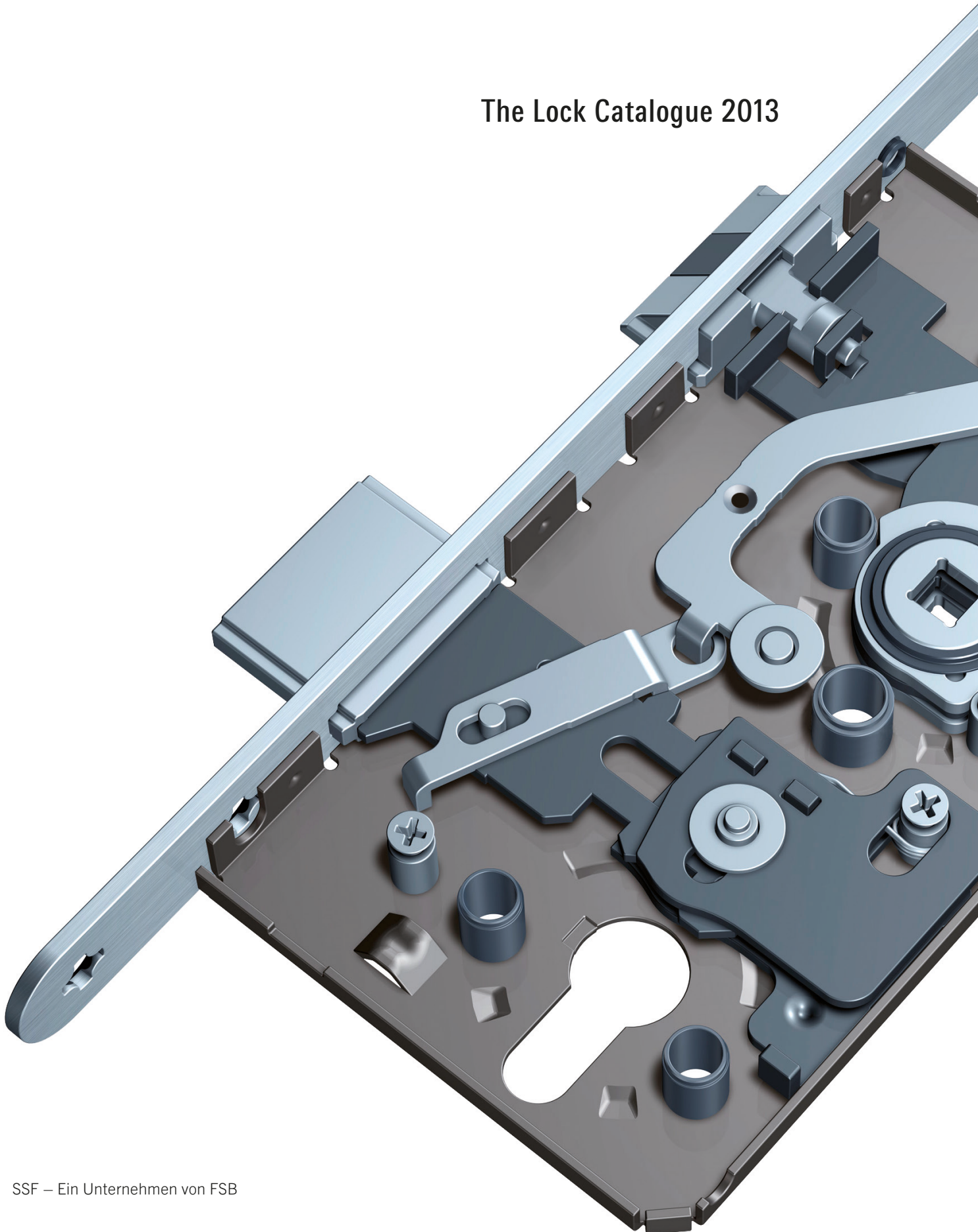




The Lock Catalogue 2013





FSB and SSF have played a pioneering role worldwide by issuing Environmental Product Declarations (EPDs) to ISO 14 025 for specific materials and across ranges. The DGNB certificate is awarded by the German Society for Sustainable Construction for environmentally sensitive, costeffective, user-friendly buildings.

The following EPDs are available in German and can be requested free of charge:

- Door lever handles, window handles, isis T300* in aluminium:
EPD-FSB-2010111-D
- Door lever handles, window handles, isis T300* in stainless steel:
EPD-FSB-2010211-D
- Door lever handles, window handles, isis T300* in bronze and brass:
EPD-FSB-2010311-D
- Barrier-free ErgoSystem® (stainless steel):
EPD-FSB-2010411-D
- Locks and striking plates:
EPD-FSB-2010511-D

* Electronic access management

In proud tradition

The period of promoterism or rapid industrial expansion around the turn of the 19th century was characterized by the transition of single-product production by craftsmen to serial industrial production. The common aspects between the company's founders to the locksmith trade were most likely the catalysts which brought about the chosen trademark of the Sächsische Schlossfabrik.

With a bit of fantasy, the chest lock seemed to resemble a cat's head – after the lock's cover was removed.

When a wandering lock-apprentice applied for a job with a lock master, he would be asked "cat's head?". The tradesman's answer would be: "a piece of it!" This apprentice did not see himself being a fully-fledged expert in all areas of the craft when considering this wide-ranging trade, thus he modestly called himself "a piece of it". This old trade custom is still unforgotten today.

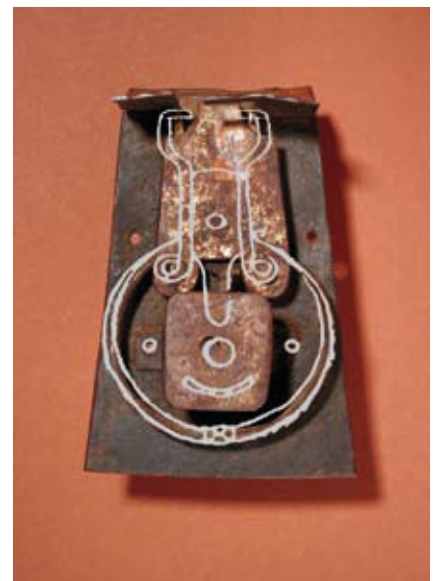
One says that a locksmith has then mastered his craft when all 10 of his fingers are equally long. The message in this idiom is that a locksmith continues to learn throughout his life – and must do so. Therefore the locksmith trade has chosen as a symbol of trade membership a padlock with a cat's head along with the words "piece of it" on it.

It is exactly this craftsman-like attitude which is without a doubt that of the Sächsische Schlossfabrik as a modern industrial company.

Those deserving due recognition in this trade, namely who are "an especially good piece of it" through high quality work, are honoured by receiving a golden cat's head needle.

Even when the Sächsische Schlossfabrik as a production site has not yet received such a medal of honour, it constantly operates in accordance with these traditionally high standards.

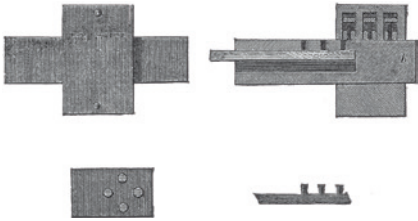
Only few companies can look back on more than a 100-years tradition and pass the torch down through the generations. And so it was only logical for the similarly long history of the companies FSB and Winkhaus when they took over the Sächsische Schlossfabrik to keep the trusted company symbol. The logo is slightly revised to be in the form of a profile cylinder due to the company's 103th year of existence and modern-day view. While the modern profile cylinder stands for technical advancement, the fresh green symbolizes Saxony's emblem colour. The grown (key-) whiskers, acting as a stabilizing organ for the cat, as well as the positive look on the cat's face allow us as a company to likewise view the future with great optimism.



History

Locks

Similar to the history of other inventions, that of the lock- and other security mechanisms go way back to the early period of all human cultures. The oldest findings are of Egyptian origin and are from the 4th century B.C.. They are simple wooden dead locks which were mounted to the inside of a door. To open or close the door from the outside, one pulled on a leather band which was connected through a hole in the door with the dead bolt.



The upper part of the drop bolt lock contains the drop bolts, the so-called tumblers. Gravity causes the pins to fall into the holes in the bolt, thereby blocking it. The prongs at the end of the key lift the drop pins, thus freeing up the bolt.

The first security mechanism using a key was a drop bolt lock which was developed in the 3rd century by the Hittite. At its upper end there were pins which, through their own weight, fell into the holes of a bolt when closing the door and blocked it. When the respective key, containing perfectly fitting prongs, was placed in the lock's hole, it raised the pins again and freed up the bolt. The Hittite drop bolt lock remained nearly unchanged during its almost 2000-year history and can still be found on the treasure chambers of Greek temples from the 6th century B.C.. Based on this

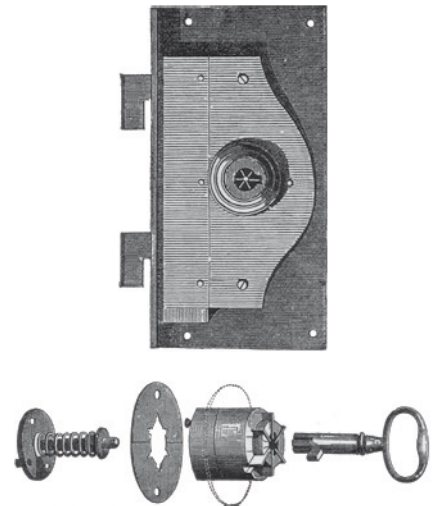
mechanism, the Romans developed the first completely metal lock construction in the first century A.D.. An angled key was a part of it, whose rotation pushed locking pins up or down. In this process, not only door locks but also padlocks were technically developed to such a high degree that they remained unbeatable until the 19th century.



The end of the key's neck contains variously deep cuts.

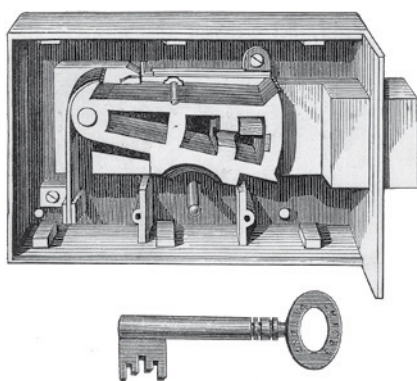
A significant impetus for lock production was the mechanization of ore mining in the late Middle Ages, which resulted in much greater and therefore also cheaper amounts of iron at one's disposal. The level of artistic skill during lock production also increased to the extent that it matched the precision of a clockmaker. The mechanization of production in the wave of the industrial revolution led then to such an enormous gain with regard to technical development that at the turn of the 19th century alone in closing-techniques, more inventions were made than in the entire thousand years before it.

Due to the incomparably high number of pieces which could be produced using mechanical methods, keys and locks were not longer considered prestige items and became a mass product. The inventions of two London locksmiths played a significant part in this process. The first one, Joseph Bramah, developed the cylinder lock to a patent level in 1784. His key, having slits and recesses, moves the padded blocking segments of a cylinder, which when turned, unlocks or locks the door bolt.



The core piece of a Bramah lock contains metal plates which are notched at a certain height and radially arranged around the keyhole.

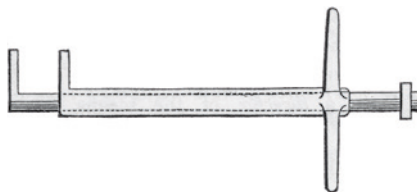
The second, Robert Barron, had the so-called tumbler lock patented in 1778. This developed later into today's mortice locks. For the tumbler lock, the key pushes a heavy bolt forward which is then held by levers. A further development made by the engineer Jeremia Chubb is still today the model of the safe locks.



The Chubb lock is secured via tumblers made of sheet brass. These are hung characteristic of levers and fitted with a canal at a certain height. A pin is fixed on the bolt and glides through the bolt canals when opened. This can only occur when the teeth in the key webs have the correct height and raise the tumblers in the correct position.

When Chubb offered a large monetary prize for that person who could successfully open his lock without the respective key, a condemned criminal came forth after he was promised to be released from prison if he succeeded. A whole week the "expert" toiled over this – in vain.

The dream of the invincible lock suddenly collapsed when a young American A.C. Hobbs took a walk in the Cristal Palace during the large World Exhibition and, within a few minutes and without a trace of damage, opened the lock. With his specifically developed instrument he touched the tumblers and brought them into the correct opening position. After this coup Hobbs used his talent cleverly to protect the tumbler lock against his own invention.



So called "Hobbs Lever", the opening instrument with which Hobbs opened the Chubblock.

The most important development was made by the American locksmith Linus Yale from Philadelphia. In 1848 he developed the lock cylinder which is practically unchanged and still used today. Since the Yale locks contained many fewer variable parts than their predecessor models, they could be produced much more cheaply and opened using much smaller and lighter-weight keys. The increasing number of lock- and security mechanisms made one aware, however, that locksmiths could continue their trade without the use of keys.

This premonition is now a reality. As a result of the cooperation between FSB and Winkhaus, the electronic access control (EAC) already in practice today allows for a contact-free communication between furniture and a chip card/key.



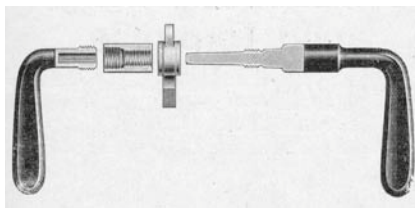
History

Sächsische Schlossfabrik

At the end of the 19th century the kingdom of Saxony developed into a centre for the metal processing industry in Germany.

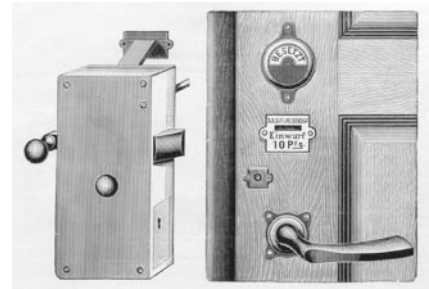
Thus it is no coincidence that the over 100-year-old history one of the most famous German lock factories began in Pegau, a small town 30-kilometer away from Leipzig in the south. It is here that the inventive technician Curd Schlegel and the salesman Richard Lichtenberger founded the company Sächsische Schlossfabrik Schlegel und Lichtenberger on July 1, 1903. Only a few years later they patented so many products of such high quality that they were soon sold throughout Germany.

With the newly constructed, also in foreign countries patented handle mounting in 1911 (see Figure), the door-unscrewing and mortise locks, safe-locks and finally car and truck locks made in Pegau became renowned internationally as German brand products.



Handle mountings "Firmus"

erected in 1936 under the Nazi dictatorship, included products from the Sächsische Schlossfabrik.



Coin rim lock



Door handles from various materials also counted among the very comprehensive delivery programme. The increasing number of requests in the 1920s brought about a factory expansion whose product halls were enhanced by a high-performance equipment building, an automated stamp shop and a metallographic laboratory. The directors of the company meanwhile participated in the German standard committee whose goal it was to standardize industrial products (DIN standard).

Due to a precisely defined product palette through photos and drawings in a well-designed catalogue which customers could view, along with other locksmith shops new customers such as construction firms, hospitals, banks and factories throughout Germany became important customers of the company. Even the Berlin Olympia Stadium,

After Curd Schlegel died in 1945 during a bombardment, his son Werner continued the business. Due to the production during the Second World War of closures for ammunition boxes, cartridge bases and grenade rings, along with door locks, the company was deemed to be a National-socialistic-weapon company and expropriated. On June 30, 1946 the company was changed into the State-Owned Company Sächsische Schlossfabrik Pegau. The machines, by this time very rundown, were then put back to use by the production staff returning from the war. Upon the merging of the Pegauer and Groitzscher Schlossfabrik in 1950, Arno Venus took over as CEO, under whose handing numerous new machines and manufacturing tools were purchased. The production level increased far above that before the war.

In the following years the state-owned company Sachsenschloss, along with other state-owned companies of this industry came under the leadership of the Kombinat Bauelemente und Faserbaustoffe (BAUFA) (Collective Combine Components and Fibrous Materials). The company advanced to become the sole lock producer of the GDR and manufactured millions of mortise locks and other special locks.

At the end of the GDR in November 1989 the company was once again in ruins. This was not only due to the dilapidated set of machines but also because of the fact that the locks of the VEB Sächsische Schlossfabrik were not produced according to DIN, originally influenced by the company, but according to the common GDR TGL standard and the complete lock production based on it.



Since it was not possible for the descendants of the former company owners to regain ownership after the opening of the Wall, because the company belonged to the armaments production in the 40's, the company was privatized by the trust company and transformed into a corporation (GmbH). A competent team of experts under the leadership of company partner Michael Dorn took over the company. After a comprehensive modernization of the machine park, the Sächsische Schlossfabrik GmbH started production of a wide range of DIN standard based lock products in 1992. Similar to the old tradition, the corporation won over satisfied customers throughout Germany due to its high product quality.

In 2001 the entire corporation moved from Pegau to Groitzsch where today door locks and mortise plates are designed and produced for Germany and other countries. The company strives to continue its over 100-year successful history of high-quality locks from Saxony. In 2005 the Sächsische Schlossfabrik was taken over by the tradition-rich companies of FSB and Winkhaus by means of the newly-founded F + W Kooperations GmbH.

Looking ahead to future challenges in further development processes (lock and furniture), "the company FSB is, starting in 2010, the sole owner of the Sächsische Schlossfabrik SSF".



This catalogue contains the vast array of product offerings of the Sächsische Schlossfabrik.
Please note in some categories the optional special furnishings. Due to our focus on a clear overview of products, we have not described all of the possibilities.
Please let us know your wishes.
Additional special customer wishes for mortice locks are always welcome challenges for us, specialists with flexible production possibilities.
Please inquire!

1	Mortice locks for high usage doors	11
2	Mortice locks for fire and panic doors	29
3	Mortice locks for internal doors	39
4	Locks for special use	45
5	Mortice locks for hollow profiled section doors	53
6	Mortice strike plates	65
7	Accessories	77
8	Notes	81

Mortice locks for high usage doors

1

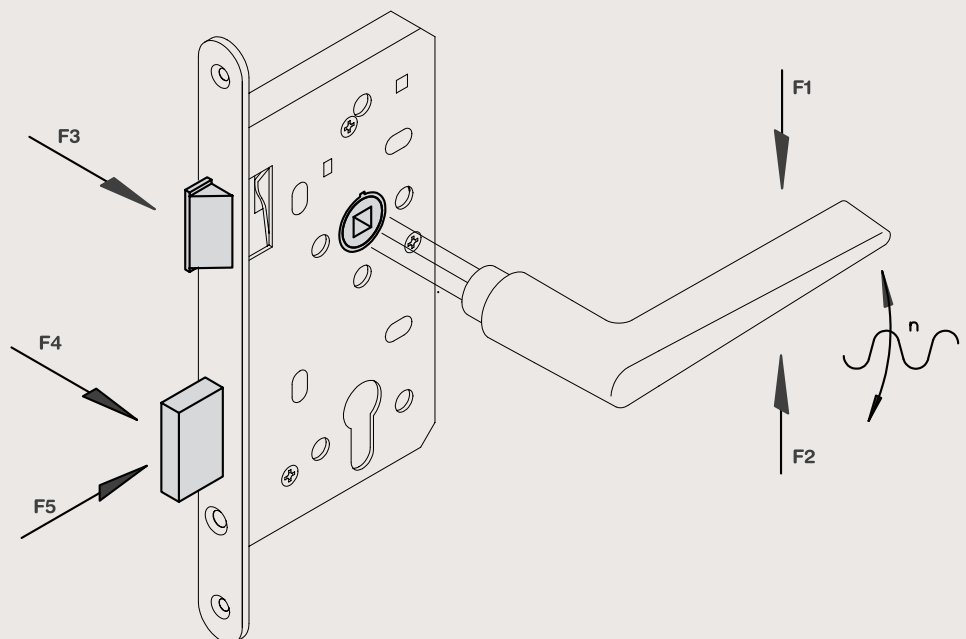
Compared to residential buildings high usage doors are principally subject to considerably higher stresses due to heavier doors and frequent use. Therefore, the locks are to be designed appropriately. These locks are equipped with a race-based clamping follower. The all-around closed and galvanized case is screwed with several locking teeth.

You find the description of the individual high usage locks and their option on the corresponding catalogue pages.

Moreover, the locks of the ET 55 line are equipped with appropriate mortice plates and thus designed for burglar proof doors according to DIN EN 1627 Resistance Class 2.

Product line 50	14
Product line 51	15
Product line 52	16
Product line 53	17
Product line 54	18
Product line 55	19
Product line 55 KF	20
Product line 55RoF	21
Product line 55 ET	22

- F1 = door handle depressed
- F2 = door handle returned
- F3 = latch side load
- F4 = deadbolt site load
- F5 = deadbolt end load
- n = user frequency



The high usage locks of SSF: Made in Germany” from Saxony.

Highly engineered products should also be an essential part of a highly developed society. It is a question of sustainability, too.

Doors have accompany us humans during many decades. This is a good reason to consider durability apart from material, design and engineering for the complete door element. As durability and sustainability is nothing but another kind of efficiency.

Experience has shown us that all has not only its price but that sometimes cheaper things can be more expensive at the end. And vice versa: More expensive can also be cheaper.

The purchase costs are not the only things that matter, the total expenses for the life cycle to be expected must also be taken into account: repairs, maintenance and a possible replacement included. This consideration applies to high usage doors in particular because they are subject to a permanent, extremely high load: open-closed, open-closed, open-closed – and this over decades. Therefore, the stability of the complete door assembly is of the utmost importance. And this is just the result of the features of all single components:

lock, furniture, cylinder, flap hinges, frame, leaf.

Special attention is paid to moving parts. And it is not enough to meet the standards.

They concern only the individual elements but the complete door assembly is not or almost not considered. But it is known that the overall performance always depends on the weakest link of a chain.

The lock is the most important element.

In DIN 18251-1 and 18250 the dimension standards are mainly defined and the quality requirements are categorized in five classes.

Class	Latch spring force N		Furniture support moment	Furniture moment	Static latch load	Static bolt load	Bolt counteracting force
	min.	max.	Nm	Nm	kN	kN	kN
1	-	-	min. 0,8	-	-	-	-
2	2,5	4,0	1,2±0,4	40	3	4	-
3	2,5	4,0	1,5±0,4	50	3	6	2
4	2,5	4,0	1,5±0,4	50	5	10	4
5	2,5	4,0	1,5±0,4	50	5	10	6

Class 1:
locks for light weight doors

Class 2:
locks for internal doors

Class 3:
cylinder locks for flat entrance doors and light high usage doors

Class 4:
cylinder locks for medium usage doors with increased user frequency (+ burglar proofness)

Class 5:
high usage cylinder locks with increased user frequency (+ burglar proofness)

Apart from the lock class categorization according to DIN 18 251-1 Classes 3-5 SSF locks of the product line 5... following the European standard EN 12 209 are tested and certified by the PIV Testing Institute Locks & Fittings. EC – Certificate of Conformity 1309 - CPD - 0113 (product lines 50/53) EC – Conformity Certificate 1309 - CPD - 0114 (product lines 51/52/54/55) SSF locks can be provided with the CE mark.

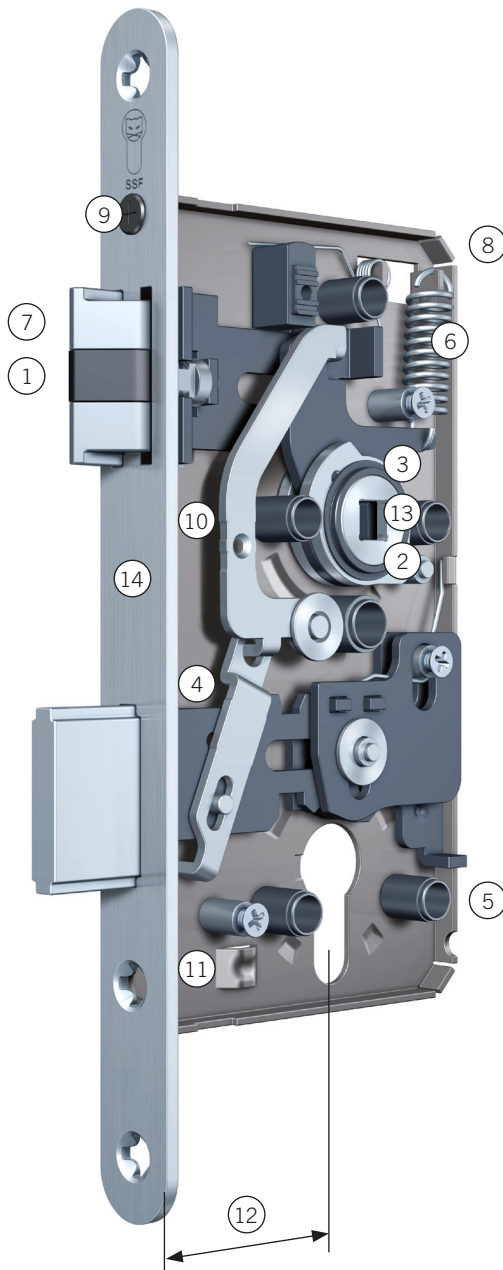
The classification codes are assigned to the corresponding lock models on the individual catalogue pages. See page 92 for the explanation of the classification code.

