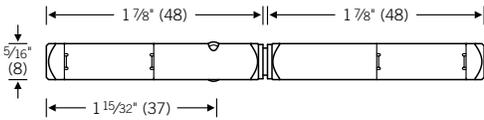
When ordering a standard FSB lockset or latchset, provide the appropriate door thickness to get the correct spindle length. To select the appropriate spindle separately please consult the spindle charts on the next page.

0156 00827

05 0157

FSB original swivel spindle

Swivel spindles available for DT (Door Thickness) up to 3 3/4" (82 mm) on request.



- 05 0157 02824 (8 x 96 mm) 1 3/8"–1 3/4" DT
- 05 0157 02830 (8 x 110 mm) 2"–2 1/2" DT
- 05 0157 02838 (8 x 130 mm) 2 3/4"–3 1/4" DT

05 0157 02824

05 0103

FSB original half spindle

- 05 0103 00808 5/16" x 2 3/16" (8 x 55 mm)
- 05 0103 00812 5/16" x 2 9/16" (8 x 65 mm)
- 05 0103 00816 5/16" x 2 15/16" (8 x 75 mm)



05 0402

Set screw with piercing punch

- 05 0402 00601 M6 1/4" x 5/16" (8,0 mm)
- 05 0402 00602 M6 1/4" x 11/32" (9,0 mm)
- 05 0402 00603 M6 1/4" x 13/32" (10.5 mm)
- 05 0402 00604 M6 1/4" x 7/16" (11.5 mm)



Fasteners

05 0302

Galvanized Steel Lens Head Tapping Screw



05 0302 04240	$\frac{5}{32}$ " \times $1\frac{19}{32}$ "	(4.2 \times 40 mm)
05 0302 04245	$\frac{5}{32}$ " \times $1\frac{25}{32}$ "	(4.2 \times 45 mm)
05 0302 04250	$\frac{5}{32}$ " \times $1\frac{31}{32}$ "	(4.2 \times 50 mm)
05 0302 04255	$\frac{5}{32}$ " \times $2\frac{3}{16}$ "	(4.2 \times 55 mm)
05 0302 04260	$\frac{5}{32}$ " \times $2\frac{3}{8}$ "	(4.2 \times 60 mm)
05 0302 04265	$\frac{5}{32}$ " \times $2\frac{9}{16}$ "	(4.2 \times 65 mm)
05 0302 04270	$\frac{5}{32}$ " \times $2\frac{3}{4}$ "	(4.2 \times 70 mm)
05 0302 04280	$\frac{5}{32}$ " \times $3\frac{5}{32}$ "	(4.2 \times 80 mm)

05 0303

Cross recessed raised countersunk oval head bolt



05 0303 00515	M5 $\frac{3}{16}$ " \times $1\frac{9}{32}$ "	(15 mm)
05 0303 00535	M5 $\frac{3}{16}$ " \times $1\frac{3}{8}$ "	(35 mm)

05 0308

Cross countersunk head screws



For door thickness

05 0308 00540	M5 $\frac{3}{16}$ " \times $1\frac{19}{32}$ "	$1\frac{3}{8}$ " - 2"
05 0308 00555	M5 $\frac{3}{16}$ " \times $2\frac{3}{16}$ "	$1\frac{27}{32}$ " - $2\frac{7}{32}$ "
05 0308 00560	M5 $\frac{3}{16}$ " \times $2\frac{3}{8}$ "	$2\frac{1}{8}$ " - $2\frac{3}{4}$ "
05 0308 00565	M5 $\frac{3}{16}$ " \times $2\frac{9}{16}$ "	$2\frac{1}{4}$ " - $2\frac{19}{32}$ "
05 0308 00575	M5 $\frac{3}{16}$ " \times $2\frac{15}{16}$ "	$2\frac{5}{8}$ " - 3"
05 0308 00585	M5 $\frac{3}{16}$ " \times $3\frac{11}{32}$ "	$3\frac{1}{32}$ " - $3\frac{3}{4}$ "
05 0308 00595	M5 $\frac{3}{16}$ " \times $3\frac{3}{4}$ "	$3\frac{7}{16}$ " - $3\frac{25}{32}$ "
05 0308 00501	M5 $\frac{3}{16}$ " \times $4\frac{1}{8}$ "	$3\frac{13}{16}$ " - $4\frac{5}{32}$ "