Experience has shown that in practice the lock classification is selected according to the expected load level of the door. This can be sufficient for normal doors but not for high usage doors.

To prevent uncertainties in the estimation of the load level the Sächsische Schlossfabrik principally recommends selecting Class 5 for SSF object locks for high usage doors; and the 9 mm lock follower implies the fire proofness as well.

By selecting an SSF object lock “Made in Sachsen-Germany” you decide for reliability over decades and are for sure on the safe side of the door.

Lock product lines ES 52 and ES 55



Class 5 with special features:

1. Latch bolt made of steel, nickel-plated with noise reduction
2. Clamping follower made of steel
3. Follower bearing rings made of steel
4. Bolt shank made of hardened steel with conical bolt head
5. Sleeved bolt through points
6. Tension spring, fatigue-proof for furniture support force
7. Centre latch and bolt arrangement with latch reversible for right/left hand application as equipment detail for flush doors
8. Lock case closed all-around, galvanized and lacquered
9. Relubrication system
10. Corrosion protection class 4 according to DIN EN 1670 (240 hrs. salt spray fog testing)
11. Cylinder head screw guide
12. Backset sizes from 50 - 100 mm
13. For fire doors (DIN 18250) with 9 mm follower
14. Lock forend made of stainless steel, non-corroding material no. 4301

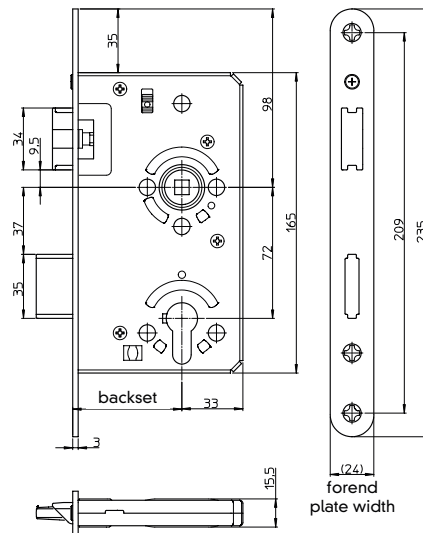
Product line 50

Mortice lock

for flush doors, centre type
reversible for right and left hand
application
according to DIN 18251-1
Class 3



Classification code according to EN 12 209										
3	M	5	1	0	F	3	B	C	2	0



Mortice lock ES	ES
Product line 50	50
- PZ double-turn with key operated spring bolt	PZW
- WC type	WC
flat rounded forend plate	FR
forend plate width - 20 / 24 mm	24
backset sizes - 55 / 60 / 65 mm	55
centres - PZ 72 mm	72
- WC 78 mm	78
square follower size 8 mm	08
forend design - stainless steel fine satin (material no. 1.4301)	EST

Equipment:

- clamping follower made of steel galvanized
- follower support made of polyamide
- latch precision cast nickel-plated
- bolt made of steel,
bolt head casting nickel-plated
- lock case all-around closed,
galvanized
- sleeved bolt through fixing points
- relubrication system

Options:

- flat forend edged **FK**
- forend colours on stainless steel lacquered
 - silver metallic **silb**
 - white **white**
- forend material
 - brass polished (not for FH design) **mspo**
- latch with noise reduction **FG**
- backset 70 / 80 / 100 mm **70**
- square follower 9 mm (FH design) **09**
- square follower 10 mm **10**
(consider delivery times)

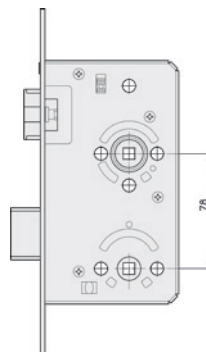


Fig.: WC type

Example for article identification

ES 50 PZW FR 24 / 55 72 08 EST

ES 50 WC FR 24 / 55 78 08 EST

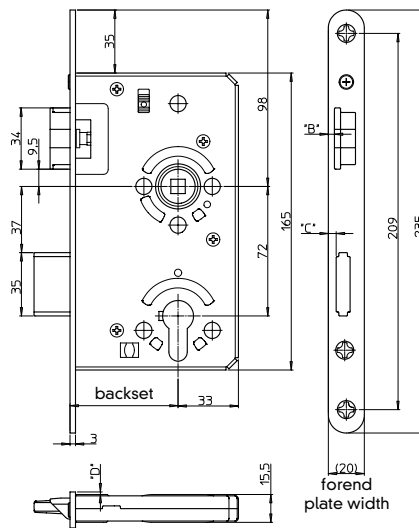
Product line 53

Mortice lock

according to DIN 18251-1
Class 3
for high usage doors



Classification code according to EN 12 209										
3	M	5	1	0	F	3	B	C	2	0



Dimens. A	Dimens. B	Dimens. C	Dimens. D
20	3.4	4.0	1.4
24	6.0	6.6	4.0

Mortice lock	ES
Product line 53	53
- PZ double-turn with key operated spring bolt	PZW
- WC type	WC
flat rounded forend plate	FR
forend plate width	20 / 24 mm
backset sizes	55 / 60 / 65 mm
centres	PZ 72 mm
	WC 78 mm
square follower size	8 mm
handing	right hand
	left hand
forend plate design	Stainless steel fine satin (Material no. 1.4301)

Equipment:

- clamping follower made of steel galvanized
- follower support made of polyamide
- latch precision cast nickel-plated
- bolt made of steel, bolt head cast nickel-plated
- lock case all-around closed, galvanized
- sleeved bolt through fixing points
- relubrication system

Options:

- flat forend edged **FK**
 - Front plate colours on stainless steel lacquered
 - silver metallic **silb**
 - white **white**
 - Front plate material
 - Brass polished (not for FH design) **mspo**
 - Latch with noise reduction **FG**
 - backset 70 / 80 / 100 mm **70**
 - square follower 9 mm (FH design) **09**
 - square follower 10 mm **10**
- (Consider delivery times)

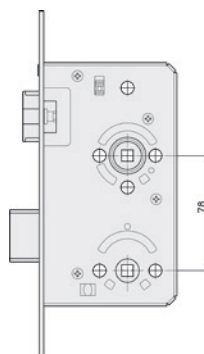


Fig.: WC type

Example for article identification

ES 53 PZW FR 20 / 55 72 08 LS EST

ES 53 WC FR 20 / 55 78 08 LS EST

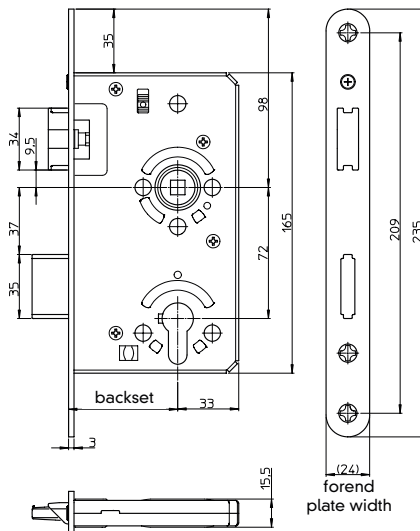
Product line 51

Mortice lock

for flush doors, centre type
 reversible for right and left hand application
 according to DIN 18251-1
 Class 4
 for standard doors
 with high user frequency



Classification code according to EN 12 209										
3	S	5	1	0	G	6	B	C	2	0



Mortice lock	ES
Product line 51	51
- PZ double-turn with key operated spring bolt	PZW
- WC type	WC
flat rounded forend plate	FR
forend plate width - 20 / 24 mm	24
backset sizes - 55 / 60 / 65 mm	55
centres - PZ 72 mm	72
- WC 78 mm	78
square follower size 8 mm	08
forend design - Stainless steel fine satin (Material no. 1.4301)	EST

Equipment:

- clamping follower made of steel galvanized
- follower support of steel rings
- latch precision cast nickel-plated
- bolt made of steel, bolt head cast nickel-plated, galvanized
- lock case all-around closed, galvanized
- sleeved bolt through fixing points
- relubrication system

Options:

- flat forend edged **FK**
- forend colours on stainless steel lacquered
 - silver metallic **silb**
 - white **white**
- forend material
 - brass polished (not for FHdesign) **mspo**
- latch with noise reduction **FG**
- backset 70 / 80 / 100 mm **70**
- square follower 9 mm (FH design) **09**
- square follower 10 mm **10**
 (consider delivery times)

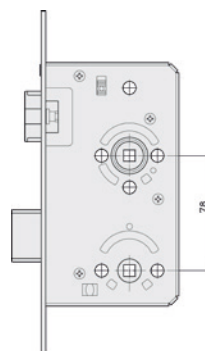


Fig.: WC type

Example for article identification

ES 51 PZW FR 24 / 55 72 08 EST

ES 51 WC FR 24 / 55 78 08 EST

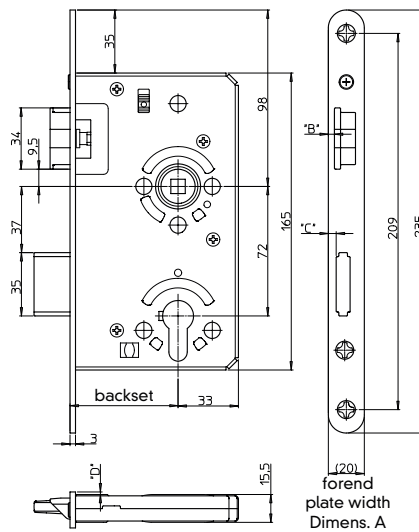
Product line 54

Mortice lock

according to DIN 18251-1
Class 4
for high usage doors
with high user frequency



Classification code according to EN 12 209										
3	S	5	1	0	G	6	B	C	2	0



Dimens. A	Dimens. B	Dimens. C	Dimens. D
20	3.4	4.0	1.4
24	6.0	6.6	4.0

Mortice lock	ES
Product line 54	54
- PZ double-turn with key operated spring bolt	PZW
- WC type	WC
flat rounded forend plate	FR
forend plate width	20 / 24 mm
backset sizes	55 / 60 / 65 mm
centres	72 mm
- WC	78 mm
square follower size	8 mm
handing	right hand
- left hand	RS
forend plate design	Stainless steel fine satin (Material no. 1.4301)
	EST

Equipment:

- clamping follower made of steel galvanized
- follower support of steel rings
- latch precision cast nickel-plated
- bolt made of steel, bolt head cast nickel-plated
- lock case all-around closed, galvanized
- sleeved bolt through fixing points
- relubrication system

Options:

- flat forend edged **FK**
 - Front plate colours on stainless steel lacquered
 - silver metallic **silb**
 - white **white**
 - Front plate material
 - Brass polished (not for FH design) **mspo**
 - backset 70 / 80 / 100 mm **70**
 - square follower 9 mm (FH design) **09**
 - square follower 10 mm **10**
- (Consider delivery times)

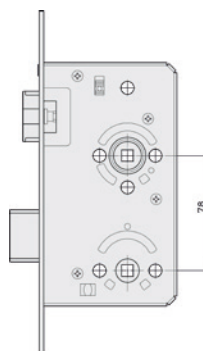


Fig.: WC type

Example for article identification

ES 54 PZW FR 20 / 55 72 08 RS EST

ES 54 WC FR 20 / 55 78 08 RS EST

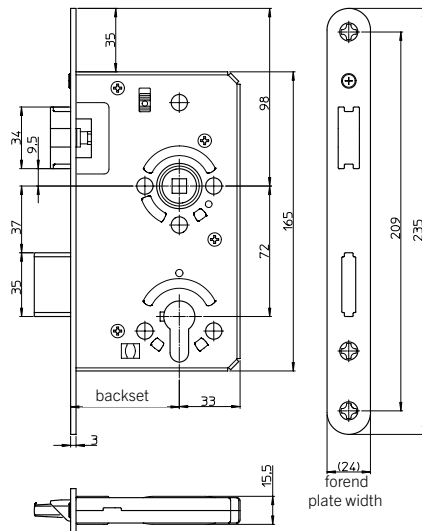
Product line 52

Mortice lock

for flush doors, centre type
 reversible for right and left hand application
 according to DIN 18251-1
 Class 5
 for high usage doors
 with high user frequency
 and increased burglar proofness



Classification code according to EN 12 209										
3	S	5	1	0	G	6	B	C	2	0



Mortice lock for flush doors	ES
Product line 52	52
- PZ double-turn with key operated spring bolt change	PZW
- WC type	WC
flat rounded forend plate	FR
forend plate width - 20 / 24 mm	24
backset sizes - 55 / 60 / 65 mm	55
centres - PZ 72 mm	72
- WC 78 mm	78
square follower size 8 mm	08
handing - reversible	
forend design - Stainless steel non-corroding precision-ground (Material no. 1.4301)	EST
Equipment:	
- clamping follower made of steel galvanized	
- follower support of steel rings	
- latch precision cast nickel-plated	
- bolt made of high-strength refined special steel, bolt head cast nickel-plated	
- lock case all-around closed, galvanized and lacquered	
- sleeved bolt through fixing points	
- noise reduction for latch and follower	
- relubrication system	

Options (Consider delivery times):

- flat forend edged **FK**
- forend design **EST**
- Front plate colours on stainless steel lacquered
 - Silver metallic **silb**
 - White **white**
- Front plate material
 - Brass polished (not for FH design) **mspo**
- backset 70 / 80 / 100 mm **70**
- square follower 9 mm (FH design) **09**
- square follower 10 mm **10**

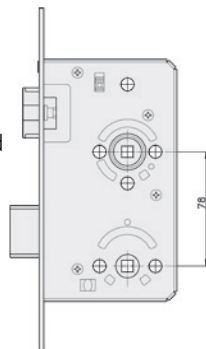


Fig.: WC type

Example for article identification

ES 52 PZW FR 24 / 55 72 08 RS EST

ES 52 WC FR 24 / 55 78 08 RS EST

Product line 55

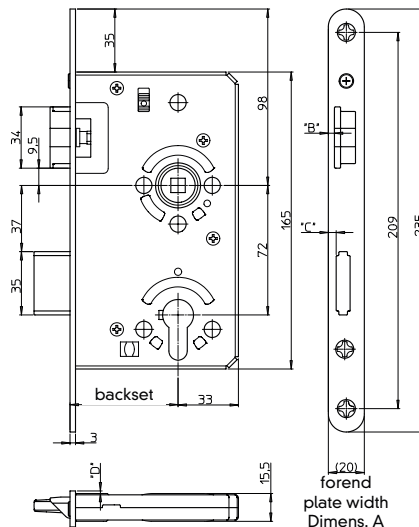
Mortice lock

according to DIN 18251-1
Class 5

for high usage doors
with high user frequency
and increased burglar proofness



Classification code according to EN 12 209										
3	S	5	1	0	G	6	B	C	2	0



Dimens. A	Dimens. B	Dimens. C	Dimens. D
20	3.4	4.0	1.4
24	6.0	6.6	4.0

Mortice lock	ES
Product line 55	55
- PZ double-turn with key operated spring bolt	PZW
- WC type	WC
flat rounded forend plate	FR
forend plate width	20 / 24 mm
backset sizes	55 / 60 / 65 mm
centres	72 / 78 mm
square follower size	8 mm
handing	right hand / left hand
forend plate design	Stainless steel non-corroding precision-ground (Material no. 1.4301)
Equipment:	<ul style="list-style-type: none"> clamping follower made of steel galvanized follower support of steel rings latch precision cast nickel-plated bolt made of high-strength refined special steel bolt head cast nickel-plated lock case all-around closed, galvanized and lacquered sleeved bolt through fixing points noise reduction for latch and follower relubrication system

Options:

- flat forend edged **FK**
 - Front plate colours on stainless steel lacquered
 - silver metallic **silb**
 - white **white**
 - Front plate material
 - Brass polished (not for FH design) **mspo**
 - backset 70 / 80 / 100 mm **70**
 - square follower 9 mm (FH design) **09**
 - square follower 10 mm **10**
- (Consider delivery times)



Fig.: WC type

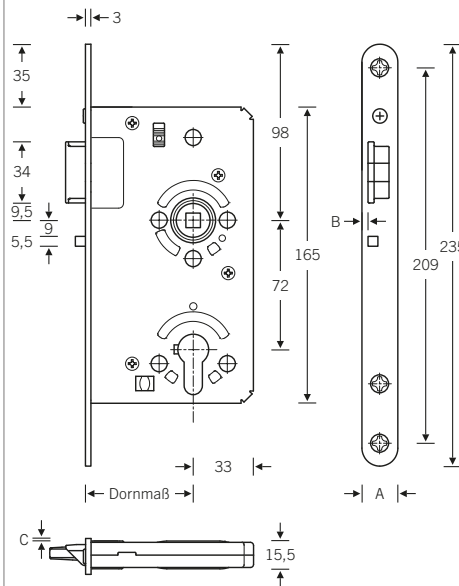
Example for article identification

ES 55 PZW FR 20 / 55 72 08 RS EST

ES 55 WC FR 20 / 55 78 08 RS EST

Product line 50 | 53

Mortice lock
as latch lock with anti-thrust
bolt and lifter assembly
according to DIN 18 251-1 Class 3



Dimens. A	Dimens. B	Dimens. C
20	3,4	1,4
24	6,0	4,0

Product line 50 | 53 –
Class 3 according to DIN 18 251-1

Mortice lock ES
Product line 53 53

PZ double-turn with key operated PZW
anti-thrust bolt FSP

flat rounded: FR
forend plate width: 20
– 20 / 24 mm

backsets: 55
– 55 / 60 / 65 mm

centres: 72
– PZ 72 mm

square follower size: 08
– 8 mm □

handing details: RS
RH LS
LH

forend design EST
– stainless steel fine satin
(material no. 1.4301)

Equipment

- self-tightening follower in galvanised steel
- polyamide/steel-ring follower bearings
- latch bolt as galvanised steel casting
- auxiliary slide in polyamide
- lock case wholly enclosed
- chip guards
- relubrication facility

Classification code according to EN 12 209:

3	M	5	1	0	F	3	B	C	2	0
---	---	---	---	---	---	---	---	---	---	---

Options (please note delivery times)

- sound damping for latch bolt
- forend colours on lacquered stainless steel: Silver metallic, White
- forend material polished brass
- backsets 70 or 80 mm
- 9 mm □ . square follower hole (FH variant)
- Series 50, 51 and 52 for non-rebated doors, centre variant, can be supplied non-handed

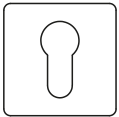
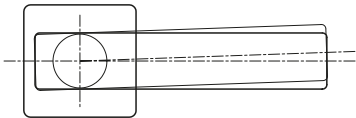
* It is also necessary to adapt the auxiliary slide to the handing of the hardware/ door by unscrewing and reversing it.
Example for article identification:

ES 52 FSW FSP FR 24 | 55 72 08 RS EST



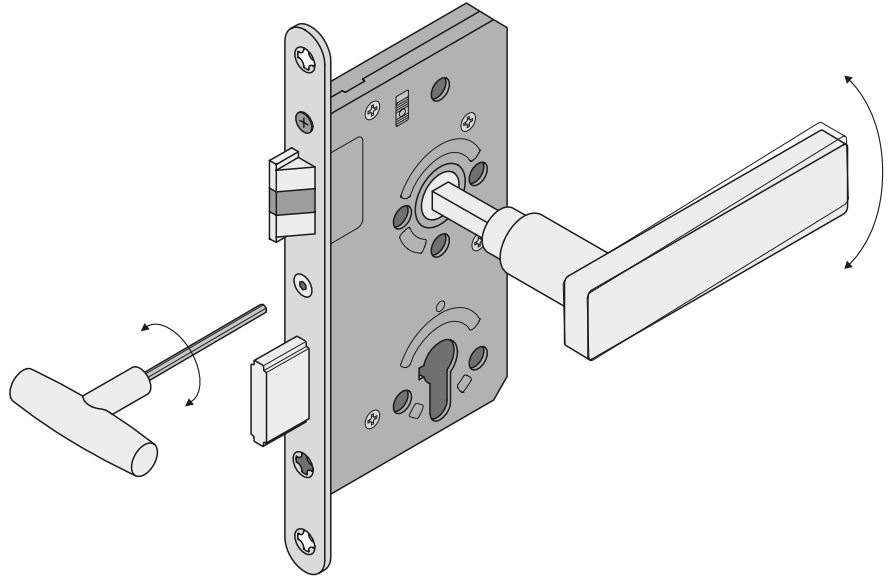
It's a straight case of better looks: Angle adjustment of the lock follower

SSF 50-55 Series locks are optionally available with a device for adjusting the angle of the lever handle. DIN 18 251-1 states that the lock follower may be supplied and assembled with an angle adjustment of max. 2° upwards. The consequence of this, however, is that visual shortcomings emerge at the assembly stage - notably in the case of geometrically linear lever handle forms, very much to the annoyance of users who lay store by matters of fine detail and to whom a tidy looking door with strictly horizontal lever handle is paramount.

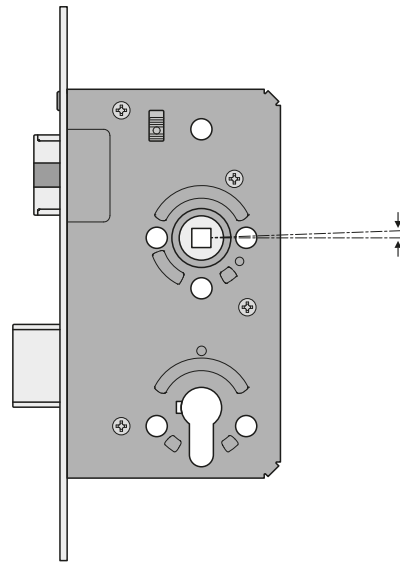


SSF 50-55 Series locks make up for this deficit through the option of placing the lock follower at an angle. With the lock and lever handle fully fitted it is possible to move the latter up to 3° downwards by rotating a screw in the forend and in this way offset the angling permitted by the standard.

SSF 50-55 Series locks:
subsequent adjustment of up to 2° for aesthetic purposes



Admissible under DIN 18 251-1:
lock follower angled no more than. 2° upwards



Illustrative order:

ES 55 NV PZW FR 24 | 55 72 08 RS EST

(for a Series 55 lock with angle adjustment, forend 24 mm, backset 55 mm, EPC 72 mm, follower 8 mm, RH)

Product line 52 NV

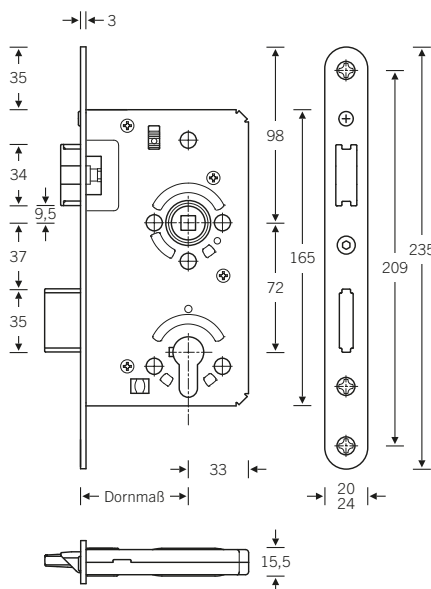
Mortice lock

for non-rebated doors, centre variant, non-handed, for heavily used doors requiring enhanced resistance to burglary according to DIN 18 251-1 Class 5



Classification code according to EN 12 209:

3	S	5	1	0	G	6	B	C	2	0
---	---	---	---	---	---	---	---	---	---	---



Mortice lock ES
Product line 52 52

PZ double-turn with key operated anti-thrust bolt PZW WC

flat rounded: FR

forend plate width:
– 20 / 24 mm 20

backsets:
– 55 / 60 / 65 mm 55

centres:
– PZ 72 mm 72
– WC 78 mm 78

square follower size:
– 8 mm □ 08

handing details:
RH RS
LH LS

forend design
– stainless steel fine satin (material no. 1.4301) EST

Equipment

- self-tightening follower in galvanised steel
- steel-ring follower bearings
- latch bolt as galvanised steel casting
- deadbolt in rugged, heat-treated special-grade steel, bolt head as nickel-plated casting
- lock case wholly enclosed
- chip guards
- sound-damped latch
- relubrication facility

Options (please note delivery times)

- Flat forend with straight corners FK
- forend variant polished stainless steel
- stainless steel forend lacquered:
 - metallic silver silb
 - white white
- forend material polished brass (not for FH variant)
- backsets 70/80/100 mm 70 | 80 | 100
- 9 mm square follower hole (FH variant) 09
- 10mm square follower hole 10
- also obtainable in Class 3 (Series 50) and Class 4 (Series 51)

Example for article identification:

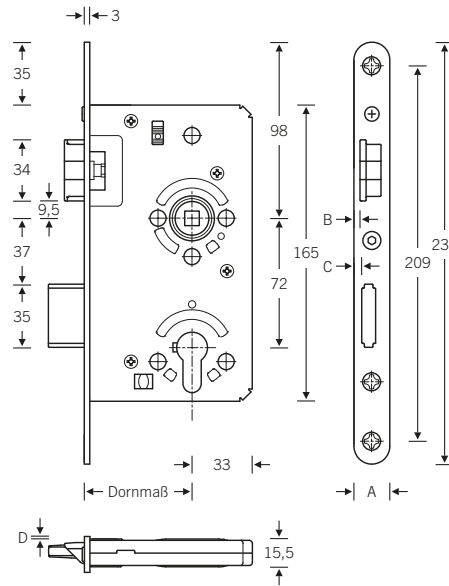
ES 52 PZW FR 24 | 55 72 08 EST
ES 52 WC FR 24 | 55 78 08 EST

Product line 55 NV

Mortice lock
 for heavily used doors requiring
 enhanced resistance to burglary
 according to DIN 18 251-1 Class 5



Classification code according to EN 12 209:										
3	S	5	1	0	G	6	B	C	2	0



Dimens. A	Dimens. B	Dimens. C	Dimens. D
20	3,4	4,0	1,4
24	6,0	6,6	4,0

Mortice lock	ES
Product line 55	53
PZ double-turn with key operated anti-thrust bolt	PZW WC
flat rounded:	FR
forend plate width: – 20 / 24 mm	20
backsets: – 55 / 60 / 65 mm	55
centres: – PZ 72 mm – WC 78 mm	72 78

square follower size: – 8 mm □	08
handing details: RH LH	RS LS
forend design – stainless steel fine satin (material no. 1.4301)	EST

Equipment

- self-tightening follower in galvanised steel
- steel-ring follower bearings
- latch bolt as galvanised steel casting
- deadbolt in rugged, heat-treated special-grade steel, bolt head as nickel-plated casting
- lock case wholly enclosed
- chip guards
- sound-damped latch
- relubrication facility

Options (please note delivery times)

- Flat forend with straight corners FK
- forend variant polished stainless steel
- stainless steel forend lacquered:
 - metallic silver silb
 - white white
- forend material polished brass (not for FH variant)
- backsets 70/80/100 mm 70 | 80 | 100
- 9 mm square follower hole (FH variant) 09
- 10mm square follower hole 10
- also obtainable in Class 3 (Series 50) and Class 4 (Series 51)

Example for article identification:

ES 55 PZW FR 20 | 55 72 08 RS EST
 ES 55 WC FR 20 | 55 78 08 RS EST

Product line 55 KF

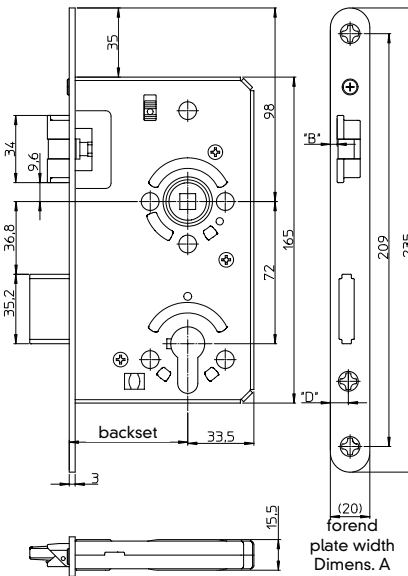
Mortice lock with shared latch

according to DIN 18251-1
Class 5

for high usage doors
with high user frequency
and increased burglar proofness



Classification code according to EN 12 209										
3	S	8	1	0	G	6	B	C	2	0



Dimens. A	Dimens. B	Dimens. D
20	3.4	9.1
24	5.4	11.1

Mortice lock	ES
Product line 55	55
with shared latch	KF
PZ double-turn with key operated spring bolt change	PZW
flat rounded - forend plate	FR
forend plate width - 20 / 24 mm	24
backset sizes - 60 / 65 mm	65
centres PZ 72 mm	72
square follower size - 8 / 9 mm	08
handing - right hand - left hand	RS LS
forend plate design - Stainless steel non-corroding precision-ground (Material no. 1.4301)	EST
Equipment:	
<ul style="list-style-type: none"> · clamping follower made of steel galvanized · follower support of steel rings · crank latch made of steel nickel-plated · bolt made of high-strength refined special steel · bolt head cast nickel-plated · lock case all-around closed, galvanized and lacquered · sleeved bolt through fixing points · noise reduction for latch and follower · relubrication system 	

Options:

- flat forend edged **FK**
 - Front plate colours on stainless steel lacquered
 - silver metallic **silb**
 - white **white**
 - Front plate material
 - Brass polished (not for FH design) **mspo**
 - backset 70 / 80 / 100 mm **70**
 - square follower 9 mm (FH design) **09**
 - square follower 10 mm **10**
- (Consider delivery times)



Fig.: WC type

Example for article identification

ES 55 KF PZW FR 24 / 65 72 08 RS EST
ES 55 KF WC FR 24 / 65 78 08 LS EST

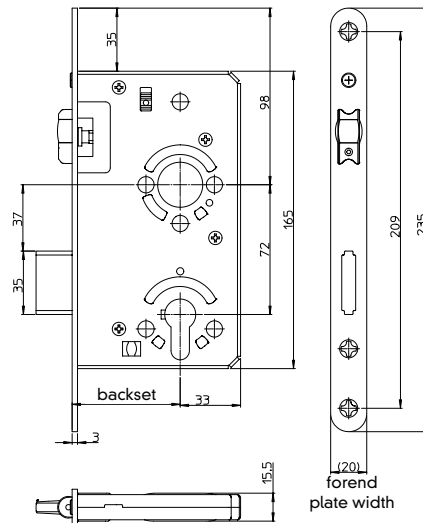
Product line 55 RoF

Mortice swing door lock with roller latch and bolt

according to DIN 18251-1
for high usage doors
with high user frequency



Classification code according to EN 12 209										
3	S	5	0	0	G	6	B	C	2	0



Mortice lock	ES
Product line 55	55
Lock with roller latch	RoF
PZ double-turn with key operated spring bolt	PZW
flat rounded - forend plate	FR
forend plate width - 20 / 24 mm	20
backset size 65 mm	65
centres PZ 72 mm	72
forend plate design - Stainless steel non-corroding precision-ground (Material no. 1.4301)	EST

Equipment:

- bolt made of high-strength refined steel
- bolt head cast nickel-plated
- lock case all-around closed, galvanized and lacquered
- sleeved bolt through fixing points
- relubrication system
- adjustable roller latch 2 - 9 mm

Options:

- flat forend edged **FK**
- Front plate colours on stainless steel lacquered
 - silver metallic **silb**
 - white **white**
- Front plate material
 - Brass polished (not for FH design) **mspo**
- backset 70 / 80 / 100 mm **70**
- square follower 9 mm (FH design) **09**
- square follower 10 mm **10**

(Consider delivery times)

Example for article identification

ES 55 RoF PZW FR 20 / 65 72 EST

Product line 55 ET

Mortice lock with double front plate
 according to DIN 18251-1
 Class 5
 and DIN EN 1627
 for burglar proof doors
WK 2 qualified

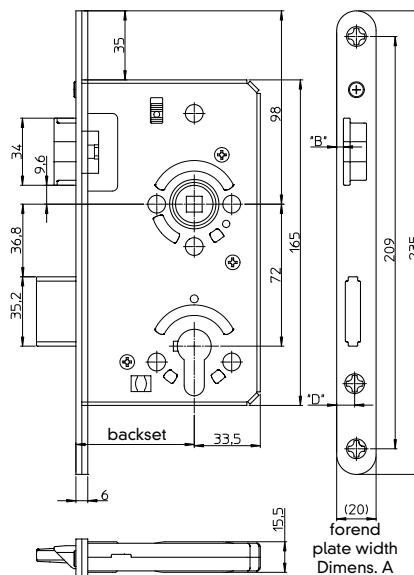


Classification code according to EN 12 209										
3	S	5	1	0	G	6	B	C	2	0

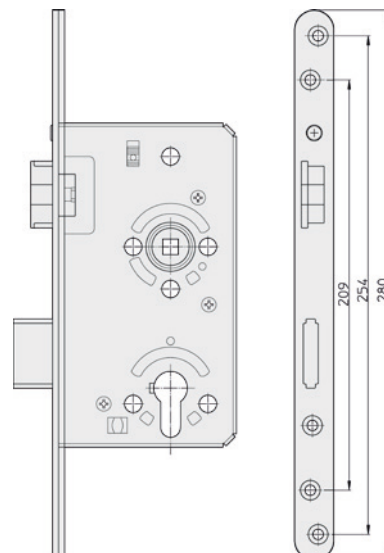
Options:

- forend plate colours on stainless steel lacquered
 - backset 70 / 80 / 100 mm
 - square follower 9 / 10 mm
 - forend plate length 280 mm
- (Consider delivery times)

silb
70
09
10



Dimens. A	Dimens. B	Dimens. D
20	3,4	9,1



Mortice lock burglar proof-locks **ET**

Product line 55 **55**

PZ double-turn with key operated spring bolt **PZW**

flat rounded forend plate, double thickness **FR**

forend plate width 20 mm **20**

backset sizes - 55 / 60 / 65 mm **55**

centres PZ 72 mm **72**

square follower size - 8 / 9 mm **08**

handing - right hand **RS**
 - left hand **LS**

forend plate design - Stainless steel non-corroding precision-ground (Material no. 1.4301) **EST**

Equipment:

- clamping follower made of steel galvanized
- follower support of steel rings
- latch cast nickel-plated
- bolt made of high-strength refined steel
- bolt head cast nickel-plated
- lock case all-around closed, galvanized and lacquered
- sleeved bolt through fixing points
- relubrication system
- double forend plate 6 mm
- for fire doors with 9 mm follower

Example for article identification

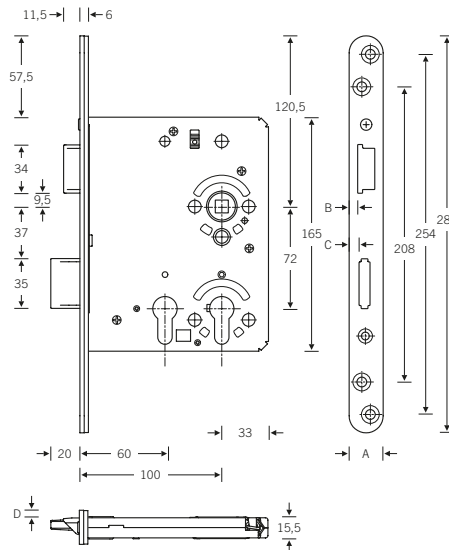
ET 55 PZW FR 20 / 55 72 08 RS EST

Product line 55 DZ

Mortice lock
with 2-cylinder keyway
for burglar resistant doors
WK 2 qualified
according to DIN 18 251-1 Class 5
and DIN EN 1627



Classification code according to EN 12 209:										
3	S	5	1	0	G	6	B	C	2	0



Dimens. A	Dimens. B	Dimens. C	Dimens. D
20	3,4	4,0	1,4
24	6,0	6,6	4,0

Mortice lock	ES
Product line 55	53
PZ double-turn with key operated double cylinder	PZW WC
flat double forend: rounded	FR
forend plate width: 20 mm	20
backsets: 60 mm	60
100 mm	100
centres: PZ 72 mm	72
square follower size: 8 mm □	08
9 mm □	09
handing details: RH	RS
LH	LS
forend design: stainless steel	EST
fine satin	
(material no. 1.4301)	

Equipment

- self-tightening follower in galvanised steel
- steel-ring follower bearings
- latch bolt as galvanised steel casting
- deadbolt in rugged, heat-treated special-grade steel
- lock case wholly enclosed
- chip guards
- Double forend 6 mm
- Fire-resistant with 9mm follower

Options (please note delivery times)

- stainless steel forend lacquered: metallic silver silb
- 10mm square follower hole 10
- Forend length 235 mm 235
- forend width 24 mm 24
- mechanical locking indicator SAZ
- single forend

Example for article identification:

ET 55 PZW DZ FR 20 | 100 72 08 RS ES

Mortice locks for fire and panic doors

2

SSF guarantees that the cylinder locks of the product line 20 for fire, smoke control and emergency exit doors meet the guidelines of DIN 18250, Class 3.

The Certificate of Conformity and the general construction supervision test certificate of the MPA Dortmund have been received and are reflected by the Ü mark on the lock front plate.



Apart from the proven fire-protective quality according to DIN 18 250 (Ü mark) and the classification according to DIN 18 251 - 1 received in a test at the MPA NRW in Dortmund / Germany, the certificate according to the European standard EN 12 209 was confirmed for SSF mortice locks for fire and panic doors by the EC Certificate of Conformity 0432 - BPR - 0120 from April 2007. SSF fire and panic locks of the product lines 20 / 21 can be provided with the CE sign.

The classification codes are assigned to the corresponding lock models on the individual catalogue pages. See page 92 for the explanation of the classification code.

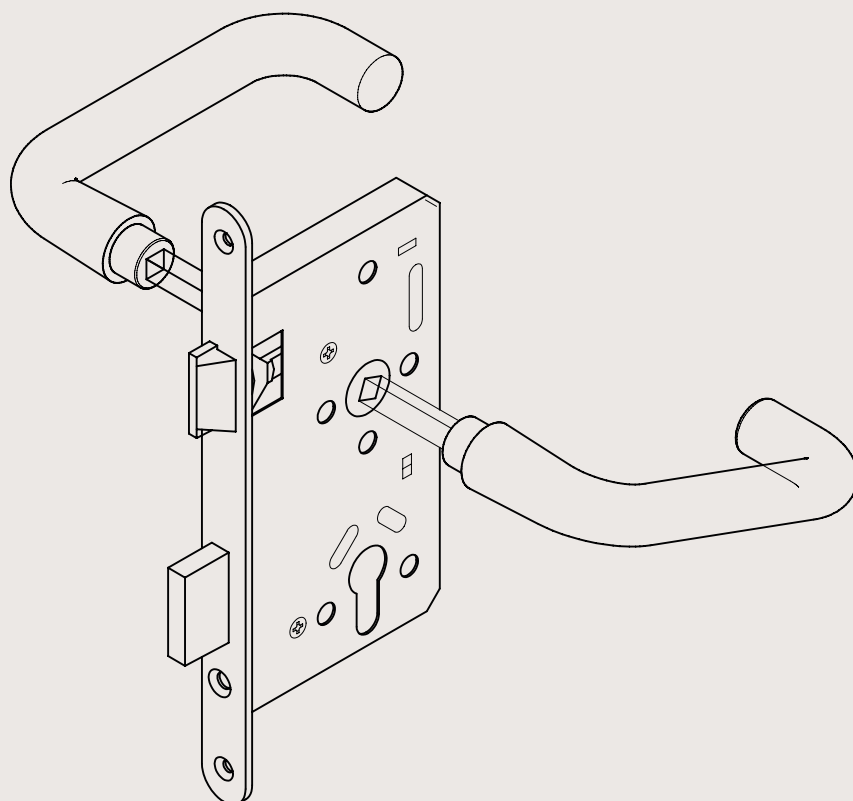
You can find descriptions and options on the individual catalogue pages. Please inform about the different functional options of the panic bolt locks, too.

A special feature is provided by the installation of a microswitch that allows the feedback to an electronic furniture.

Moreover, locks of the product line 20 E combined with appropriate mortice plates are designed for burglar proof doors according to DIN EN 1627 Resistance Class 2. Lock and furniture test with the relevant certificates following DIN EN 179 have been received. Please request.

We recommend the installation of suitable SSF mortice plates and lock cylinders of the Winkhaus door technology and certified FS door furnitures or FS protection furnitures of FSB.

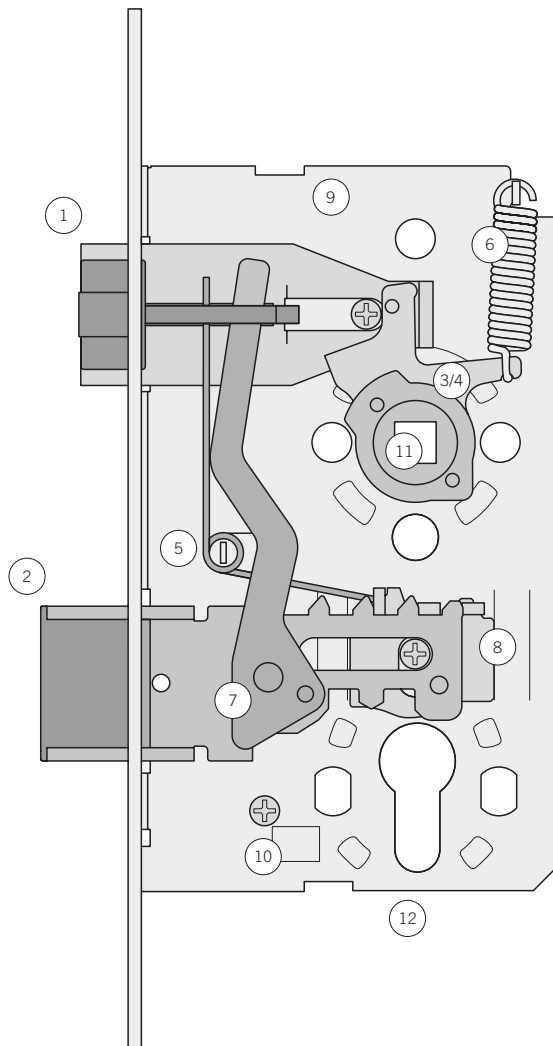
Functional description of panic locks	24
Product line 20	25
Product line 20 E	26
Product line 20 APE	27
Product line 20 APD	28
Product line 20 APK	29



Wholly “made in Germany”, fine detail like nothing else on the market

SSF has introduced a new generation of mortice locks with its ES/FH 19 and ES/FH 24 Series featuring a technology for the working parts that is unique to the market. The latch and lock bolts combine steel castings with injection-moulded plastic guideways and retention elements. This combination is conducive to excellent kinematic properties and good sound damping both in the lock itself and in the interaction between latch bolt and striking plate. Lock models in the ES/FH 24 Series come with a forend in stainless steel. The self-tightening follower, follower plate and bushing sleeve are made of galvanised steel.

Whereas models ES 19 and ES 24 are supplied as heavy-duty locks as well as in warded key and bathroom variants, FH 19 and FH 24 locks meet all requirements for fitting to fire safety doors as laid down in DIN 18 250. There is a choice of forend designs to ensure optimum adaptability to the door leaf and to the hardware used, specifically stainless steel and lacquered steel in silver, hammer-gilding or white.



Design features

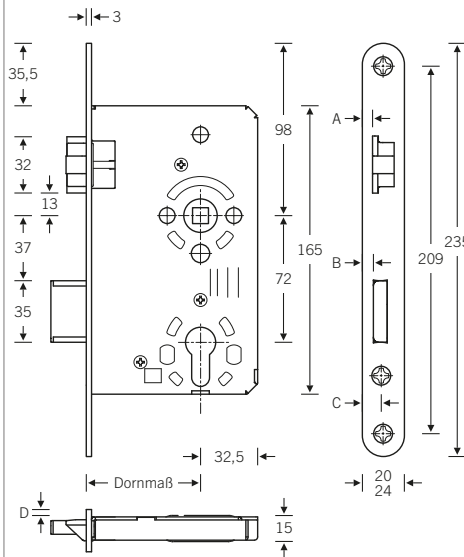
1. Latchbolt as galvanised steel moulding with thermally bonded guide elements in polyamide
2. Deadbolt as galvanised steel moulding with thermally bonded guide elements in polyamide
3. Series ES 19: self-tightening follower in galvanised steel with polyamide bushing sleeves
Series ES 24: self-tightening follower, follower plate and bushing sleeve in galvanised steel
4. Galvanised steel follower
5. Combined spring for latchbolt and detainer
6. Fatigue-resistant bolt spring for horizontal alignment of handle
7. Lifter assembly
8. Detainer
9. Corrosion control class 4 under DIN EN 1670 (240hr salt spray fog testing)
10. Cylinder screw bearing
11. Series FH 19 and FH 24 fire-resistant to DIN 18 250, square follower hole 9 mm
12. Completely enclosed galvanised lock case

Product line FH 19

Mortice lock fire-retardant
for fire doors
according to DIN 18 250 Class 3



Classification code according to EN 12 209:										
3	M	5	1	0	G	3	H	C	2	0



	Dimens. A	Dimens. B	Dimens. C	Dimens. D
18 mm	3,0	3,5	8,0	0,5
20 mm	3,4	3,9	8,5	1,0
24 mm	5,8	6,3	10,8	3,4

Mortice lock fire-retardant	FH
Product line 19	19
PZW double-turn with key operated	PZW
flat rounded:	FR
forend plate width:	
– 20 / 24 mm	20
backsets:	
– 55 / 65 mm	55
centres:	
– PZ 72 mm	72
square follower size:	
– 9 mm □	09
handing details:	
– RH	RS
– LH	LS
forend design:	
– Steel silver metallic	silb

Equipment

- Folded-type follower in galvanised steel
- latch and deadbolt in galvanised steel, with thermally bonded guide elements in polyamide for the purpose of damping sound from the lock and latchbolt

Options (please note delivery times)

· Flat forend with straight corners	FK
· backset 60 mm*	60
· forend plate width 18 mm*	18
· forend variant:	
Hammer-gilded lacquered steel	gold
white lacquered steel	white
stainless steel	EST
· galvanized steel	VZ

*These variants are not covered by DIN 18 250 and must not be accorded the “Ü” quality kitemark.

Example for article identification:

FH 19 PZW FR 20 | 55 72 08 RS silb

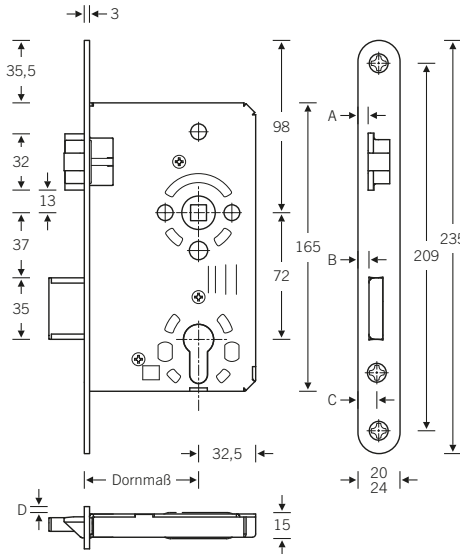


Product line FH 24

Mortice lock fire-retardant
for fire doors
according to DIN 18 250 Class 4



Classification code according to EN 12 209:										
3	S	5	1	0	G	4	H	C	2	0



	Dimens. A	Dimens. B	Dimens. C	Dimens. D
18 mm	3,0	3,5	8,0	0,5
20 mm	3,4	3,9	8,5	1,0
24 mm	5,8	6,3	10,8	3,4

Mortice lock fire-retardant	FH
Product line 19	24
PZW double-turn with key operated	PZW
flat rounded:	FR
forend plate width:	
– 20 / 24 mm	20
backsets:	
– 55 / 65 mm	55
centres:	
– PZ 72 mm	72
square follower size:	
– 9 mm □	09
handing details:	
– RH	RS
– LH	LS
forend design	
– stainless steel	EST

Equipment

- Self-tightening follower in steel with galvanised-steel follower hole bush
- Folded-type follower in galvanised steel
- latch and deadbolt in galvanised steel, with thermally bonded guide elements in polyamide for the purpose of damping sound from the lock and latchbolt

Options (please note delivery times)

- Flat forend with straight corners FK
- backset 60 mm* 60
- forend plate width 18 mm* 18
- forend variant:
- silver lacquered steel silb
- Hammer-gilded lacquered steel gold
- white lacquered steel white
- galvanized steel VZ

*These variants are not covered by DIN 18 250 and must not be accorded the “Ü” quality kitemark.

Example for article identification:

FH 24 PZW FR 20 | 55 72 08 RS EST



Functional description of the panic locks

Panic function APE

as transformer key operated spring bolt

from inside:

The door can be locked and unlocked from inside by using the panic unit of the handle or the key. The latch bolt and dead bolt are simultaneously drawn back. The panic function is only active with the key being removed.

from outside:

A fixed knob is provided on the outside of the door.

The outside can be locked and unlocked by using the key

If the door is unlocked, the latch can be drawn back by using the key via the key operated spring bolt

Panic function APD

as passage function

from inside:

The door can be locked and unlocked from inside by using the panic unit of the handle or the key. The latch and bolt are simultaneously drawn back. The panic function is only active with the key being removed.

From outside:

A door handle is mounted at the outside of the door.

The outside can be locked and unlocked by using the key.

If the bolt is drawn back, the door is permanently passable.

Panic function APB

as switchable function

from inside:

The door can be locked and unlocked from inside by using the panic unit of the handle or the key. The bolt latch and dead bolt are simultaneously drawn back via the activation of the door handle. Afterwards, the outside handle is in the idle state!

The panic function is only active with the key being removed.

from outside:

A door handle is mounted on the outside of the door.

The outside can be locked and unlocked by using the key.

The door can be permanently passed only after operating the key.

Thus, the door can be opened via the door handle.

Panic function APK

Combination of panic + automatic locking

Closing:

once the lock is engaged into the strike-plate, the door is automatically locked; the bolt is single-turn 20 mm not engaged.

Opening:

From outside only via the key. From inside via the key or the door handle (with the key being removed).

A lever handle / knob must be used as door furniture.

outside:

fixed knob

inside:

door handle

Attention! Cylinders + turns are not to be used for locks with panic function! The key must never be left in the cylinders with panic function.