05 0309

Sex bolts with M4 $\frac{5}{32}$ " threaded sleeve nut 0309



	Bolt length	Adjustable between	For door thickness
05 0309 00435	$1\frac{3}{8}$ " (35 mm)	$1\frac{15}{32}$ " - $1\frac{25}{32}$ "	$3\frac{1}{32}$ " - $1\frac{5}{16}$ "
05 0309 00440	$1\frac{19}{32}$ " (40 mm)	$1\frac{21}{32}$ " - $1\frac{31}{32}$ "	$1\frac{3}{16}$ " - $1\frac{1}{2}$ "
05 0309 00445	$1\frac{25}{32}$ " (45 mm)	$1\frac{27}{32}$ " - $2\frac{3}{16}$ "	$1\frac{3}{8}$ " - $1\frac{11}{16}$ "
05 0309 00450	$1\frac{31}{32}$ " (50 mm)	$2\frac{1}{16}$ " - $2\frac{3}{8}$ "	$1\frac{19}{32}$ " - $1\frac{7}{8}$ "
05 0309 00455	$2\frac{3}{16}$ " (55 mm)	$2\frac{1}{4}$ " - $2\frac{9}{16}$ "	$1\frac{25}{32}$ " - $2\frac{3}{32}$ "
05 0309 00460	$2\frac{3}{8}$ " (60 mm)	$2\frac{7}{16}$ " - $2\frac{3}{4}$ "	$1\frac{31}{32}$ " - $2\frac{9}{32}$ "

05 0315

Cross recessed metal screw



03 0315 02916	$\frac{3}{8}$ " \times $\frac{5}{8}$ "	(2.9 \times 16 mm)
03 0315 03916	$\frac{5}{32}$ " \times $\frac{5}{8}$ "	(3.9 \times 16 mm)
03 0315 04219	$\frac{5}{32}$ " \times $\frac{3}{4}$ "	(4.2 \times 19 mm)

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

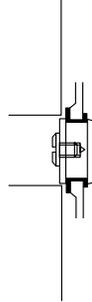


Dome Nut - for 61 6254, 61 6268 Pulls

Aluminum
05 0319 00800 M8

Stainless Steel
05 0319 00800 M8

03 0441 ■



Blind rose

to blank out the lever handle hole on escutcheon plates

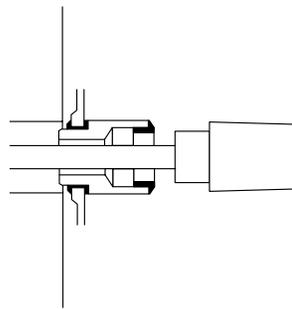
03 0450

Threaded Inserts



05 0450 09147 5700 $2\frac{3}{32}$ " (18 mm)
 05 0450 09167 5700 $1\frac{1}{32}$ " (26 mm)

03 0440 ■ ■



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

Aluminum

03 0440 00020 $2\frac{5}{32}$ " (20 mm)
 03 0440 00025 $3\frac{1}{32}$ " (25 mm)
 03 0440 00030 $1\frac{3}{16}$ " (30 mm)

Stainless Steel

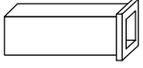
03 0440 00020 $2\frac{5}{32}$ " (20 mm)