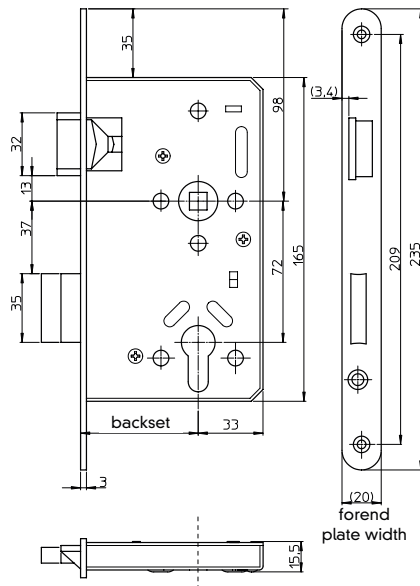
Product line 20 APE

Mortice lock

according to DIN 18250 and DIN EN 179
Class 3
for fire doors
panic as transformer key operated spring
bolt function E



Classification code according to EN 12 209										
3	S	5	1	0	C	3	B	C	2	0



Mortice lock fire-resistant	FH
Product line 20	20
PZ double-turn with key operated spring bolt panic function E	APE
flat rounded forend plate	FR
forend plate width - 20 / 24 mm	24
backset sizes - 55 / 65 mm	65
centres PZ 72 mm	72
square follower size 9 mm	09
handing - right hand - left hand	RS LS
forend design - steel galvanized	vz

Equipment:

- follower malleable iron galvanized
- latch steel with malleable iron head nickel-plated
- bolt steel nickel-plated
- lock case all-around closed, galvanized
- springs made of stainless steel

Options:

- flat forend plate edged **FK**
- forend plate material non-corroding stainless steel **EST**
- backset 80 mm **80**

Example for article identification

FH 20 APE FR 24 / 65 72 09 RS vz

test and quality surveillance by the
Material Testing Department of North
Rhine-Westphalia in Dortmund / Germany



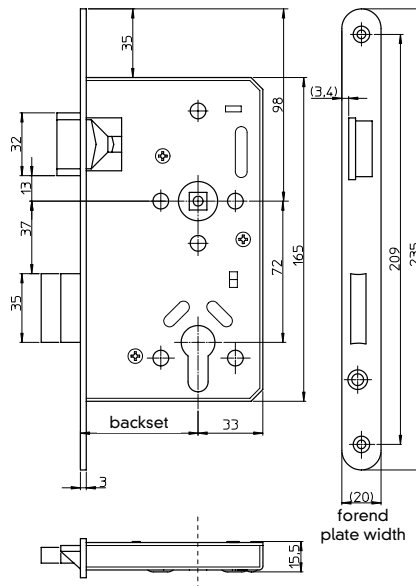
Product line 20 APD

Mortice lock

according to DIN 18250 and DIN EN 179
Class 3
for fire doors
panic as passage function D



Classification code according to EN 12 209										
3	S	5	1	0	C	3	B	C	2	0



Mortice lock fire-resistant	FH
Product line 20	20
PZ double turn without change panic function D	APD
flat rounded forend plate	FR
forend plate width - 20 / 24 mm	24
backset sizes - 55 / 65 mm	65
centres PZ 72 mm	72
square follower size (split follower) 9 mm	09
handing - right hand - left hand	RS LS
forend plate design - steel galvanized	VZ

Equipment:

- follower high-quality precision cast (split)
- latch steel with malleable iron head nickel-plated
- bolt steel nickel-plated
- lock case all-around closed, galvanized
- springs made of stainless steel

Options:

- flat forend plate edged FK
- forend plate material non-corroding stainless steel EST
- backset 80 mm 80

Example for article identification

FH 20 APD FR 24 / 65 72 09 LS vz

test and quality surveillance by the
Material Testing Department of North
Rhine-Westphalia in Dortmund / Germany



Product line 20 APK square follower size 9 mm

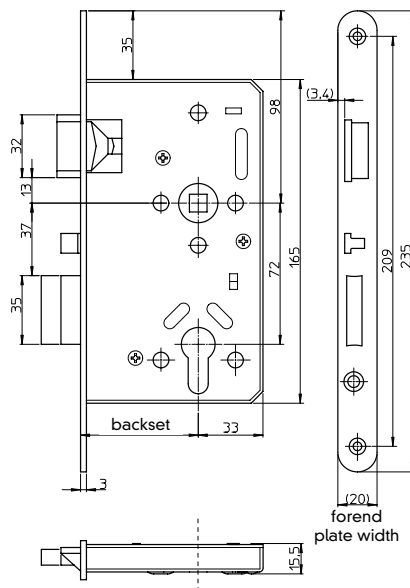
Mortice lock

according to DIN 18250 and DIN EN 179
Class 3
for fire doors
in combination
panic and automatic locking



Classification code according to EN 12 209

3	S	5	1	0	C	3	B	B	2	0
---	---	---	---	---	---	---	---	---	---	---



Mortice lock fire-resistant	FH
Product line 20	20
PZ single turn with key operated spring bolt combination panic + automatic locking	APK
flat rounded forend plate	FR
forend plate width - 20 / 24 mm	24
backset sizes - 55 / 60 / 65 mm	65
centres PZ 72 mm	72
square follower size 9 mm	09
handing - right hand - left hand	RS LS
forend plate design - steel galvanized	vz

Equipment:

- follower steel
- latch steel with malleable iron head
nickel-plated
- bolt steel nickel-plated
- lock case all-around closed, galvanized

Functions:

- delayed automatic locking
- noise reduction for automatic locking
- if the bolt is drawn back it
is earlier drawn back than the latch

Options:

- flat forend plate edged **FK**
- forend plate material
non-corroding stainless steel **EST**
- backset 80 mm **80**

Example for article identification

FH 20 APK FR 24 / 65 72 09 RS vz

test and quality surveillance by the
Material Testing Department of North
Rhine-Westphalia in Dortmund / Germany



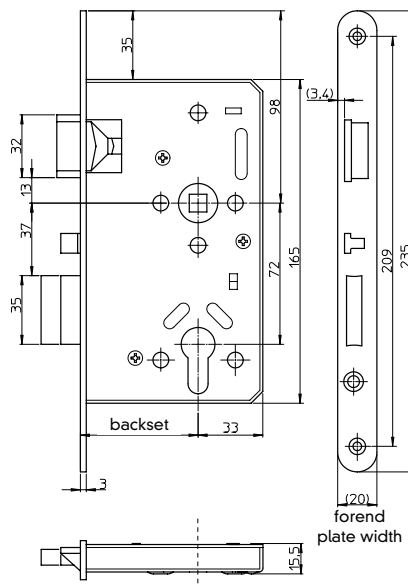
Product line 21 APK square follower size 8 mm

Mortice lock

according to DIN 18 251-1
Class 3
in combination
panic and automatic locking



Classification code according to EN 12 209										
3	S	5	1	0	C	3	B	B	2	0



Mortice lock	ES
Product line 21	21
PZ single turn with key operated spring bolt combination panic + automatic locking APK	APK
flat rounded forend plate	FR
forend plate width - 20 / 24 mm	24
backset sizes - 55 / 60 / 65 mm	65
centres PZ 72 mm	72
square follower size 8 mm	08
handing - right hand - left hand	RS LS
forend plate design - steel galvanized	vz

Equipment:

- follower steel
- latch steel with malleable iron head
nickel-plated
- bolt steel nickel-plated
- lock case all-around closed, galvanized

Functions:

- delayed automatic locking
- noise reduction for automatic locking
- if the bolt is drawn back it
is earlier drawn back than the latch

Options:

- flat forend plate edged **FK**
- forend plate material
non-corroding stainless steel **EST**
- backset 80 mm **80**

Example for article identification

ES 21 APK FR 24 / 55 72 09 LS vz

Mortice locks for internal doors

3

SSF guarantees that the mortice locks for inner doors meet the requirements of DIN 18251-1.

- Class 1: Locks for light internal doors
- Class 2: Locks for medium internal doors
- Class 3: Locks for flat entry doors and light duty doors

Product line 10	32
Product line 22	33
Product line 22 FG	34
Product line 22 PZ	35
Product line 12	36

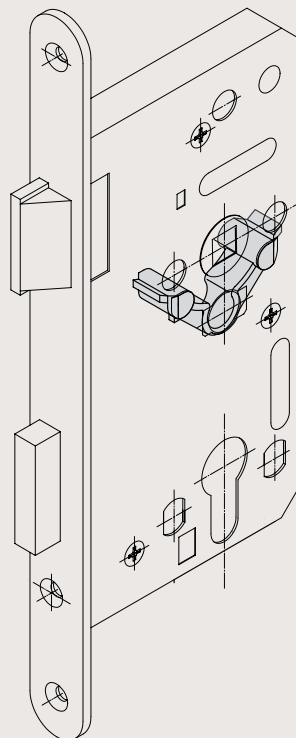
The lock classifications simultaneously include an increased quality.

The classification codes according to the European standard EN 12 209 are assigned to the corresponding lock models on the individual catalogue pages. See page 92 for the explanation of the classification code.

Internal doors are subject to a long-term and permanent load. The percentage of the lock in the total costs of a door / frame is rather subordinated. SSF recommends high quality.

Information about backset, locking types, variants, materials and options according to the description of the individual lock product lines.

Lock cases are all-around closed and protected against corrosion by a zinc coating. To avoid breakage in the lock follower area during the installation of the lock and furniture the SSF locks are equipped with a legally protected lock follower support that additionally functions as a chip protection unit.



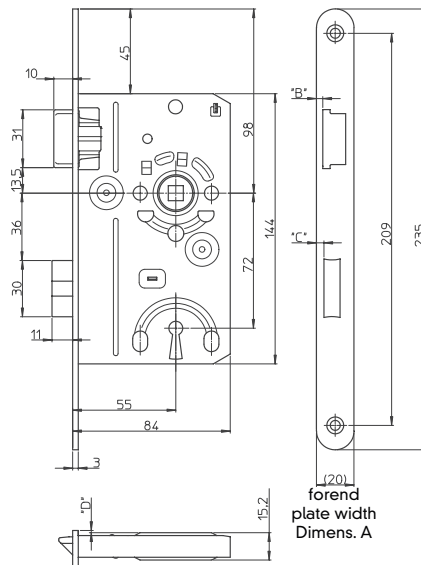
Product line 10

Mortice lock

according to DIN 18251-1
 Class 1
 for light internal doors



Classification code according to EN 12 209										
1	H	4	0	0	B	1	B	D	2	0



Dimens. A	Dimens. B	Dimens. B	Dimens. D
18	3.1	3.6	1
20	3.4	4	1
24	6	6.5	3.9

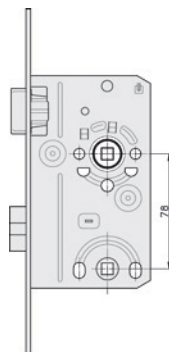
- Mortice lock **ES**
- Product line 10 **10**
- warded lock with one key, keyhole, bright plated (mounted at the front plate) **BB**
- WC type **WC**
- flat rounded forend plate **FR**
- forend plate width 20 mm **20**
- backset size 55 mm **55**
- centres
 - BB = 72 mm **72**
 - WC = 78 mm **78**
- square follower size 8 mm **08**
- handing
 - right hand **RS**
 - left hand **LS**
- forend plate design
 - Steel silver metallic **silb**

Equipment:

- follower, latch and bolt made of polyamide
- lock case all-around closed, galvanized

Options:

- flat forend plate edged **FK**
 - forend plate width 18 / 24 mm **18 / 24**
 - forend plate colours
 - Hammer tone gold **gold**
 - White **white**
 - forend plate material
 - Stainless steel fine satin **EST**
 - Brass polished **mosp**
- (Consider delivery times)



Article identification

- ES 10 BB FR 20 / 55 72 08 LS silb
- ES 10 BB FR 20 / 55 72 08 RS silb
- ES 10 WC FR 20 / 55 78 08 LS silb
- ES 10 WC FR 20 / 55 78 08 RS silb

(ex store deliverable)

Fig.: WC type

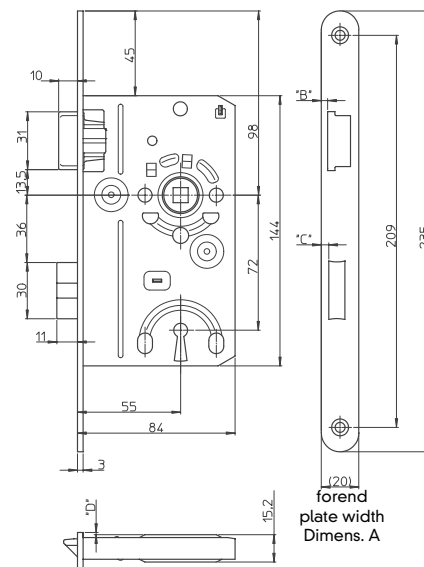
Product line 22

Mortice lock

according to DIN 18251-1
Class 2
for internal doors



Classification code according to EN 12 209										
2	M	4	0	0	B	1	B	D	2	0



Dimens. A	Dimens. B	Dimens. B	Dimens. D
18	3.1	3.6	1
20	3.4	4	1
24	6	6.5	3.9

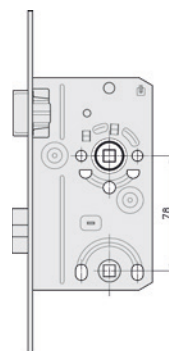
Mortice lock	ES
Product line 22	22
- warded lock with one key, bright plated (mounted at the front plate)	BB
- WC type	WC
flat rounded forend plate	FR
forend plate width 20 mm	20
backset size 55 mm	55
centres	
- BB = 72 mm	72
- WC = 78 mm	78
square follower size 8 mm	08
handing	
- right hand	RS
- left hand	LS
forend plate design - Steel silver metallic	silb

Equipment:

- follower made of polyamide
- latch bolt and deadbolt cast nickel-plated
- lock case all-around closed, galvanized

Options:

- flat forend plate edged **FK**
 - forend plate width 18 / 24 mm **18 / 24**
 - forend plate colours
 - Hammer tone gold **gold**
 - White **white**
 - forend plate material
 - Stainless steel fine satin **EST**
 - Brass polished **mspo**
 - Latch with noise reduction **FG**
- (Consider delivery times)



Article identification

ES 22 BB FR 20 / 55 72 08 LS silb
ES 22 BB FR 20 / 55 72 08 RS silb

ES 22 WC FR 20 / 55 78 08 LS silb
ES 22 WC FR 20 / 55 78 08 RS silb

(ex store deliverable)

Fig.: WC type

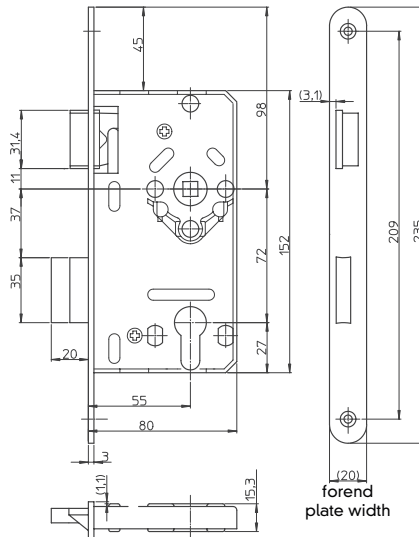
Product line 22 PZ

Mortice lock

according to DIN 18251-1
 Class 2
 for internal doors



Classification code according to EN 12 209										
2	L	4	0	0	B	2	B	C	2	0



Mortice lock	ES
Product line 22	22
PZ double-turn with key operated spring bolt	PZW
flat rounded forend plate	FR
forend plate width 20 mm	20
backset size 55 mm	55
centres - PZ 72 mm	72
square follower size 8 mm	08
handing - right hand - left hand	RS LS
forend plate design - Steel silver metallic	silb

Equipment:

- steel follower with polyamide bearing shells
- latch bolt cast nickel-plated
- lock case all-around closed, galvanized

Options:

- flat forend plate edged **FK**
 - forend plate width 18 / 24 mm **18 / 24**
 - forend plate colours
 - Hammer tone gold **gold**
 - White **white**
 - forend plate material
 - Stainless steel fine satin **EST**
 - Brass polished **mspo**
 - Latch with noise reduction **FG**
- (Consider delivery times)

Article identification

ES 22 PZW FR 20 / 55 72 08 LS silb
 ES 22 PZW FR 20 / 55 72 08 RS silb

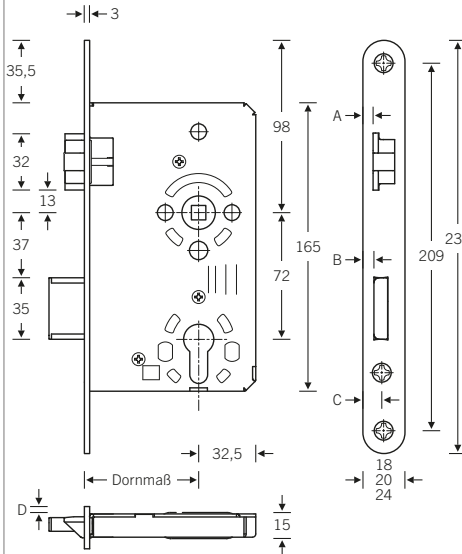
(ex store deliverable)

Product line ES 19

Mortice lock
for internal doors
according to DIN 18 251-1 Class 3



Classification code according to EN 12 209:										
3	M	5	0	0	G	3	H	C	2	0



	Dimens. A	Dimens. B	Dimens. C	Dimens. D
18 mm	3,0	3,5	8,0	0,5
20 mm	3,4	3,9	8,5	1,0
24 mm	5,8	6,3	10,8	3,4

Mortice lock	ES
Product line 19	19
PZW double-turn with key operated WC variant	PZW WC
flat rounded:	FR
forend plate width:	
– 20 / 24 mm	20
backsets:	
– 55 / 60 / 65 mm	55
centres:	
– PZ 72 mm	72
– WC 78 mm	78
square follower size:	
– 8 mm □	08
handing details:	
– RH	RS
– LH	LS
forend design:	
– Steel silver metallic	silb

Equipment

- Self-tightening follower in steel with galvanised-steel follower hole bush
- Folded-type follower in galvanised steel
- latch and deadbolt in galvanised steel, with thermally bonded guide elements in polyamide for the purpose of damping sound from the lock and latchbolt

Options (please note delivery times)

- Flat forend with straight corners FK
- forend plate width 18 mm 18
- forend variant:
 - Hammer-gilded lacquered steel gold
 - white lacquered steel white
 - stainless steel EST
- latch lock FS
- deadbolt lock RS
- warded-lock variant + 1 key BB

Example for article identification:

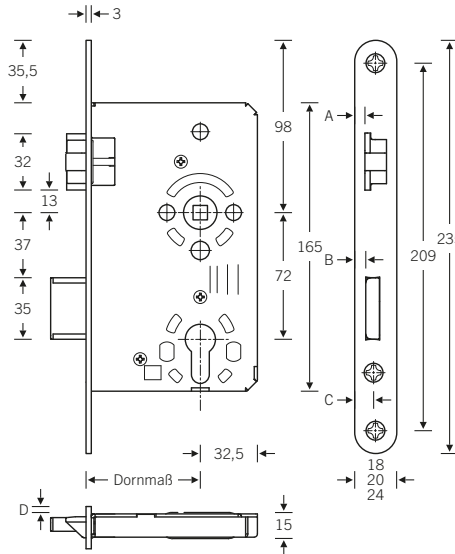
ES 19 PZW FR 20 | 55 72 08 RS silb

Product line ES 24

Mortice lock
 for internal doors
 according to DIN 18 251-1 Class 4



Classification code according to EN 12 209:										
3	S	5	1	0	G	4	H	C	2	0



	Dimens. A	Dimens. B	Dimens. C	Dimens. D
18 mm	3,0	3,5	8,0	0,5
20 mm	3,4	3,9	8,5	1,0
24 mm	5,8	6,3	10,8	3,4

Mortice lock ES
 Product line 24 24

PZW double-turn with key operated PZW
 WC variant WC

flat rounded: FR

forend plate width:
 – 20 / 24 mm 20

backsets:
 – 55 / 60 / 65 mm 55

centres:
 – PZ 72 mm 72
 – WC 78 mm 78

square follower size:
 – 8 mm □ 08

handing details:
 – RH RS
 – LH LS

forend design stainless steel EST

Equipment

- Self-tightening follower in steel with galvanised-steel follower hole bush
- Folded-type follower in galvanised steel
- latch and deadbolt in galvanised steel, with thermally bonded guide elements in polyamide for the purpose of damping sound from the lock and latchbolt

Options (please note delivery times)

- Flat forend with straight corners FK
- forend plate width 18 mm 18
- forend variant:
- silver lacquered steel silb
- Hammer-gilded lacquered steel gold
- white lacquered steel white
- deadbolt lock RS
- warded-lock variant + 1 key BB

Example for article identification:

ES 24 PZW FR 20 | 55 72 08 RS EST

Locks for special applications

4

Front door	Product line 15	38
Front door according to TGL standard *	Product line 16	39
Front door according to TGL standard *	Product line 23	40
Burglar proof doors	Product line 27	41
Moisture proof doors	Product line 56	42
Sliding doors	Product line 71	43
Sliding doors	Product line 72	44
Sliding doors	Product line 72 GK / 76	45

* TGL standard corresponds to the earlier GDR standard for technical quality and delivery conditions

Product line 16

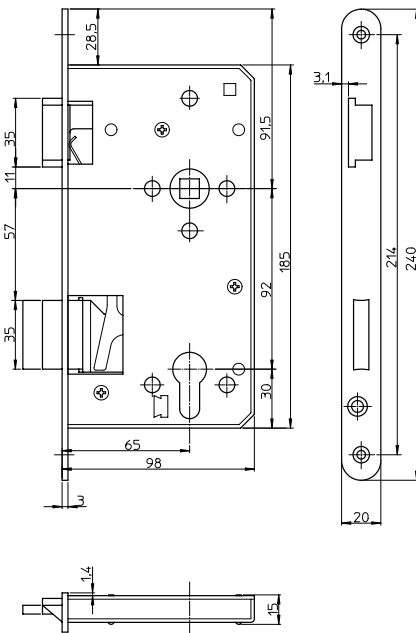
Mortice lock

for front entrance doors

according to **TGL** standard *
elevated bolt



Classification code according to EN 12 209										
3	S	5	0	0	C	3	B	C	2	0



Front door lock	HT
Product line 16	16
PZ double-turn with key operated spring bolt	PZW
flat rounded forend plate	FR
forend plate width 20 mm	20
backset size 65 mm	65
centres 92 mm	92
square follower size 10 mm	10
handing - right hand - left hand	RS LS
forend plate design - Steel silver metallic	silb

Equipment:

- follower cast galvanized
- latch bolt and dead bolt steel with cast head nickel-plated
- lock case all-around closed galvanized

Options:

- keyhole mortice with one key

Example for article identification

HT 16 PZW FR 20 / 65 92 10 RS silb

* TGL standard corresponds to the earlier GDR standard for technical quality and delivery conditions

Product line 23

Mortice lock

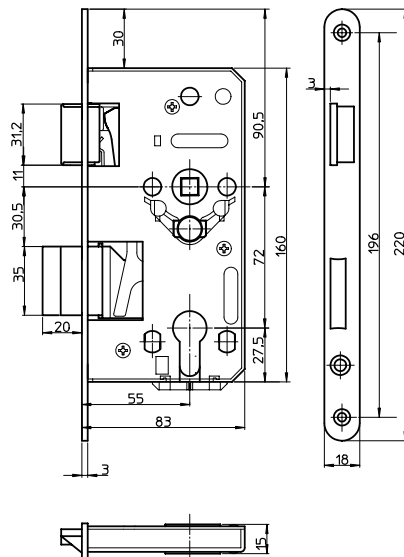
for flat entrance doors

according to **TGL** standard *
 elevated bolt



Classification code according to EN 12 209

3	M	5	0	0	C	3	B	C	2	0
---	---	---	---	---	---	---	---	---	---	---



Mortice lock	ES
Product line 23	23
PZ double-turn with key operated spring bolt	PZW
flat rounded forend plate	FR
forend plate width 18 mm	18
backset size 55 mm	55
square follower size 8 mm	08
handing - right hand - left hand	RS LS
forend plate design - Steel silver metallic	silb

Equipment:

- steel follower with polyamide bearing shells
- latch cast nickel-plated
- dead bolt steel with cast head nickel-plated
- lock case all-around closed, galvanized

Options:

- keyhole mortice with one key

Example for article identification

ES 23 PZW FR 18 / 55 72 08 RS silb

* TGL standard corresponds to the earlier GDR standard for technical quality and delivery conditions

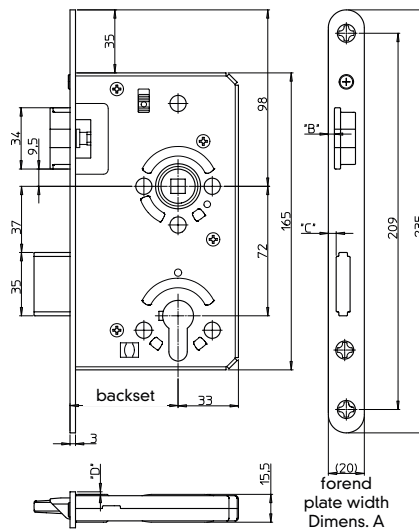
Product line 56

Mortice lock

according to DIN 18251-1
Class 3
for moisture proof doors



Classification code according to EN 12 209										
3	M	5	0	0	G	3	B	C	2	0



Dimens. A	Dimens. B	Dimens. C	Dimens. D
20	3.4	4.0	1.4
24	6.0	6.6	4.0

Mortice lock for moisture proof doors **ES**

Product line 56 **56**

- PZ double-turn with key operated spring bolt **PZW**

- WC type **WC**

flat rounded forend plate **FR**

forend plate width - 20 / 24 mm **20**

backset sizes - 55 / 60 / 65 mm **55**

centres - PZ 72 mm **72**
- WC 78 mm **78**

square follower size 8 mm **08**

handing - right hand **RS**
- left hand **LS**

forend plate design - Stainless steel fine satin (Material no. 1.4301) **EST**

Equipment:

- clamping follower made of steel galvanized
- follower support made of polyamide
- latch precision cast nickel-plated
- bolt made of steel, bolt head cast part nickel-plated
- lock case all-around closed, made of brass
- sleeved bolt through fixing points
- relubrication system
- installation parts thick film passivated

Options:

- edged forend
 - Latch bolt with noise reduction
 - backset 70 / 80 / 100 mm
 - square follower 9 mm
 - square follower 10 mm
- (Consider delivery times)

FK
FG
70
09
10

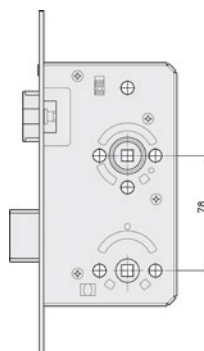


Fig.: WC type

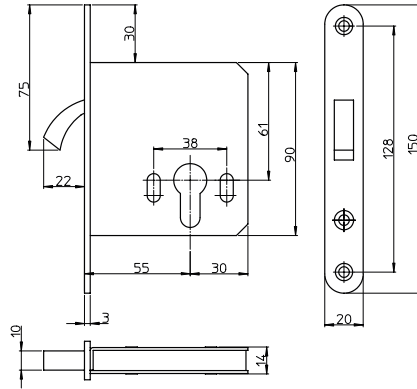
Example for article identification

ES 56 PZW FR 20 / 55 72 08 LS EST FR
ES 56 WC FR 20 / 55 72 08 LS EST FR

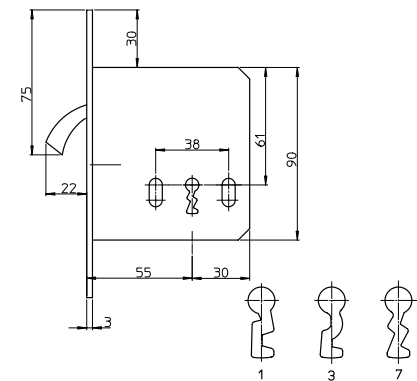
The special demands placed on the lock for moisture proof doors have been tested according to DIN EN 1670 Class 4 240 h salt spray fog testing with a positive result.