Adaptors

05 0425

Adaptor sleeve

for lever handles spindles/lock follower



- 05 0425 00809 5/16" on 1 1/32" (8 on 9.0 mm)
- 05 0425 00810 5/16" on 1 3/32" (8 on 10.0 mm)
- 05 0425 00885 5/16" on 1 1/32" (8 on 8.5 mm)
- 05 0425 00910 1 1/32" on 1 3/32" (9 on 10.0 mm)

05 0526

Threaded rivets for metal doors

M5 3/16" x 3 1/32" (25 mm)

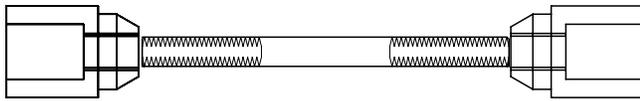
To be used with narrow style rose 1758.



0423 9000

Alignment tool

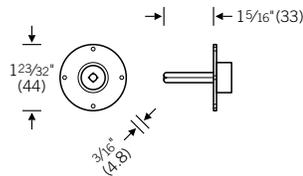
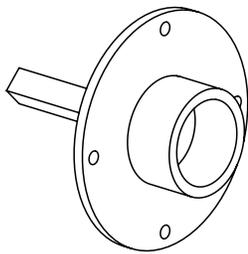
For proper installation of FSB roses.



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	Product Number	Page/s	Product Number	Page/s
03 0418	107, 143, 198	10 1119	57	34 1025	413
03 0440	440	10 1134	58	34 1035	413
03 0441	440	10 1144	59	34 1070	413
03 0450	107, 143, 205, 206, 440	10 1146	60	34 1075	413
05 0103	437	10 1147	61	34 1076	274, 414
05 0115	435	10 1160	62	34 1077	414
05 0156	437	10 1163	63	34 1078	414
05 0199	435	10 1164	64	34 1102	274, 414
05 0302	438	10 1176	65	34 1106	414
05 0303	438	10 1177	66	34 1107	414
05 0308	438	10 1178	67	34 1108	414
05 0309	438	10 1183	68	34 1144	414
05 0315	438	10 1185	69	34 1146	275, 414
05 0316	439	10 1241	70	34 1147	414
05 0319	439	10 1250	71	34 1160	415
05 0402	437	10 1251	72	34 1163	415
05 0423	177, 178, 179, 180	10 1252	73	34 1176	415
05 0425	441	10 1253	74	34 1183	415
05 0526	441	10 1257	75	34 1241	415
05 0553	436	10 1259	76	34 3403	416
05 0580	349, 350, 351, 354	12 1410	264	34 3407	416
05 0582	348	13 4220	283, 284	34 3784	416
05 0583	352	13 4223	285, 286	36 3632	380
05 0587	353	13 4224	287, 288	36 3646	379
05 0599	435	13 4230	289	36 3654	380
10 1001	23	13 4256	250	36 3656	381
10 1002	24	14 1410	111, 112, 147, 148, 164, 182, 263, 264	36 3657	381
10 1003	25			36 3679	381
10 1004	26	14 1550	266	36 3689	380
10 1005	27	17 1703	108, 144, 181	36 3691	380
10 1015	28	17 1704	108, 144	36 4001	382
10 1016	29	17 1705	108, 144, 181	36 9865	382
10 1020	30	17 1712	109, 110, 145, 146, 195, 196	38 3801	383
10 1021	31	17 1731	104, 140, 160, 181	38 3804	383
10 1023	32	17 1735	104, 140, 160, 161, 162, 165	38 3808	384
10 1025	33			38 3810	387
10 1027	34	17 1736	113, 163, 182	38 3816	375
10 1028	35	17 1737	113, 163, 197	38 3817	375
10 1031	36	17 1744	105, 106, 141, 142, 193, 194	38 3826	385, 386
10 1034	37			38 3829	386
10 1035	38	17 1757	160	38 3845	387
10 1045	39	17 1758	107, 143, 160, 182	38 3863	387
10 1051	40	17 1798	104, 140, 181	38 3878	376
10 1053	41	23 0802	355	38 3880	376, 377
10 1057	42	23 0803	355	38 3881	377
10 1058	43	23 0804	356	38 3884	378
10 1070	44	23 0828	357	38 3888	378
10 1074	45	23 0829	357	38 3895	379
10 1075	46	23 0844	358	38 4005	388
10 1076	47	23 0873	358	42 4203	252
10 1077	48	23 0880	359	42 4204	236, 252
10 1078	49	34 1001	413	42 4210	235, 249
10 1080	50	34 1003	413	42 4211	251
10 1088	51	34 1004	273, 413	42 4212	251
10 1093	52	34 1005	413	42 4215	276
10 1102	53	34 1015	413	42 4250	245
10 1106	54	34 1016	273	42 4251	246
10 1107	55	34 1023	413	42 4252	247
10 1108	56			42 4253	248

Product Number Index

Product Number	Page/s	Product Number	Page/s	Product Number	Page/s
42 4254	247	82 8243	407	SML 7158 EU/E	425
42 4255	237, 238, 239, 249	82 8270	393, 394, 395, 396, 399, 400, 401, 403, 405, 408	SML 7158 VEU/VEL	424
42 4299	253	82 8420	398	SML 7159	423
51 5325	344	82 8460	393, 396, 400, 402, 404, 406	SML 7159 EU/EL	425
61 6108	339	88 8806	114, 149	SML 7159 JEU/JEL	424
61 6112	339	88 8812	166	SML 7167	424
61 6184	340	0423 9000	441	SML 7181	424
61 6186	342	0423 9001	441	SPP 7000	254
61 6187	297	9101 0000	365	SW 3	100
61 6188	297	9101 0001	365		
61 6190	298	9101 0002	365		
61 6191	342	9101 0003	365		
61 6192	299	9101 0004	366		
61 6193	299	9101 0005	366		
61 6254	341	9101 0006	366		
61 6268	341	9101 0007	366		
66 6506	301	9101 0050	367		
66 6507	302	9101 0051	367		
66 6514	300	9101 0052	368		
66 6519	303	9101 0053	368		
66 6520	304	EML 0001	429		
66 6526	307	EML 0002	429		
66 6533	309	EML 0003	430		
66 6534	309	EML 1001	167, 430		
66 6535	310	EPP 7000	255		
66 6536	310	HDD 1001	433		
66 6537	311	HDD/HDT 7220	433		
66 6538	312	HLL 1001	183		
66 6540	313	HLL 1002	183		
66 6541	314	HLL 1003	183		
66 6542	315	HLL 7010	431		
66 6546	316	HLL 7230	432		
66 6548	305	HLL 7240	432		
66 6602	319	KDD 1001	434		
66 6610	317	KDD/KDT 7070	434		
66 6611	317	NML 1001	150		
66 6612	318	NML 7100	426		
66 6613	318	NML 7122	426		
66 6615	321	NML 7124	427		
66 6616	322	NML 7125	427		
66 6628	343	NML 7142	427		
66 6629	344	NML 7145	427		
66 6630	323	NML 7148	428		
66 6635	327	NML 7156	428		
66 6642	325	NML 7159	428		
66 6643	325	NML 7181	428		
66 6650	328	SML 1001	115		
66 6652	329	SML 7100	421		
66 6653	330	SML 7122	421		
66 6655	331	SML 7124	422		
66 6662	332	SML 7125	422		
66 6669	320	SML 7134	422		
66 6674	333	SML 7142	422		
66 6675	334	SML 7145	423		
66 6679	335	SML 7148	423		
66 6681	323	SML 7156	423		
66 6683	336	SML 7158	423		
82 8201	397				
82 8241	407				



Franz Schneider Brakel
North America

24 New Park Drive
Berlin, CT 06037

Tel 203 404 4700

Fax 203 404 4710

www.fsbna.com

info@fsbna.com

facebook.com/fsbnorthamerica
instagram.com/fsbnorthamerica

© FSB. All Rights Reserved.