Product line 71

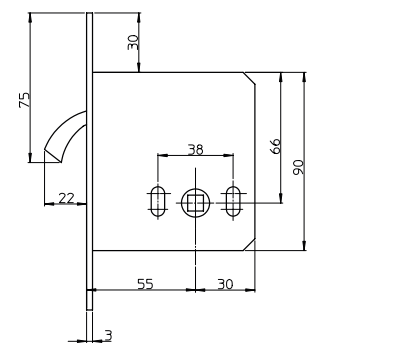
Mortice lock for sliding doors with hook bolt



Classification code according to EN 12 209										
3	C	-	0	0	A	3	C	A	2	0

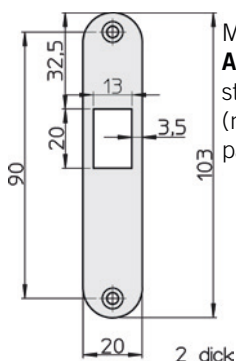


Classification code according to EN 12 209										
3	C	-	0	0	A	3	C	D	2	0



Classification code according to EN 12 209										
3	C	-	0	0	A	3	C	G	2	0

- Sliding door lock ST
- Product line 71 71
- PZ PZ
- keyhole with 1 folding ring key (cuts 1 / 3 / 7) BBS
- WC type WC
- flat rounded forend plate FR
- forend plate width 20 mm 20
- backset size 55 mm 55
- forend plate design - stainless steel non-corroding, precision ground (hook bolt nickel-plated) EST



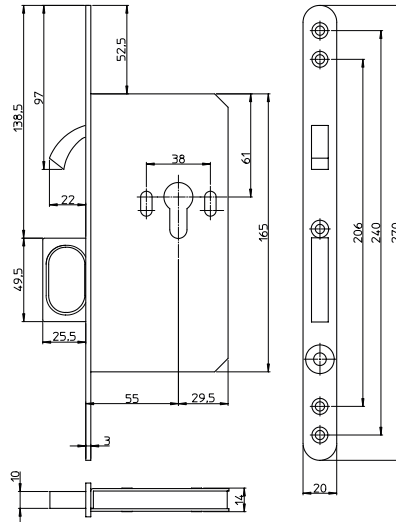
Mortice plate
Art. no. 4240
stainless steel non-corroding
(mortice plate is part of the lock)

Article identification

- ST 71 PZ FR 20 / 55 EST
- ST 71 BBS FR 20 / 55 EST
- ST 71 WC FR 20 / 55 08 EST

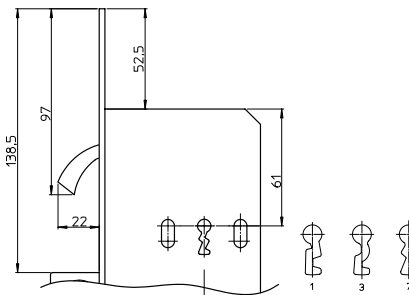
Product line 72

Mortice sliding door lock with hook bolt and front handle



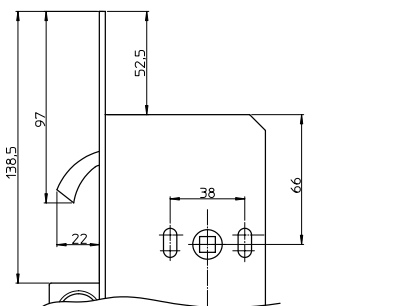
Classification code according to EN 12 209

3	C	-	0	0	A	3	C	A	2	0
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Classification code according to EN 12 209

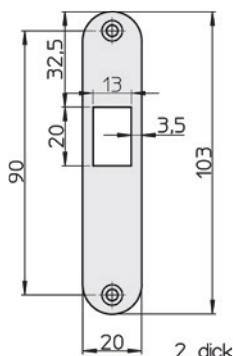
3	C	-	0	0	A	3	C	D	2	0
---	---	---	---	---	---	---	---	---	---	---



Classification code according to EN 12 209

3	C	-	0	0	A	3	C	G	2	0
---	---	---	---	---	---	---	---	---	---	---

- Sliding door lock ST
- Product line 72 72
- PZ PZ
- keyhole with 1 folding ring key (cut 1 / 3 / 7) BBS
- WC type WC
- flat rounded forend plate FR
- forend plate width 20 mm 20
- backset size 55 mm 55
- forend plate design - stainless steel non-corroding, precision ground (front handle, hoob bolt and knob nickel-plated) EST



Mortice plate
art. no. 4240
stainless steel non-corroding
(mortice plate is part of the lock)

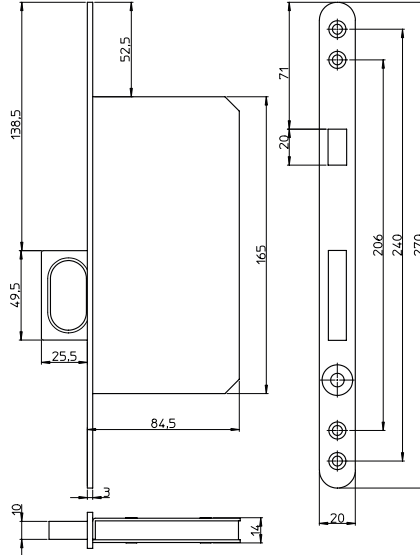
Article identification

ST 72 PZ FR 20 / 55 EST
ST 72 BBS FR 20 / 55 EST
ST 72 WC FR 20 / 55 08 EST

Product line 72 GK / 76

Strike case

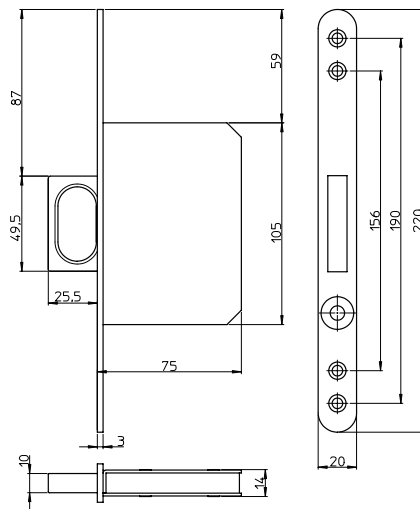
for sliding door lock, product line 72 GK



Sliding door lock	ST
Product line 72	72
Strike case	GK
flat rounded forend plate	FR
forend plate width 20 mm	20
forend plate design - stainless steel non-corroding, precision ground	EST

Sliding door front handle

for sliding door lock, product line 76



Sliding door lock	ST
Product line 76	76
front handle pull	SG
flat rounded forend plate	FR
forend plate width 20 mm	20
forend plate design - stainless steel non-corroding, precision ground	EST

Article identification

strike case
ST 72 GK FR 20 EST
front handle
ST 76 SG FR 20 EST

Mortice locks for hollow profiled section doors

5

SSF guarantees that the mortice locks for hollow profiled section doors meet the guidelines of DIN 18251-2, Class 3.

SSF locks for hollow profile section doors have been tested and certified according to the European standard EN 12 209 by the MPA NRW in Dortmund / Germany. Test certificate no. 120002640.Z3, June 2008.

Moreover, the locks of the product line 02 with the panic functions APE /APB / APD have been tested and certified according to the European standard for panic locks EN 1125 and for emergency exit locks EN 179 by the PIV Test Institute Locks & Fittings in Velbert.

EC Certificate of Conformity
1309 - CPD - 0099 (EN 1125)

EC Certificate of Conformity
1309 - CPD - 0098 (EN 179)

(Attention: The individual furnitures assessed for the certification are always to be considered for panic and emergency exit locks.)

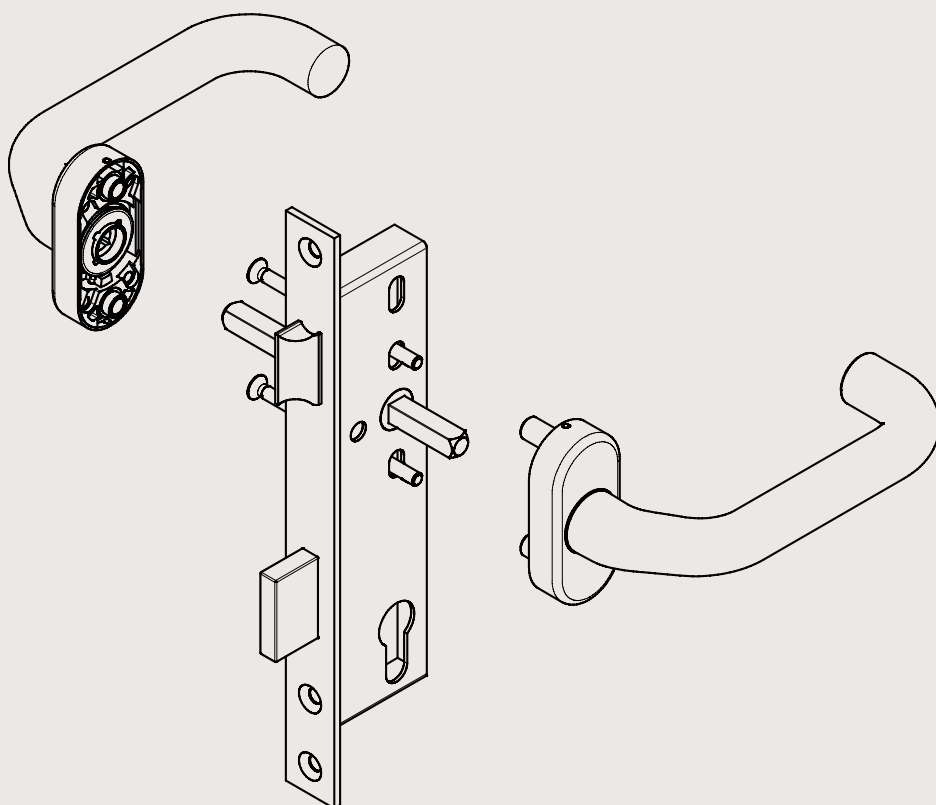
The classification codes are assigned to the corresponding lock models on the individual catalogue pages. See page 92 for the explanation of the classification code.

SSF locks for hollow profile section doors are equipped with a clamping follower and the latch bolt is reversible for right and left hand application. The galvanized lock case closed at the top and bottom is provided with sleeved bolt through fixing points.

A special feature of all SSF locks for hollow profile section doors is the additional mounting opening for the stable, bold-through furniture installation.

Please inform about the different functional options of the panic bolt locks, too (see page 24 for notes).

Product line 01	48
Product line 02	49
Product line 02 APE	50
Product line 02 APB	51
Product line 02 APD	52
Product line 02 RoF	53
Product line 02 FS	54
Product line 02 FSk (short design)	55
Product line 02 RS	56
Product line 02 RSk (short design)	57
Product line 02 SHR	58



Product line 01

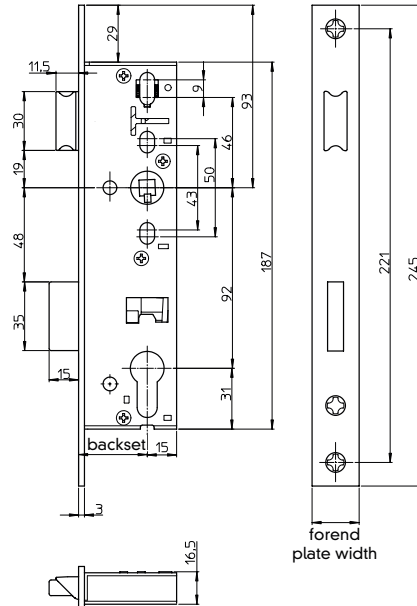
Mortice lock

according to DIN 18251-2
Class 3
for hollow profile doors

Dead bolt protection 15 mm



Classification code according to EN 12 209										
3	M	5	0	0	C	3	B	A	2	0



Lock for hollow profile section doors	RR
Product line 01	01
PZ single turn with key operated spring bolt	PZW
flat square cornered forend plate	FK
forend plate width - 16 / 24 mm	24
backset sizes - 35 / 40 / 45 mm	35
centres PZ 92 mm	92
square follower size 8 mm	08
handing - reversible	
forend plate design - steel satin chromated	MC

Equipment:

- lock cased closed at the top and bottom
- latch bolt and deadbolt nickel-plated
- through furniture bore hole above the lock follower
- clamping follower
- sleeved bolt through fixing points

Options:

- forend plate material stainless steel non-corroding, precision ground
- forend plate width 20 / 22 mm
- backset 22 / 25 / 30 / 50 mm
- U front plate 24 x 6 mm incl. end caps for backset 29 / 34 / 39 / 44 mm
- latch bolt with noise reduction (from diameter 25 mm)
- latch bolt and dead bolt 5 mm projecting (up to backset 45 mm)
- square follower size 10 mm
- customized forend plate inscription

Example for article identification

RR 01 PZW FK 24 / 35 92 08 MC

Product line 02

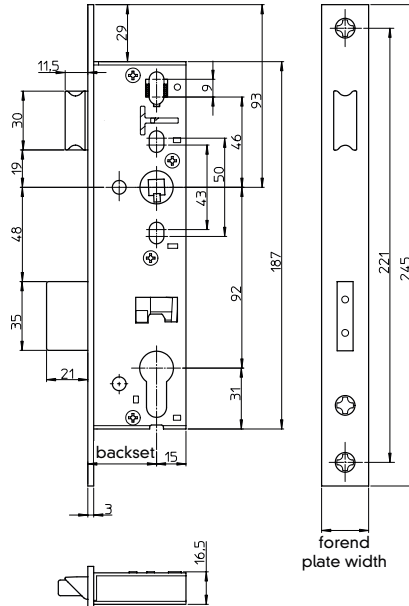
Mortice lock

Mortice lock
according to DIN 18251-2
Class 3
for hollow profile doors

Dead bolt protection 21 mm



Classification code according to EN 12 209										
3	M	5	0	0	C	3	B	A	2	0



Lock for hollow profile section doors	RR
Product line 02	02
PZ single turn with key operated spring bolt	PZW
flat square cornered forend plate	FK
forend plate width - 16 / 24 mm	24
backset sizes - 35 / 40 / 45 mm	35
centres PZ 92 mm	92
square follower size 8 mm	08
handing - reversible	
forend plate design - steel satin chromated	MC

Equipment:

- lock cased closed at the top and bottom
- latch and bolt nickel-plated
- through furniture bore hole above the lock follower
- clamping follower
- sleeved bolt through fixing points

Options:

- forend plate material stainless steel non-corroding, precision ground
- forend plate width 20 / 22 mm
- backset 22 / 25 / 30 / 50 mm (diameter 22 without change)
- U forend plate 24 x 6 mm incl. final caps for backset 29 / 34 / 39 / 44 mm
- latch with noise reduction (from diameter 25 mm)
- latch and bolt 5 mm projecting (up to backset 45 mm)
- square follower 10 mm
- customized forend plate inscription

Example for article identification

RR 02 PZW FK 24 / 35 92 08 MC

Product line 02 APE

Panic mortice lock

for single swing hollow profile doors

transformer change function E
 type APE (passable from the outside by
 change function)

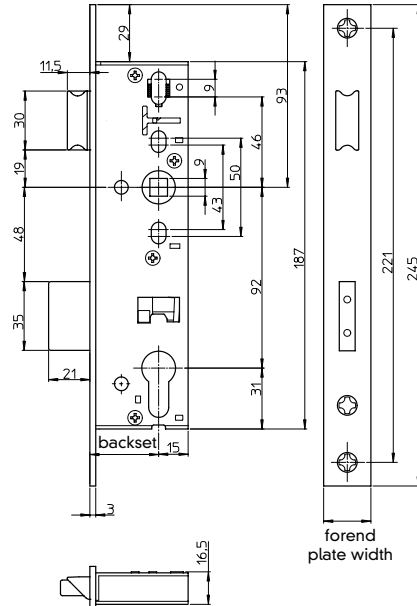
Dead bolt protection 21 mm



Classification code according to EN 12 209										
3	M	5	0	0	C	3	B	A	2	0

Classification code according to EN 179									
3	7	6	0	1	4	4	1	A	B

Classification code according to EN 1125									
3	7	6	0	1	4	2	1	A	B



Lock for hollow profile section doors	RR
Product line 02 (APE)	02
PZ single turn with key operated spring bolt panic function E	APE
flat square cornered forend plate	FK
forend plate width - 16 / 24 mm	24
backset sizes - 35 / 40 / 45 mm	35
centres PZ 92 mm	92
square follower size 9 mm	09
handing - reversible	
forend plate design - stainless steel non-corroding, precision ground	EST

Equipment:

- lock cased closed at the top and bottom
- latch and bolt nickel-plated
- through furniture bore hole above the lock follower
- sleeved bolt through fixing points

Options:

- forend plate width 20 / 22 mm
- backset 30 mm
- U forend plate 24 x 6 mm incl. end caps for backset 29 / 34 / 39 / 44 mm
- latch with noise reduction
- customized forend plate inscription

Example for article identification

RR 02 APE FK 24 / 35 92 09 EST

Product line 02 APB

Panic mortice lock

for single swing hollow profile doors

switchable function B

Type APB (alternatively from outside permanently passable or closed)

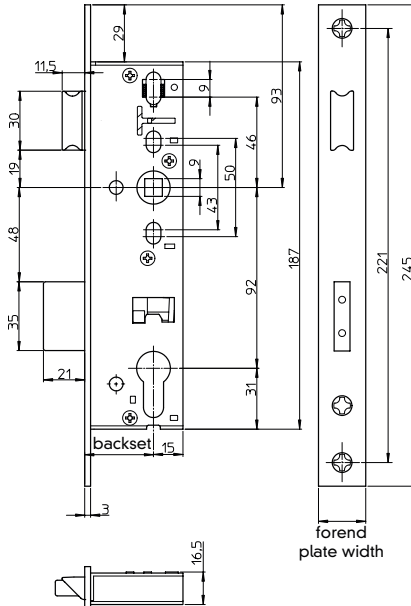
Dead bolt protection 21 mm



Classification code according to EN 12 209										
3	M	5	0	0	C	3	B	A	2	0

Classification code according to EN 179										
3	7	6	0	1	4	4	1	A	B	

Classification code according to EN 1125										
3	7	6	0	1	4	2	1	A	B	



Lock for hollow profile section doors	RR
Product line 02 (APB)	02
PZ single turn panic function APB	APB
flat square cornered forend plate	FK
forend plate width - 16 / 24 mm	24
backset sizes - 35 / 40 / 45 mm	35
centres PZ 92 mm	92
square split follower size 9 mm	09
handing - right hand - left hand	RS LS
forend plate design - stainless steel non-corroding, precision ground	EST

Equipment:

- lock cased closed at the top and bottom
- latch and bolt nickel-plated
- through furniture bore hole above the lock follower
- sleeved bolt through fixing points

Options:

- forend plate width 20 / 22 mm
- backset 30 mm
- U forend plate 24 x 6 mm incl. end caps for backset 29 / 34 / 39 / 44 mm
- latch bolt with noise reduction
- customized forend plate inscription

Example for article identification

RR 02 APB FK 24 / 35 92 09 RS EST

Product line 02 APD

Panic mortice lock

for single swing hollow profile doors

Passage function D

Type APD (after opening from inside the doors remains passable towards both handings up to locking it anew)

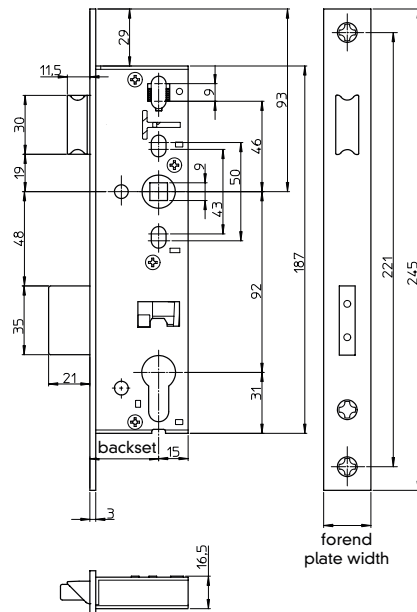
Dead bolt protection 21 mm



Classification code according to EN 12 209										
3	M	5	0	0	C	3	B	A	2	0

Classification code according to EN 179									
3	7	6	0	1	4	4	1	A	B

Classification code according to EN 1125									
3	7	6	0	1	4	2	1	A	B



Lock for hollow profile section doors	RR
Product line 02 (APD)	02
PZ single turn panic function APD	APD
flat square cornered forend plate	FK
forend plate width - 16 / 24 mm	24
backset sizes - 35 / 40 / 45 mm	35
centres PZ 92 mm	92
square split follower size 9 mm split	09
handing - right hand - left hand	RS LS
forend plate design - stainless steel non-corroding, precision ground	EST

Equipment:

- lock cased closed at the top and bottom
- latch and bolt nickel-plated
- through furniture bore hole above the lock follower
- sleeved bolt through fixing points

Options:

- forend plate width 20 / 22 mm
- backset 30 mm
- U forend plate 24 x 6 mm incl. end caps for backset 29 / 34 / 39 / 44 mm
- latch bolt with noise reduction
- customized forend plate inscription

Example for article identification

RR 02 APD FK 24 / 35 92 09 RS EST

Product line 02 RoF

Mortice lock with roller catch

according to DIN 18251-2

for double swing doors

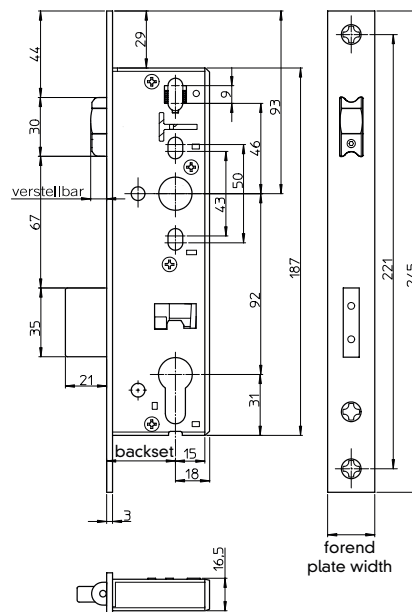
Class 3

for hollow profile section doors

Dead bolt protection 21 mm



Classification code according to EN 12 209										
3	C	5	0	0	C	3	B	A	2	0



Lock for hollow profile section doors **RR**

Product line 02 (ROF) **02**

mortice lock with roller catch **RoF**

flat square cornered forend plate **FK**

forend plate width
- 16 / 24 mm **24**

backset sizes
- 35 / 40 / 45 mm **35**

centres
PZ 92 mm **92**

forend plate design
- steel satin chromated **MC**

Equipment:

- lock cased closed at the top and bottom
- latch and bolt nickel-plated
- through furniture bore hole above the lock follower
- sleeved bolt through fixing points
- adjustable roller catch 2 - 9 mm

Options:

- forend plate material non-corroding stainless steel precision ground
- forend plate width 20 / 22 mm
- backset 30 / 50 mm
- U forend plate 24 x 6 mm incl. end caps for backset 29 / 34 / 39 / 44 mm
- customized forend plate inscription

Example for article identification

RR 02 RoF FK 24 / 35 92 MC

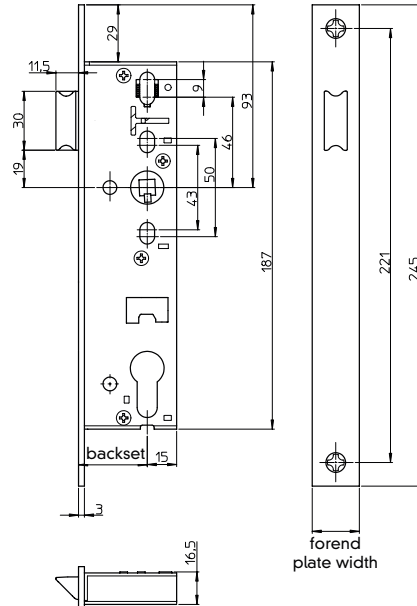
Product line 02 FS

Latch

according to DIN 18251-2
 Class 3
 for hollow profile section doors



Classification code according to EN 12 209										
3	M	5	0	0	C	-	B	0	2	0



Latch for hollow profile section doors	RR
Product line 02	02
mortice latch	FS
flat square cornered forend plate	FK
forend plate width	
- 16 / 24 mm	24
backset sizes	
- 35 / 40 / 45 mm	35
square follower size	
8 mm	08
handing	
- reversible	
forend plate design	
- steel satin chromated	MC

Equipment:

- latch cased closed at the top and bottom
- through furniture bore hole above the lock follower
- clamping follower
- sleeved bolt through fixing points

Options:

- forend material non-corroding stainless steel precision ground
- forend plate width 20 / 22 mm
- backset 25 / 30 / 50 mm
- U forend plate 24 x 6 mm incl. end caps for backset 29 / 34 / 39 / 44 mm
- square follower size 10 mm
- latch 5 mm projecting (up to diameter 45 mm)
- customized forend plate inscription

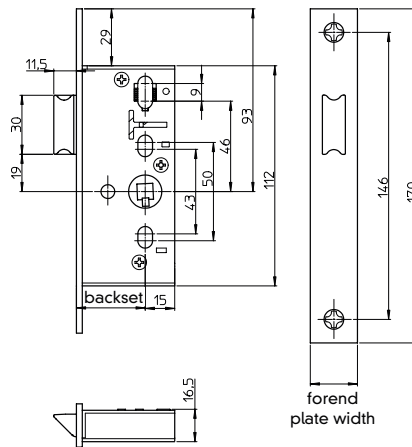
Example for article identification

RR 02 FS FK 24 / 35 08 MC

Product line 02 FSk

Latch

according to DIN 18251-2
Class 3
for hollow profile section doors



Latch for hollow profile section doors	RR
Product line 02	02
small cased mortice latch	FSk
flat square cornered forend plate	FK
forend plate width - 16 / 24 mm	24
backset sizes - 35 / 40 / 45 mm	35
square follower size 8 mm	08
handing - reversible	
forend plate design - steel satin chromated	MC

Classification code according to EN 12 209										
3	M	5	0	0	C	-	B	0	2	0

Equipment:

- latch cased closed at the top and bottom
- through furniture bore hole above the lock follower
- clamping follower
- sleeved bolt through fixing points

Options:

- forend plate material non-corroding stainless steel precision ground
- forend plate width 20 / 22 mm
- backset 25 / 30 / 50 mm
- U forend plate 24 x 6 mm incl. end caps for backset 29 / 34 / 39 / 44 mm
- square follower size 10 mm
- latch 5 mm projecting (up to diameter 45 mm)
- customized forend plate inscription

Example for article identification

RR 02 FSk FK 24 / 35 08 MC

Product line 02 RS

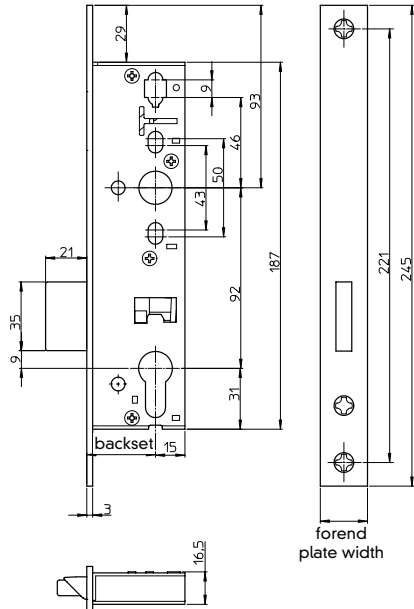
Mortice dead lock

according to DIN 18251-2
Class 3
for hollow profile section doors

Dead bolt protection 21 mm



Classification code according to EN 12 209										
3	-	5	0	0	C	3	B	A	0	0



Lock for hollow profile section doors	RR
Product line 02	02
mortice dead lock	RS
flat square cornered forend plate	FK
forend plate width	24
- 16 / 24 mm	
backset sizes	35
- 35 / 40 / 45 mm	
forend plate design	MC
- steel satin chromated	

Equipment:

- lock cased closed at the top and bottom
- bolt nickel-plated
- through furniture bore hole above the lock follower
- sleeved bolt through fixing points

Options:

- forend plate material non-corroding stainless steel precision ground
- forend plate width 20 / 22 mm
- backset 25 / 30 / 50 mm
- U forend plate 24 x 6 mm incl. end caps for backset 29 / 34 / 39 / 44 mm
- bolt 5 mm projecting (up to diameter 45 mm)
- customized forend plate inscription

Example for article identification

RR 02 RS FK 24 / 35 MC

Product line 02 RSk

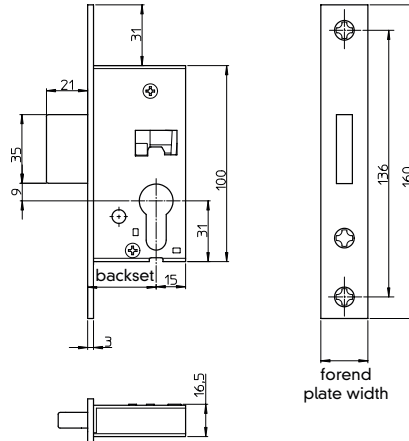
Mortice dead lock

according to DIN 18251-2

Class 3

for hollow profile section doors

Dead bolt protection 21 mm



Lock for hollow profile section doors	RR
Product line 02	02
mortice dead lock	RSk
flat square cornered forend plate	FK
forend plate width	24
- 16 / 24 mm	
backset sizes	35
- 35 / 40 / 45 mm	
forend plate design	MC
- steel satin chromated	

Classification code according to EN 12 209										
3	-	5	0	0	C	3	B	A	0	0

Equipment:

- lock cased closed at the top and bottom
- bolt nickel-plated
- through furniture bore hole above the lock follower
- sleeved bolt through fixing points

Options:

- forend plate material non-corroding stainless steel precision ground
- forend plate width 20 / 22 mm
- backset 25 / 30 / 50 mm
- U forend plate 24 x 6 mm incl. end caps for backset 29 / 34 / 39 / 44 mm
- bolt 5 mm projecting (up to diameter 45 mm)
- customized forend plate inscription

Example for article identification

RR 02 RSk FK 24 / 35 MC

Product line 02 SHR

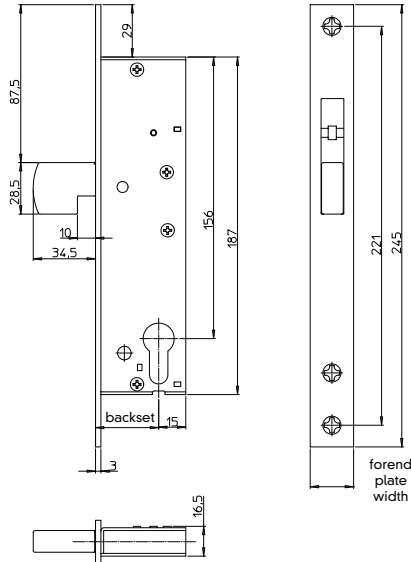
Mortice lock

barbolt dead lock
according to DIN 18251-2
Class 3
for hollow profiled section doors

Dead lock 34,5 mm



Classification code according to EN 12 209										
3	-	-	0	0	C	3	C	A	0	0



Lock for hollow profile section doors	RR
Product line 02 (SHR)	02
barbolt dead lock	SHR
flat square cornered forend plate	FK
forend plate width - 24 mm	24
backset sizes - 35 / 40 / 45 mm	35
forend plate design - steel satin chromated	MC

Equipment:

- lock cased closed at the top and bottom
- bolt nickel-plated

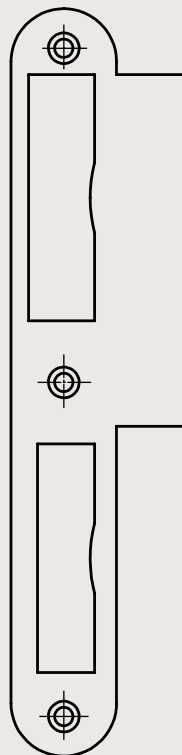
Options:

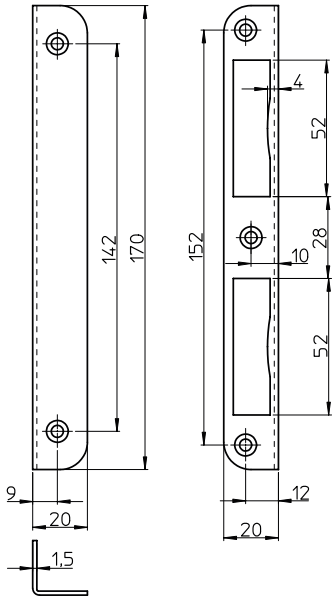
- forend plate made of non-corroding, precision ground stainless steel
- customized inscription of the forend plate

Example for article identification

RR 02 SHR FK 24 / 35 MC

Angle mortice plates for inner doors, flat entrance doors and front doors	60
Angle mortice plates for product lines 23 and 16	61
Lap mortice plate mortice plate reinforced	62
Angle mortice plates reinforced	63
Mortice plate and angle mortice plate for electromagnetic door handle	64
Mortice plates for locks of hollow profiled section doors, hollow profile swivel hook dead lock	65
U-shaped mortice plates, angle mortice plates with plastic insert	66
Angle mortice plate with plastic insert	67
Angle mortice plates for mortice locks for burglar proof doors	68
Angle mortice plates for mortice locks and for latch or dead locks	69



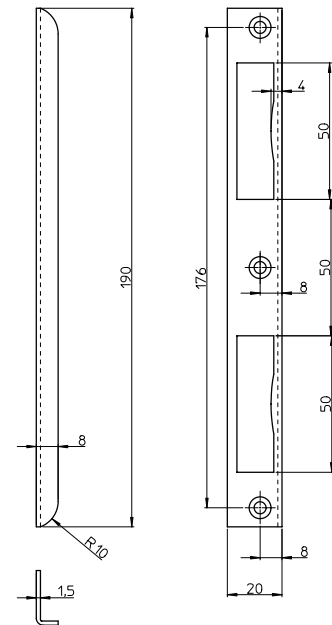


◀ **Angle mortice plate**
for all mortice locks
for internal doors and
flat entrance doors
according to DIN 18251-1

Design:
· steel 1.5 mm, silver metallic

- reversible for right and left hand
application

Art. no. 4152



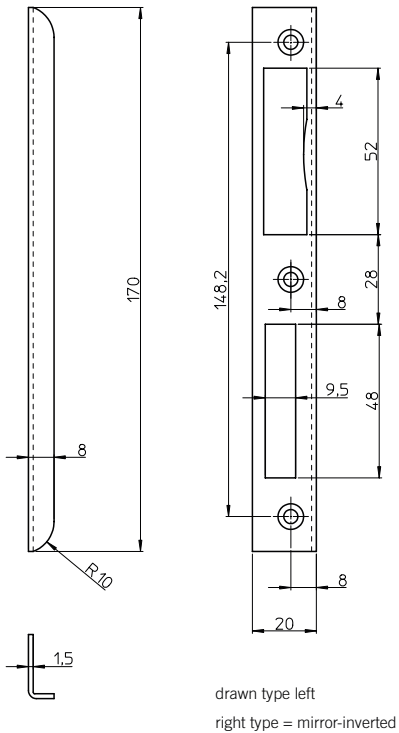
Angle mortice plate ▶
for all mortice locks
for front entrance doors
according to DIN 18251-1

Design:
· steel 1.5 mm, silver metallic

- reversible for right and left hand
application

Art. no. 4151

other materials or finishes on request



◀ **Angle mortice plate**
Angle mortice plate
for mortice locks
for internal and flat entrance
doors, product line 23
according to **TGL** standard
for supported bolt

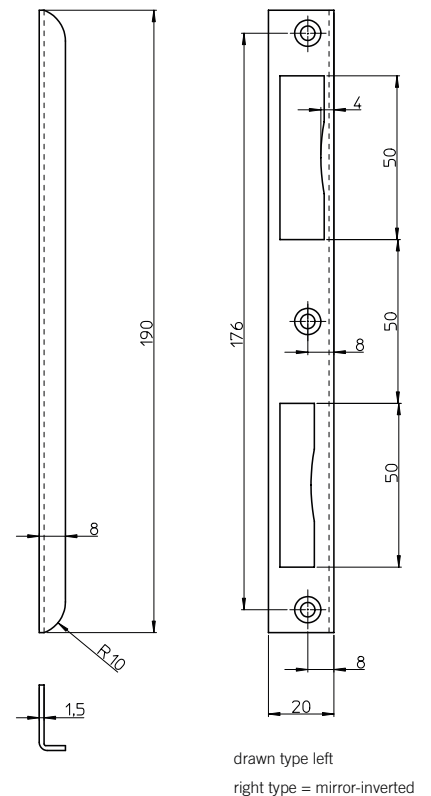
Design:
· steel 1.5 mm, silver metallic

Art. no.
- right **4154 RS**
- left **4154 LS**

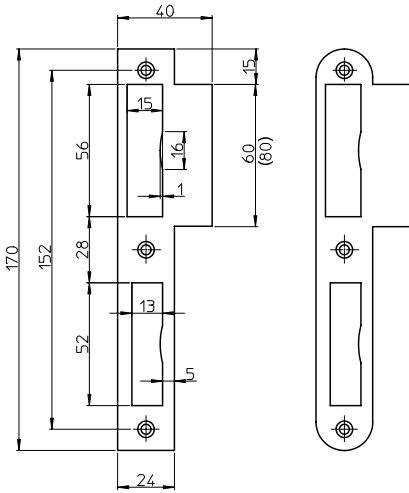
Angle mortice plate ▶
for mortice locks
for front entrance doors, product line 16
according to **TGL** standard
for supported bolt

Design:
· steel 1.5 mm, silver metallic

Art. no.
- right **4151 RS**
- left **4151 LS**



other materials or finishes on request



drawn type left
right type = mirror-inverted

◀ **Lap mortice plate**
for flush-striking
internal and flat entrance doors

Design:
· steel 2mm, silver metallic

- Art. no.**
- right **4509 RS** edged (80 mm)
 - left **4509 LS** edged (80 mm)

 - right **4510 RS** round (80 mm)
 - left **4510 LS** round (80 mm)

 - right **4501 RS** edged (60 mm)
 - left **4501 LS** edged (60 mm)

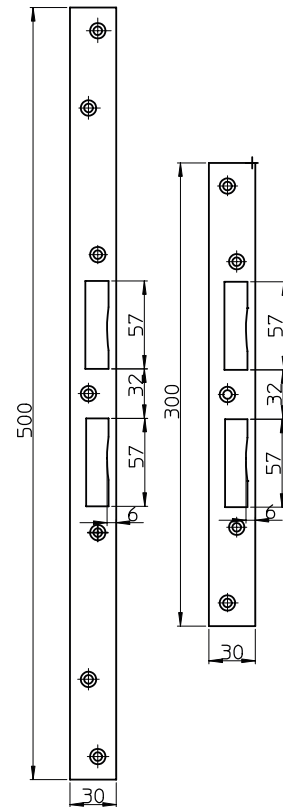
 - right **4502 RS** round (60 mm)
 - left **4502 LS** round (60 mm)

Mortice plate reinforced ▶
for increasing the burglar resistance

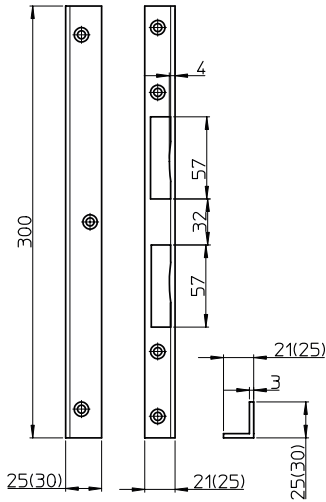
Design:
· steel 3 mm, silver metallic

- reversible for right and left hand application

- Art. no.**
- 4211** length 300 mm
 - 4201** length 500 mm



other materials or finishes on request

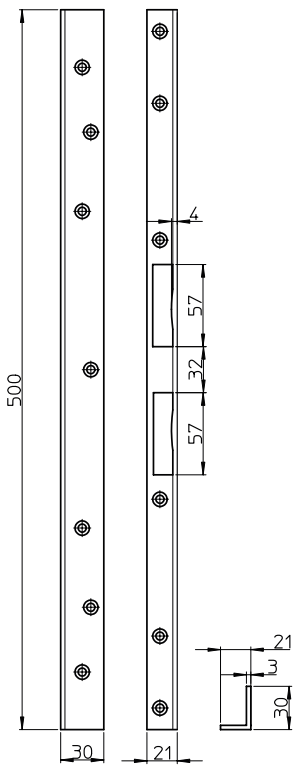
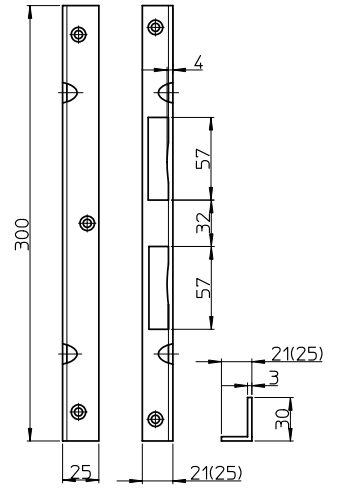


◀ **Angle mortice plate reinforced**
for increasing the burglar resistance

Design:
· steel 3 mm, silver metallic
· with offset screw holes

- reversible for right and left hand application

Art. no.	length	Flange length
4111	300 mm	21x30 mm
4112	300 mm	21x25 mm
4113	300 mm	25x30 mm
4101	500 mm	21x30 mm

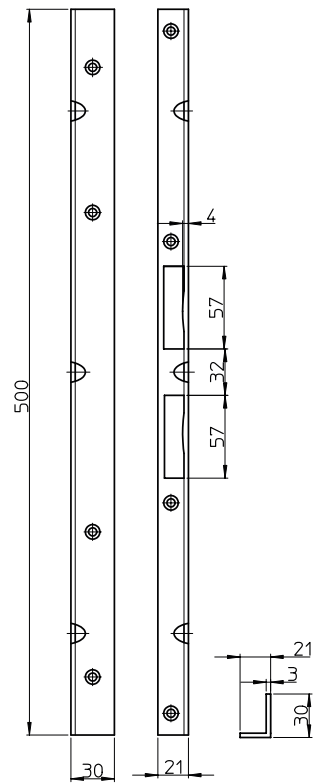


Angle mortice plate reinforced ▶
with bore holes arranged
in parallel

Design:
· steel 3 mm, silver metallic

- reversible for right and left hand application

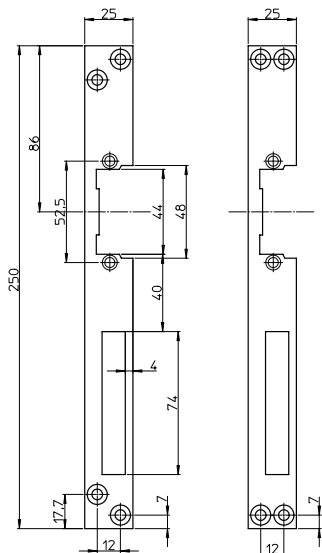
Art. no.	length	Flange length
4141	300 mm	21x30 mm
4143	300 mm	25x30 mm
4129	500 mm	21x30 mm



The mortice plates with a length of 500 mm meet the guidelines of the VDS Association of Property Insurers

other materials or finishes on request

Reinforced angle mortice plates according to **TGL** standard on request



◀ Mortice plate for electromagnetic door handles

Design:
· steel 3 mm, galvanized

- reversible for right and left hand application

with offset bore holes
for the wood fixings

Art. no. 4220

with bore holes arranged in parallel for
the metal fixings

Art. no. 4221

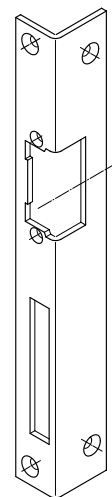
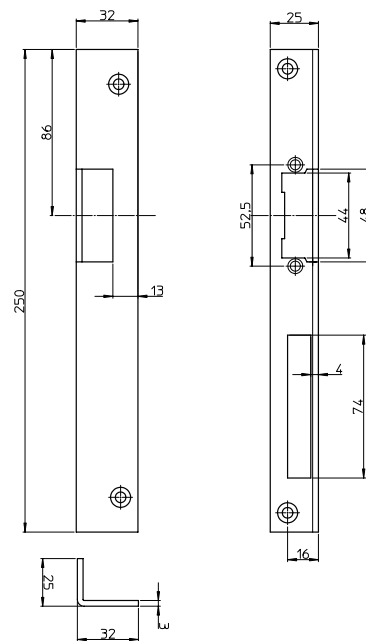
Angle mortice plate ▶ for electromagnetic door handles

Design:
· steel 3 mm, silver metallic
- left (as drawn)
- right (mirror-inverted)

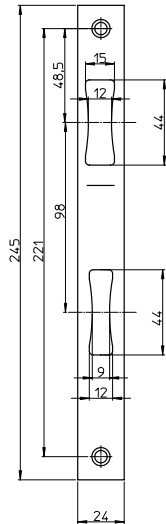
Art. no.

- left **4147 LS**

- right **4147 RS**



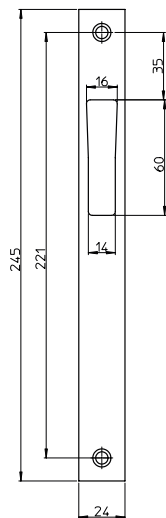
other materials or finishes on request



◀ **Mortise plate for locks for hollow profile section doors**

Design:
 · stainless steel 3 mm, precision ground
 - reversible for right and left hand application

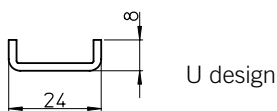
Art. no. 4514
Art. no. 4545 (U design)



◀ **Mortise plate for hollow profile swivel hook dead lock**

Design:
 · stainless steel 3 mm, precision ground
 - reversible for right and left hand application

Art. no. 4518
Art. no. 4546 (U design)

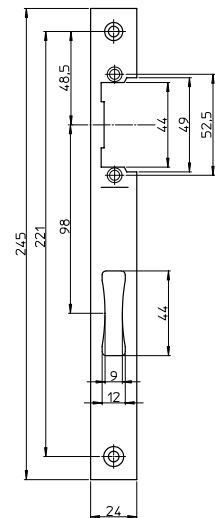


Mortise plate for locks for hollow profile section doors for electromagnetic door handles

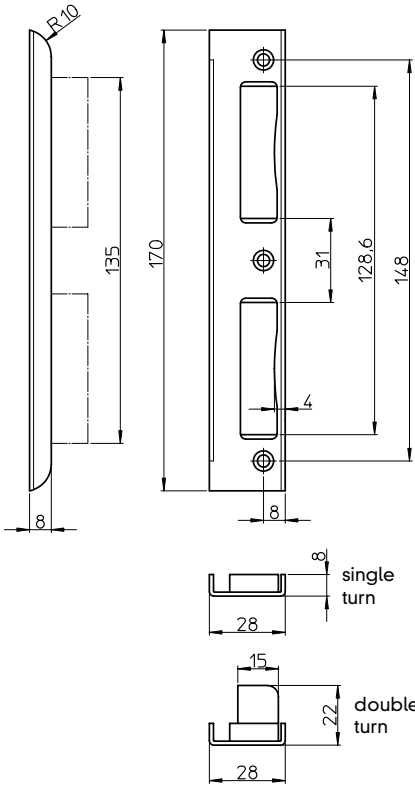
Design:
 · stainless steel 3 mm precision ground

- left (as drawn)
 - right (mirror-inverted)

Art. no. 4224



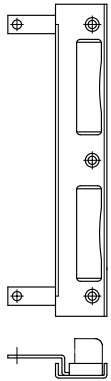
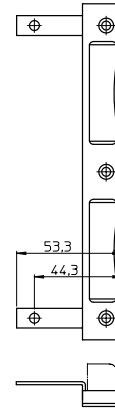
other materials or finishes on request



◀ **U shaped mortice plate**
with nylon insert

- Design:
- steel 1.5 mm, silver metallic
 - nylon inserts grey
 - single turn
 - double turn
 - without or with mounting angle
 - reversible for right and left hand application

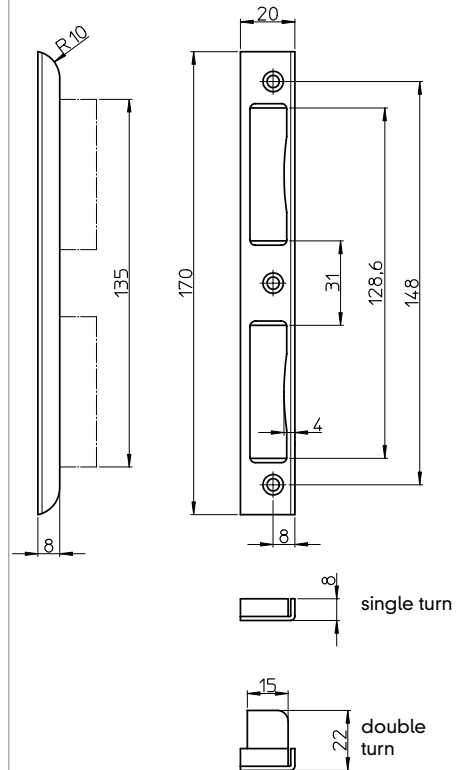
Art. no.	mounting angle	insert
4003	without	single turn
4010	2 loose	single turn
4008	without	double turn
4011	2 loose	double turn



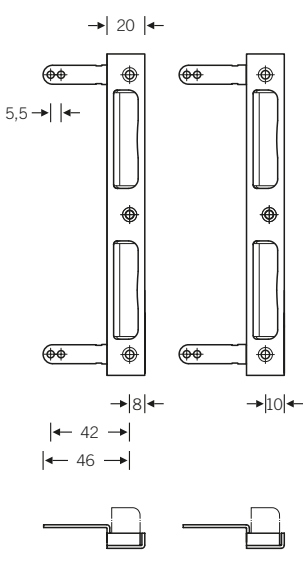
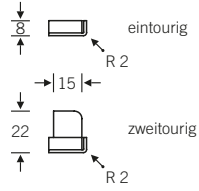
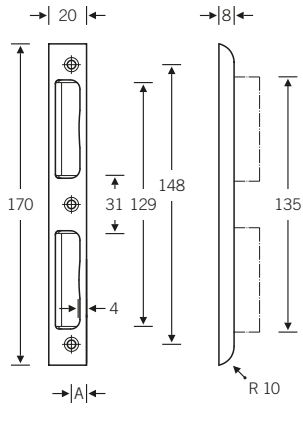
Angle mortice plate ▶
with nylon insert

- Design:
- steel 1.5 mm, silver metallic
 - nylon mortices grey
 - single turn
 - double turn
 - without or with mounting angle
 - reversible for right and left hand application

Art. no.	mounting angle	insert
4051	without	single turn
4050	2 loose	single turn
4062	without	double turn
4063	2 loose	double turn



other materials or finishes on request



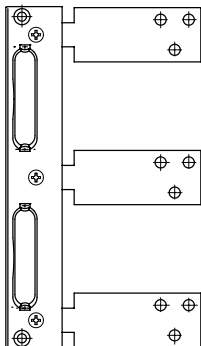
◀ **Angled striking plate**
with plastic

- Options:**
- steel 1.5 mm, metallic silver
 - plastic inlays, grey
 - single-throw
 - double-throw
 - with 2 detachable angle brackets
 - non-handed

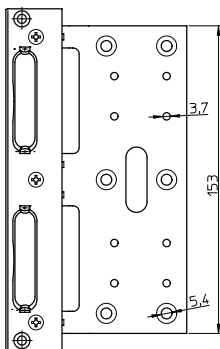
Edge radius
– 2 / 3,5 mm

Item no.	Radius	Centres	
4075	2	8	single
	2	8	double
4068	2	10	single
	2	10	double
4076	3,5	8	single
	3,5	8	double
4069	3,5	10	single
	3,5	10	double

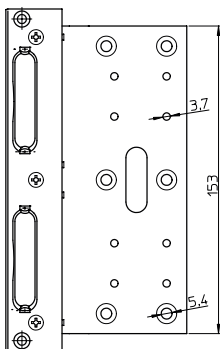
other materials or finishes on request



Art. no. 4189



Art. no. 4197



Art. no. 4199

Angle mortice plate

suitable for mortice locks
for burglar proof doors
according to DIN EN 1627 WK2

Design:

- steel 3 mm, silver metallic
- nylon insert grey
- with mounting brackets, thickness of 3 mm
- with anchor plate, thickness of 4 mm
- cranking 11 mm

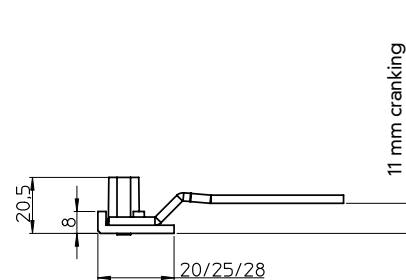
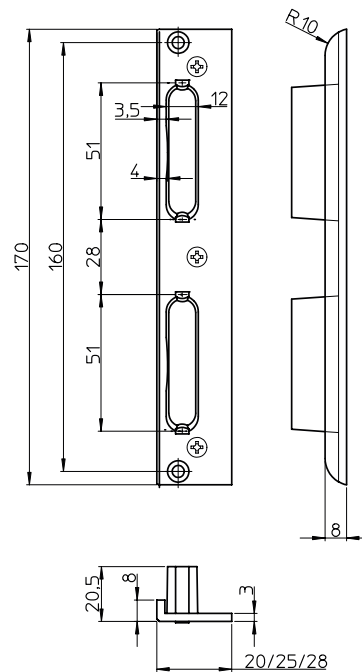
variable in the width

- 20 / 25 / 28 mm

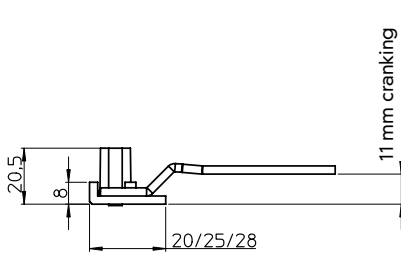
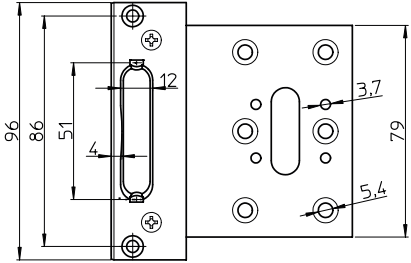
- reversible for right and left hand application

Indicate when placing an order:

- article no.
- mortice plate width



plastic insert deliverable as single turn
and double turn



Art. no. 4198

◀ Angle mortice plate

for increased security requirements
for dead locks

Design:

- steel 3 mm, silver metallic
- nylon mortices grey
- with anchor plate, 4 mm thickness
- cranking 11 mm

variable in the width
- 20 / 25 / 28 mm

Indicate when placing an order:

- mortice plate width
- cranking

Angle mortice plate ▶

insert single turn
for latch or dead locks

Design:

- steel 1.5 mm, silver metallic
- nylon insert, single turn

- reversible for right and left hand
application

width 20 mm **Art. no. 4077**
width 28 mm **Art. no. 4078**

Angle mortice plate ▶

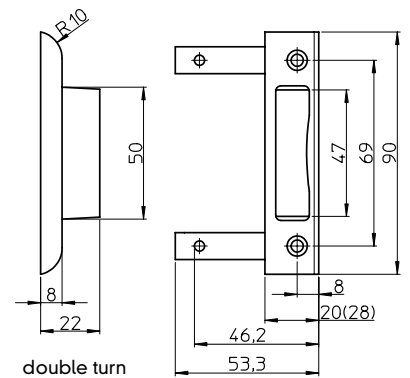
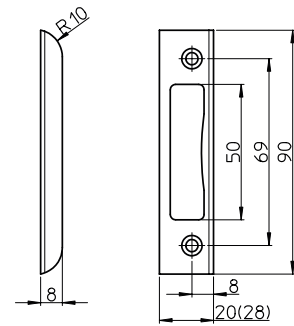
insert double turn
for latch or dead locks

Design:

- steel 1.5 mm, silver metallic
- nylon insert, double turn
- mounting angle

- reversible for right and left hand
application

width 20 mm **Art. no. 4081**
width 28 mm **Art. no. 4082**



double turn

other materials or finishes on request

Accessories

7

Keyhole insert zinc diecasting	72
Keyhole insert nylon	73
Key and cuts	74

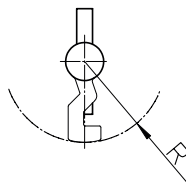
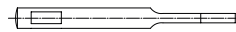
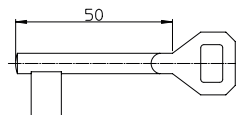
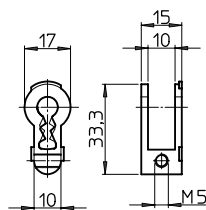
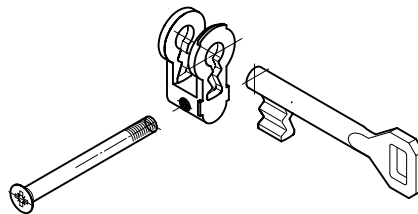
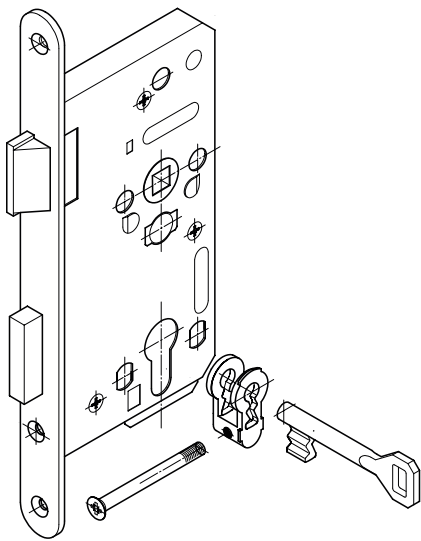
Keyhole insert for euro profile-lock zinc

Warded insert

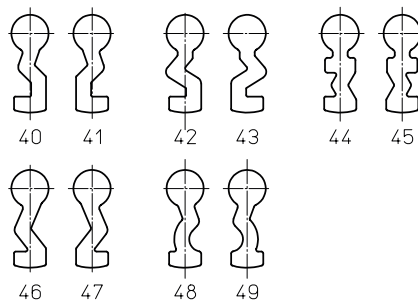
for PZ mortice locks

Art. no. 0.170-

(+ key profile number)



closing radius = 15 mm



Equipment:

- insert element zinc diecasting
- countersunk screw M5 x 65 mm for backsets up to 60 mm
- one key, nickel-plated (additional keys possible)

Several key profiles (webs) are available for the warded inserts. Indicate the profile number when placing an order.

Without such an indication we deliver profiles, mixed.

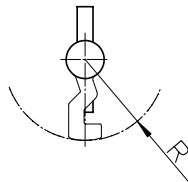
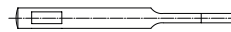
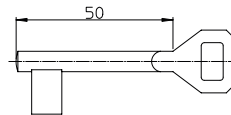
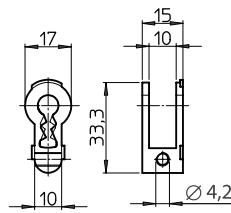
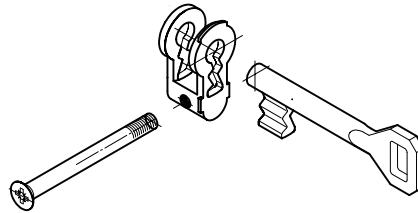
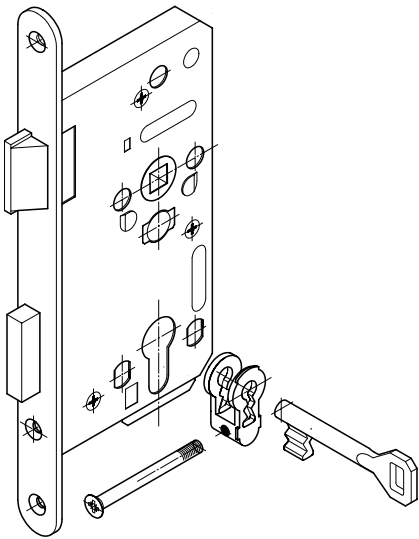
According to our experience, lock cylinders are only inserted after the completion of the interior works.

The SSF warded insert element allows to close / open doors with PZ mortice locks during the total construction phase after the door installation.

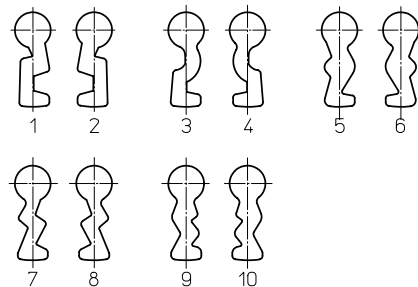
Keyhole insert for euro profile-lock nylon

Warded mortice for PZ mortice locks

Art. no. 0.170-
(+ key profile number)



closing radius = 15 mm



Equipment:

- insert element nylon
- countersunk wood screw M4.5 x 70 mm for backsets up to 60 mm
- one key, nickel-plated (additional keys possible)

Several key profiles (webs) are available for the warded inserts. Indicate the profile number when placing an order.

Without such an indication we deliver profiles, mixed.

According to our experience, lock cylinders are only inserted after the completion of the interior works.

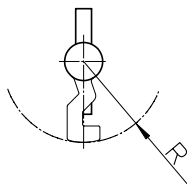
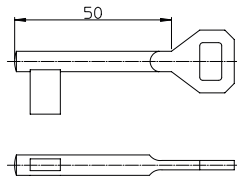
The SSF warded insert element allows to close / open doors with PZ mortice locks during the total construction phase after the door installation.

Keys and profiles

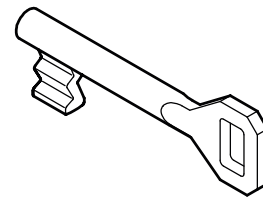
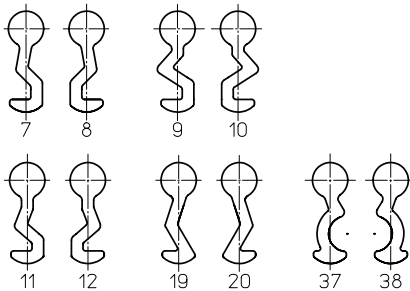
Locks in warded design are delivered with one key (mounted at the front plate).

The designs shown below are available as the key profile.

Without the indication of a special key profile we deliver profiles, mixed.



closing radius R16.5 mm



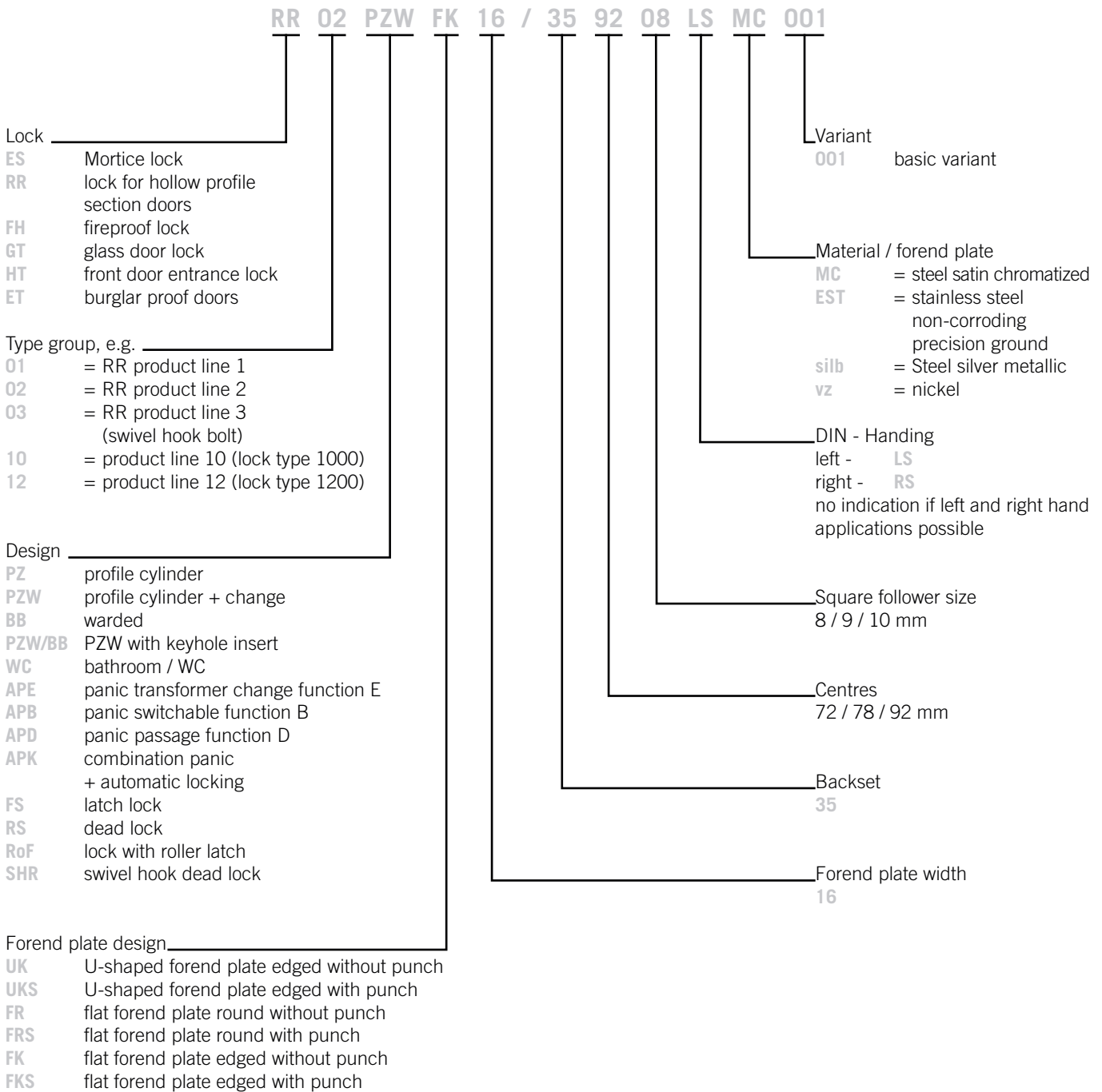
Key:

- warded key for mortice locks
- bow 50x7 mm
- zinc diecasting galvanized
- closing radius R16.5 mm

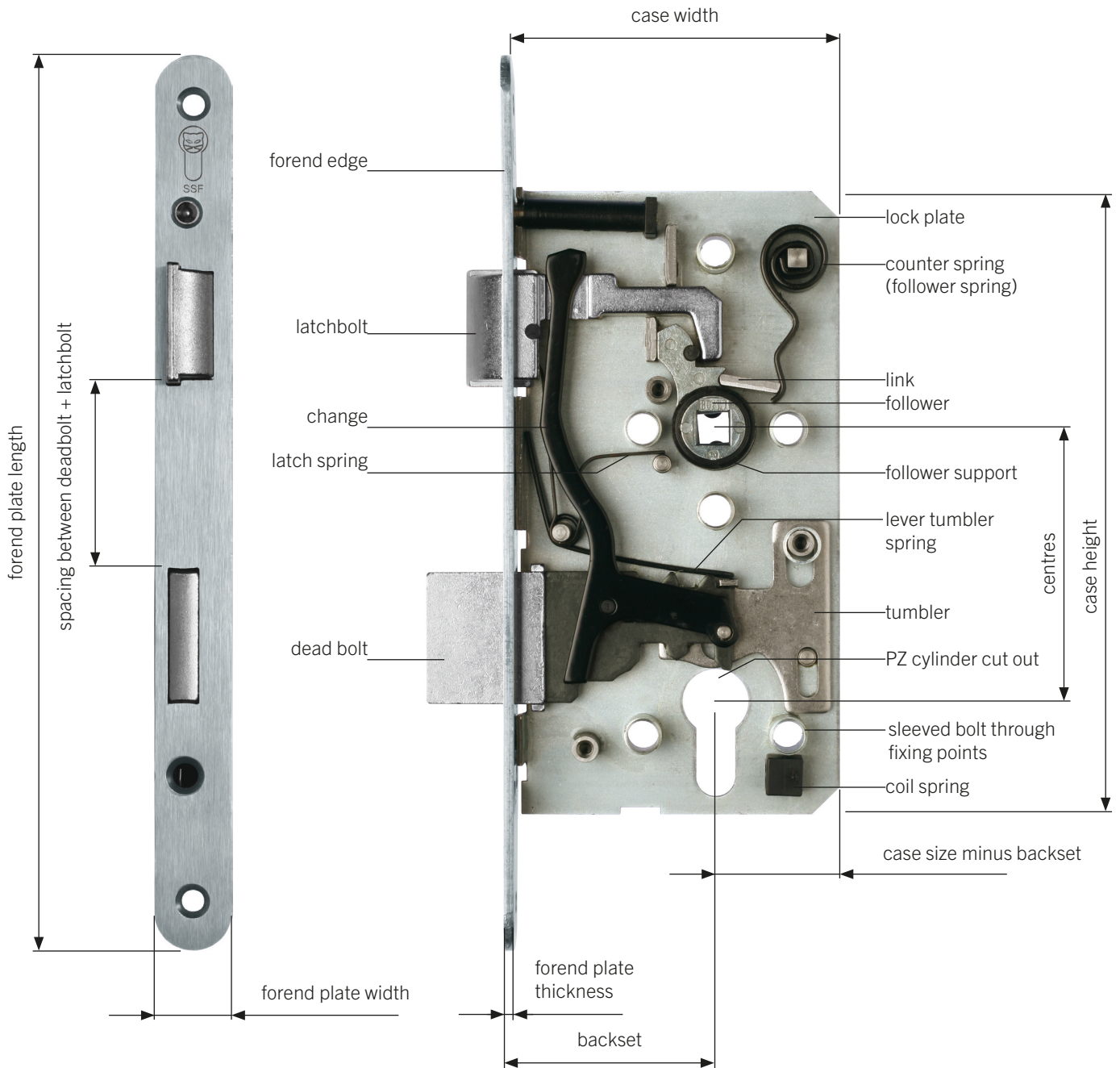
Art. no.
0.166-04.19
(+ key profile number)

Explanation of the article description	76
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Mortice plates / front plates	81
Where to find SSF	82
Marketing organization national	84
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Standards	90
Classification codes according to EN 12 209	92
Product liability	94
General terms of business	96
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Explanation of the article identification



Lock assembly

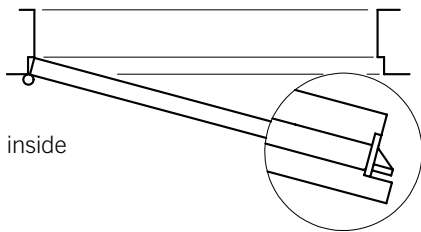


Technical specifications

Directions:

DIN left inwards

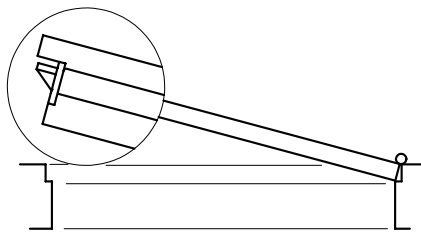
outside



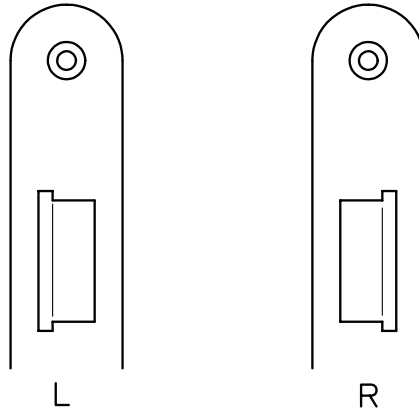
inside

DIN left outwards

outside



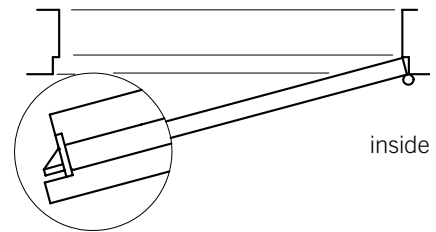
inside



View on the front side of the front plate

DIN right inwards

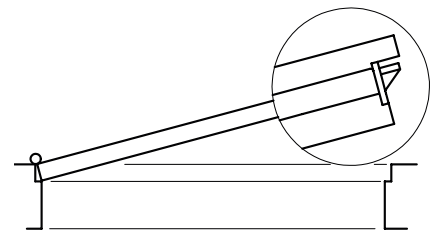
outside



inside

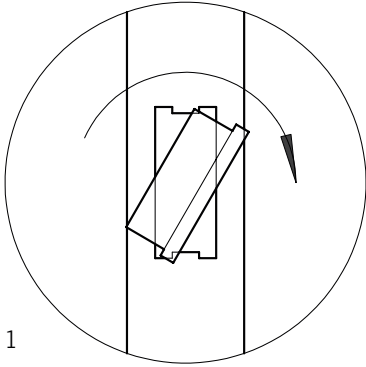
DIN right outwards

outside

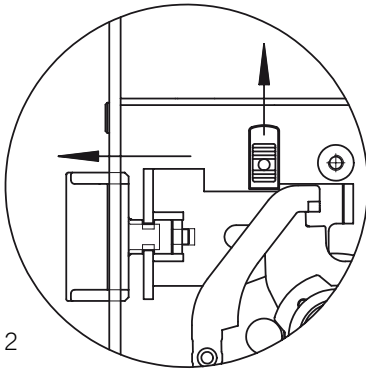


inside

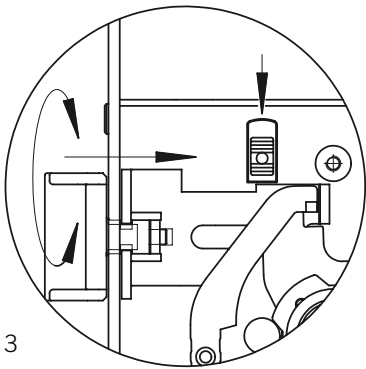
Door handings or handing identifications for locks are defined according to DIN 107 as "Building construction; identification of right and left side".



1



2



3

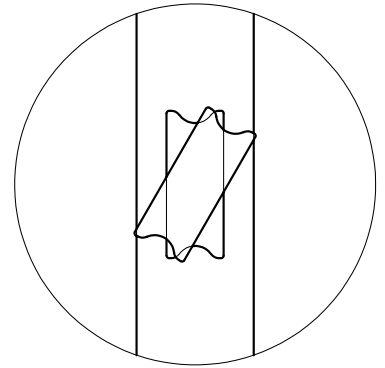
Locks of the product lines 50/51/52 for flush doors, centre type for left / right hand application are delivered with reversible latch bolt (1).

The position of the latch can be adjusted without using tools.

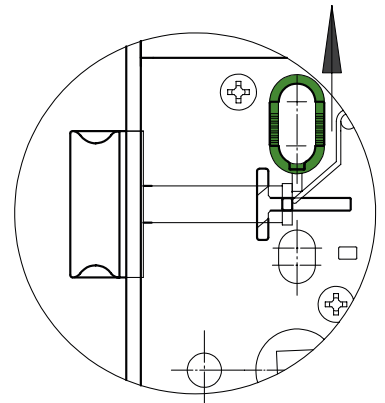
- push the black nylon insert upwards (2)
- the latch is automatically pressed forward out of the front plate (2)
- arrange the latch again in the correct position and press it into the front plate (3)
- the latch bolt is automatically locked

All locks for hollow profile section doors are delivered with reversible latch bolt (4)

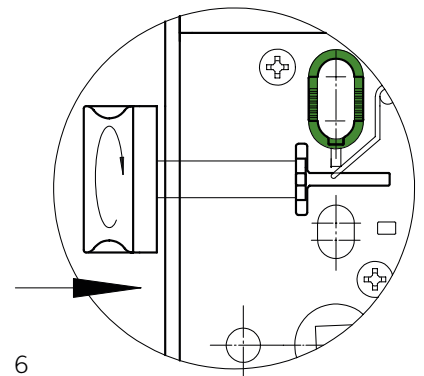
- push the green insert in the upper bore hole upwards (5)
- the latch is automatically pressed forward out of the lock
- twist the latch with latch anchor in the long hole and press it in the new position (6)
- the latch bolt is automatically locked



4

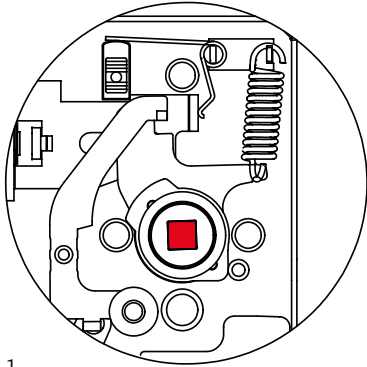


5

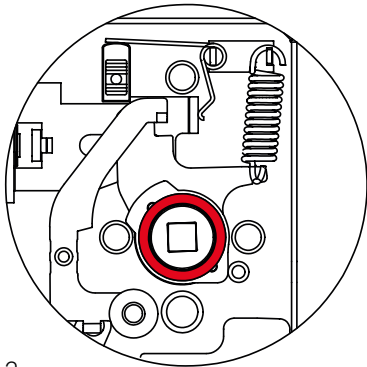


6

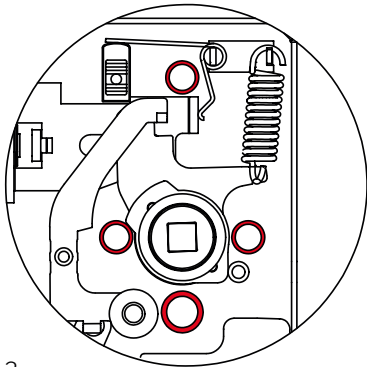
Technical specifications



1

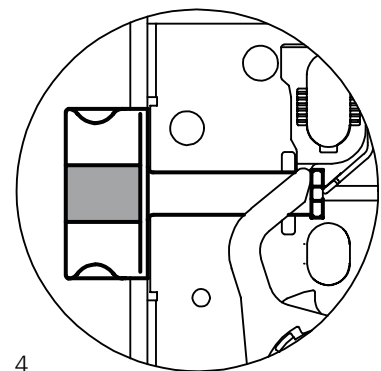


2

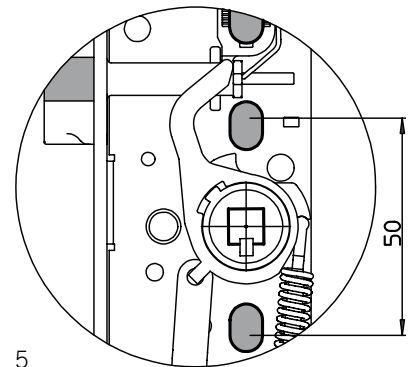


3

1. The clamping follower ensures a tight connection between the lock and the door lever spindle.
2. Bearing rings of steel or glass-fibre-reinforced polyamide guarantee a permanent guide of the lock follower even under extreme load and a high user frequency.
3. sleeved bolt through fixing points avoid that bore chips enter into the lock during the furniture installation and impair the function.



4



5

4. Thanks to the nylon layer embedded in the latch the noise is reduced when the latch strikes the case.
5. Fixing points in the lock allow the proper mounting of the furniture, for locks of hollow profile section doors in particular.

Forend plate designs

At SSF, all lock forend plates are made and offered of the materials
 steel material ST37
 non-corroding special steel material 1.4016
 material 1.4301
 brass material CuZn37.

All forend plates made of steel are provided with a surface protection either as a lacquer or by galvanic treatment.

lacquered surfaces

- silver metallic
- hammer tone gold
- white RAL 9010

plated finishes

- galvanized
- chromium-plated satin
- chromium-plated polished

Forend plates of non-corroding stainless steel

are made of material 1.4016 or material no. 1.4301, depending on the lock product line, and their surfaces are

- precision ground - satin
- polished.

Forend plates made of brass

are

- polished
- precision ground.



silver metallic



hammer tone gold



white



chromium-plated satin



chromium-plated polished



galvanized



stainless steel non-corroding, precision ground - satin



stainless steel non-corroding, polished



brass polished

Please observe the default standard models and the corresponding options for the individual locks.

SSF recommends to always adjust the forend plates and mortice plates.

Test certificates



SSF is certified by TÜV (Technical Control Association) Rhineland according to DIN EN ISO 9001.



All SSF locks for fire doors have been tested by the MPA NRW, Material Testing Department of North Rhine-Westphalia in Dortmund / Germany and provided with the Certificate of Conformity.



SSF locks for hollow profiled section doors of the product line O2 have been tested at PIV Testing Institute Locks & Fittings according to the RAL standards and certified.



All SSF locks of the Classes 3 and 4 (according to DIN 18251) have already been tested according to the EC standard DIN EN 12209. The MPA NRW, Material Testing Department of North Rhine-Westphalia in Dortmund / Germany has granted the corresponding certificates.



The EC Certificate of Conformity verifies that SSF panic locks have been tested, certified and quality-controlled according to DIN EN 179.

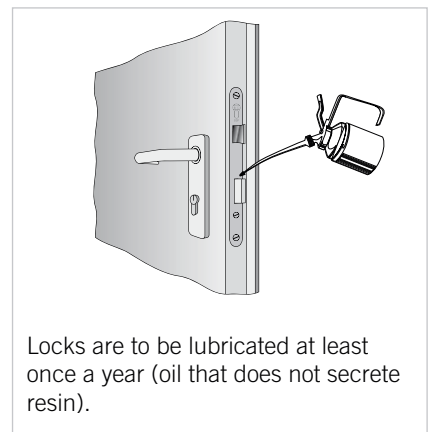
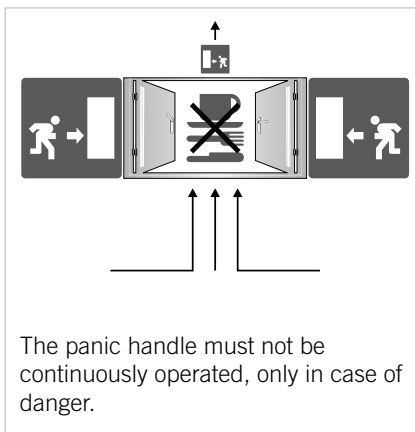
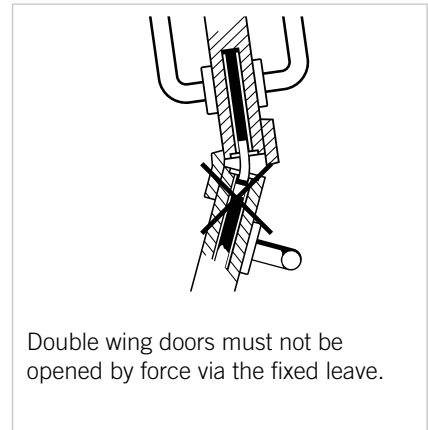
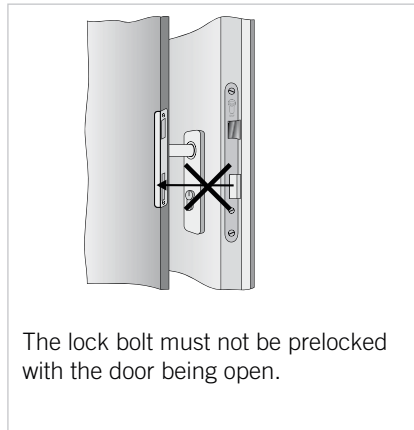
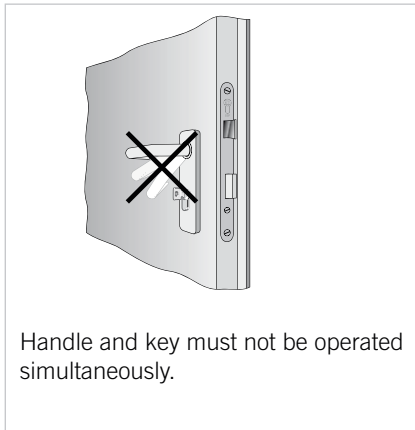
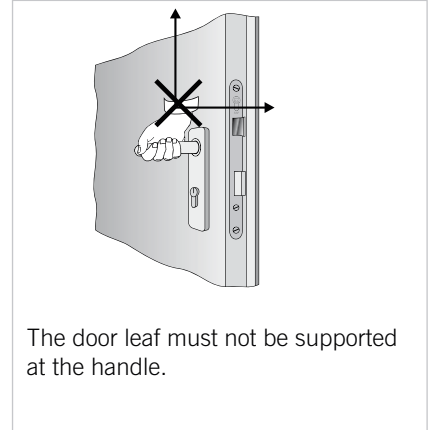
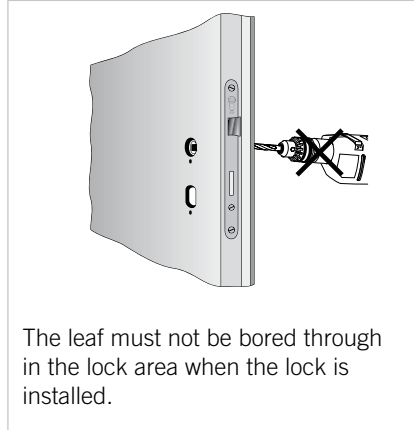
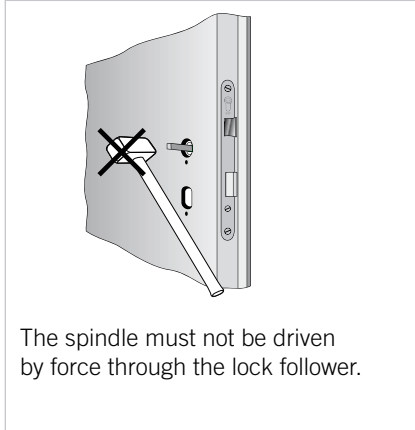
They can be used with the appropriate furnitures at emergency exit doors or escape doors.

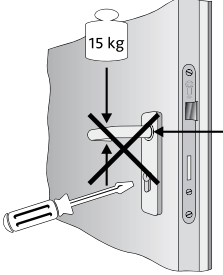


All certificates can be requested, if necessary, or downloaded via the Internet www.ssf.de

- Our service
- Certificates.

Installation and operation

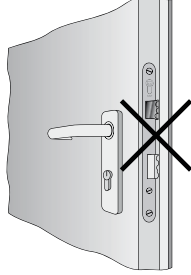




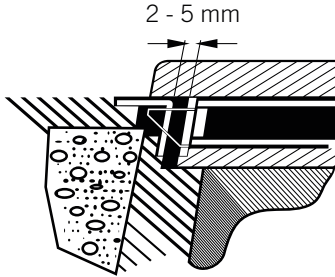
The handle must only be loaded in the normal sense of rotation. A power of maximally 150 N can be applied on the handle towards operation sense. The lock must only be closed by using the appropriate key (and not by using other objects).



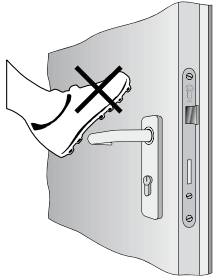
Lock bolt and latch must not be painted over or lacquered.



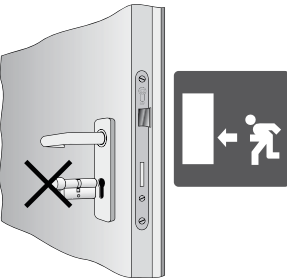
As soon as marks of force are visible the lock must be replaced.



The centres between the lock forend plate and the stringer plate should range between 2 mm and 5 mm.



Exclude kicks (vandalisms)



Lock cylinders with free-running function of the tappet must not be installed in panic mortice locks. These are for example cylinders in which the tappet can be freely turned with the key being removed or so called cylinders and turns.

For locks subject to DIN 18251-1 the milling of the lock recesses is defined in DIN 18101. Lock not subject to DIN 18251-1 must be mounted without stress and be tested for the friction-free function. Doors are to be installed according to the instructions given by the manufacturer and to be operated according to the valid standards (often complaints are made about locks that do not function properly due to wrongly installed doors (frame size)).



Single furniture parts should only be combined if they have been produced by one manufacturer.

Product liability

The following information about locks are to be considered in compliance with the manufacturer's liability for its products defined in the Product Liability Act.

We do not take any liability if this information is not observed.

1. Product liability and intended use

A lock has almost always the task to secure a door. Some lock constructions have only the function of closing – they are also called closures. The term closing means that a door is kept close so that it cannot be opened by axial force or pressure but it can be opened easily by operating the handle.

The term locking describes the operation to secure a door by an unsprung rigid bolt that is pushed out of the lock and engages into the corresponding recesses of the frame or the lock cutout.

The bolt must be stiff in its final position and the opening of the door must be difficult without the appropriate opening means.

The latch is used for locking.

The function of the bolt is to lock.

The gear is used to displace the bolt. The locking mechanism (tumbler with an anchoring) keeps it in a defined position. The locking may only be performed in a previously closed state (this applies also for clutch bolts, compass bolts). Cylinder fixing screws are to be matched or adjusted to the backset length.

A mortice lock is a lock that is inserted and screwed into an existing recess (lock recess) in the door leaf and normally it is based on swing doors.

To ensure the intended use the correct combination with approved fittings and locking means (e.g. keys, cylinders) as well as accessories (e.g. mortice plate) must be mounted according to the installation instructions or the relevant DIN standards, maintenance included. Locks for doors with special functions are to be selected according to the regulations and to label additionally, if required.

The lever handle must not be simultaneously operated with the locking or unlocking operation in escape and emergency exit doors. These locks are designed for the low operation frequency in an emergency. The normal desired locking (i.e. single or double turn by rotating the key) must not be replaced by the permanent activation of the emergency function.

Lock cylinders can only be installed into locks unconditionally, if these lock cylinders follow a size standard (DIN 18 252) and if they are expressly designed for lock cylinders according to this standard.

In all the other cases, the manufacturer, fabricator or user must make sure about the suitability of the lock cylinder selected for the intended use.

Mandatory legal regulations must be observed. For example, cylinder and turns, must not be installed into panic locks.

General terms are defined in DIN 18 250, DIN 18 251-1, DIN 18 252 and the furniture standards, if they are not explained in the catalogue parts and figures. Deviations from the standard are to be indicated when placing the order.

2. Incorrect use

An incorrect use of locks – that is a use of the product different from the intended one – is for example given, if

- the perfect use is prevented due to inserting improper objects into the lock or the mortice plate,
- the lock or mortice plate is manipulated or attacked in such a way that the construction, mechanism or function is limited,
- disengaged lock bolts are used improperly in order to keep the door open,
- the locking elements are mounted or retreated, e.g. by a lacquer coating, so that their function is limited,
- an improper force or a force higher than the normal manual one is applied on the handle unit,
- inappropriate, e.g. dimensionally deviating or wrongly adjusted, locking means are used,
- an extension or reduction of the required door gap is caused by readjusting the hinges or by lowering the door,
- a double swing door not approved for this is opened via the fixed wing,
- an object or hand grasps between the leaf and the frame while closing the door,
- the handle and locking mechanism are simultaneously operated.

3. Product performances

If the product performances are not precisely defined in our catalogues, leaflets, functional specifications, etc., we are to be informed about the demands on the individual locks.

The standards DIN 18 250, DIN 18 251-1, DIN 18 251-2, DIN 18 252, DIN 18 257, DIN 18 258 and the furniture standard are fundamental documents.

These standards define the basic and additional requirements for locks.

The fitness of the locks for use depends, among other facts, on the operation frequency, the way of operation, environmental influences and maintenance.

Lock, cylinder and locking units are to be replaced, if malfunctions occur despite proper maintenance, particularly when inserting or removing the key.

4. Product maintenance

Locks have to be lubricated – depending on the use – at least once or several times a year. The correct function of e.g. the lock, locking units, furniture and mortice plate is to be checked then and to make sure.

It is only allowed to use such detergents that do not contain corrosion-supporting components.

5. Information and instruction duty

The following documents and services are available for specialized distributors, key service staff, architects, designers, fabricators or users on request to fulfil the information and instruction duties.

- catalogues, folders, tender specification texts, offer documents, locking plans
- DIN 18 250, DIN 18 251-1, DIN 18 251-2, DIN 18 252, DIN 18 257 (exclusive sale by Beuth Verlag GmbH, Berlin 30)
- instruction for installation, operation and maintenance
- consultancy service by us or our sales representatives.

For the selection, installation, operation and maintenance of locks

- the architects and designers are obliged to request and observe all necessary product information,
- the specialized dealers are obliged to observe all the product information and notes in the price lists and, in particular, to request all necessary instructions and to distribute them to the staff,
- the specialized dealers are obliged to request all the product information, in particular the operation and maintenance instructions, to distribute them to the customers and operators.

The complete product range is subject to change without notice.

General Conditions of sale

1. General information

All offers and agreements are exclusively based on the following conditions; deviating conditions of the customer that have not been expressly accepted in writing, will not be applicable.

2. Offers

Our offers are subject to confirmation if they are not delivered expressly as binding or fixed. A sales contract will only be valid after our written confirmation of the order.

3. Delivery and passing of the risk

The delivery is made on the risk and costs of the customer. The risk will be passed to the customer with the delivery to the forwarding agent or the carrier.

4. Delivery dates

The delivery dates specify the estimated date of deliver, and we will do our best to comply this date.

5. Prices

The price valid on the delivery date is decisive for the price plus value added tax, if other price agreements have not been made. The prices shall be without package from the store of Groitzsch. The package is calculated at cost. Partially paid tools will remain our property.

6. Payment, set-off and retention, return

Our invoices are to be paid within 14 days after the date of invoice with 2% discount or net cash within 30 days after the date of invoice. Amounts less than EUR 50.00 are to be payable without discount.

If the payment date is over, we have the right to invoice interests on overdue accounts in the height of the current account credit rate in accordance with bank practices, at least 3% above the corresponding basic interest rate according to the German Civil Code 247. If we get information about some conditions that justify reasonable doubts about the customer's credit worthiness the after the placement of an order, we shall be entitled to deliver this order only with payment in advance and to deliver the other orders only by considering their advance payments.

The customers shall only be authorized to offset against legally determined or uncontested counter claims and they shall have the right of retention due to such claims that are based on the same contract relation. The customer shall only be entitled to return products, if an expressive agreement has been made in advance about this option. Such returns are combined with a reduction in value for expense allowance of at least 30%.

7. Reservation of title

The products delivered (goods subject to retention) will be our property up to the complete payment of the purchase price and all debts owing and accruing from our business relations with the customer.

This provision shall also be valid if individual or all debts of the customers have been recorded in a running account and a balance has been struck and accepted. The customers shall be entitled to sell the goods subject to retention within a proper business operation if they fulfil their contractual duties. Otherwise we shall be authorized to require the return of the goods subject to retention; the customer has not any right of possession in this case.

Then, we shall be entitled to utilize the goods subject to retention taken back without prejudice of the customer's payment and to credit the surplus to the customer's account. With the purchase of the goods subject to retention, the customers already assign the claims arising from their resale for his customers to us. Up to revocation, they shall be entitled to collect the claims but they shall inform us immediately about the amount of their claims and their customers' names. If a liability based on the law of exchange is justified, our reservation of title will not expire before the payment of the bill. If the realizable value of the existing securities is higher than the covered debts by more than 10% we shall be obliged to release securities according to our choice on the customer's request. We shall be entitled to withdraw from the agreement, if an application for the initiation of insolvency proceedings about the customer's property is made.

8. Information

The information and figures contained in the leaflets and catalogues are approximate values usual in this line of business, if they have not been otherwise expressly marked. The customers shall be obliged to convince themselves about the suitability of the products for the intended use.

9. Liability

We have to be informed immediately, at least 10 days after the delivery of the products, about claims due to visible defects, wrong deliveries or considerable variations in quantities. If the customer does not inform us about a defect, the products are considered to be accepted without limitation. The decisive factor for the condition of the goods is the time of passing the risk according to number 3. If the customer does not notify a defect within this period, the products are considered accepted free of defects. The time of passing the risk is decisive for the contractual condition of the goods according to no. 3. Latent defects are to be reported immediately after their detection. We shall have the chance to see the defect. We shall be liable for a defect-free condition according to the state of the art during two years after the delivery of the products.

Defects due to normal wear, incorrect use, wrong installation or repair are excluded from the warranty obligation. This shall also apply for defects that reduce the effectiveness of the goods only insignificantly. In case of a justified and punctual complaint, we will care

about the rectification of the defects or a replacement delivery; further claims, particularly for the replacement of consequential defects, shall be excluded. The customer reserves the right to claim the reduction of payment or the withdrawal of the contract in case of failure of this measure.

10. Place of performance and place of jurisdiction

Place of performance, place of payment and place of jurisdiction, also for drafts and requests for arbitration is Groitzsch, as far as permissible. German law is exclusively applicable. The application of the United Nations from 11 April 1980 on the International Sales of Goods (CISG-the ViennaConvention) shall be excluded.

11. Final provision

The legal ineffectiveness of some provisions will not affect the legality of the General Conditions of Sale.

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