The Lock Catalogue

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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 as 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 end of the key’s neck contains variously deep cuts.

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

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 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.

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.

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.

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.

So called “Hobbs Lever”, the opening instrument with which Hobbs opened the Chubb lock.

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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 doorno-screwing and mortise locks, safe-locks and finally car and truck locks made in Pegau became renowned internationally as German brand products.

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

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 mortice 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”.

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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!
<table>
<thead>
<tr>
<th></th>
<th>Mortice locks for high usage doors</th>
</tr>
</thead>
<tbody>
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<td>23</td>
<td>Mortice locks for fire and panic doors</td>
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<tr>
<td>31</td>
<td>Mortice locks for internal doors</td>
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Mortice locks for high usage doors

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.

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.

<table>
<thead>
<tr>
<th>Class</th>
<th>Latch spring force N</th>
<th>Furniture support moment Nm</th>
<th>Furniture moment Nm</th>
<th>Static latch load kN</th>
<th>Static bolt load kN</th>
<th>Bolt counteracting force kN</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>2</td>
<td>2.5</td>
<td>4.0</td>
<td>1.2±0.4</td>
<td>40</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>3</td>
<td>2.5</td>
<td>4.0</td>
<td>1.5±0.4</td>
<td>50</td>
<td>3</td>
<td>6</td>
</tr>
<tr>
<td>4</td>
<td>2.5</td>
<td>4.0</td>
<td>1.5±0.4</td>
<td>50</td>
<td>5</td>
<td>10</td>
</tr>
<tr>
<td>5</td>
<td>2.5</td>
<td>4.0</td>
<td>1.5±0.4</td>
<td>50</td>
<td>5</td>
<td>10</td>
</tr>
</tbody>
</table>

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 18251-1 Classes 3-5 SSF locks of the product line 5... following the European standard EN 12209 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

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**Mortice lock ES**

**Product line 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
  9
  10
- square follower 9 mm (FH design)
  09
- square follower 10 mm
  10
(consider delivery times)

**Example for article identification**

- ES 50 PZW FR 24 / 55 72 08 EST
- ES 50 WC FR 24 / 55 78 08 EST

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**Classification code according to EN 12 209**

| S | M | 5 | 1 | 0 | F | 3 | B | C | 2 | 0 |

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Fig.: WC type

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

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

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

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

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

Example for article identification
ES 51 PZW FR 24 / 55 72 08 EST
ES 51 WC FR 24 / 55 78 08 EST

Fig.: WC type

Tyto zámky můžete zakoupit u společnosti EfB, spol. s r.o.
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**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

<table>
<thead>
<tr>
<th>Mortice lock for flush doors</th>
<th>ES 52 PZW FR 24 / 55 72 08 RS EST</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product line 52</td>
<td>52</td>
</tr>
<tr>
<td>- PZ double-turn with key operated spring bolt change</td>
<td>PZW</td>
</tr>
<tr>
<td>- WC type</td>
<td>WC</td>
</tr>
<tr>
<td>flat rounded forend plate</td>
<td>FR</td>
</tr>
<tr>
<td>forend plate width</td>
<td>24</td>
</tr>
<tr>
<td>- 20 / 24 mm</td>
<td>20</td>
</tr>
<tr>
<td>backset sizes</td>
<td>55</td>
</tr>
<tr>
<td>- 55 / 60 / 65 mm</td>
<td>55</td>
</tr>
<tr>
<td>centres</td>
<td>72</td>
</tr>
<tr>
<td>- PZ 72 mm</td>
<td>72</td>
</tr>
<tr>
<td>- WC 78 mm</td>
<td>78</td>
</tr>
<tr>
<td>square follower size</td>
<td>08</td>
</tr>
<tr>
<td>8 mm</td>
<td>08</td>
</tr>
<tr>
<td>handing</td>
<td>reversible</td>
</tr>
<tr>
<td>forend design</td>
<td>Stainless steel non-corroding precision-ground</td>
</tr>
</tbody>
</table>
| (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

**Example for article identification**
ES 52 PZW FR 24 / 55 72 08 RS EST
ES 52 WC FR 24 / 55 78 08 RS EST

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

**Classification code according to EN 12 209**

3 S 5 1 0 G 6 B C 2 0

**Example for article identification**
ES 52 PZW FR 24 / 55 72 08 RS EST
ES 52 WC FR 24 / 55 78 08 RS EST

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Fig.: WC type
Product line 53

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

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

**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 54

**Mortice lock**

According to DIN 18251-1

Class 4

For high usage doors

With high user frequency

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<table>
<thead>
<tr>
<th>Dimensions</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
</tr>
</thead>
<tbody>
<tr>
<td>20</td>
<td>3.4</td>
<td>4.0</td>
<td>1.4</td>
<td></td>
</tr>
<tr>
<td>24</td>
<td>6.0</td>
<td>6.6</td>
<td>4.0</td>
<td></td>
</tr>
</tbody>
</table>

---

**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
- Front plate colours on stainless steel lacquered
  - Silver metallic
  - White
- Front plate material
  - Brass polished (not for FH design)
  - Backset 70 / 80 / 100 mm
  - Square follower 9 mm (FH design)
  - Square follower 10 mm

(Consider delivery times)

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**Example for article identification**

- ES 54 PZW FR 20 / 55 72 08 RS EST
- ES 54 WC FR 20 / 55 78 08 RS EST

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Fig.: WC type
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**

<table>
<thead>
<tr>
<th>Dimens. A</th>
<th>Dimens. B</th>
<th>Dimens. C</th>
<th>Dimens. D</th>
</tr>
</thead>
<tbody>
<tr>
<td>20</td>
<td>3.4</td>
<td>4.0</td>
<td>1.4</td>
</tr>
<tr>
<td>24</td>
<td>6.0</td>
<td>6.6</td>
<td>4.0</td>
</tr>
</tbody>
</table>

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

**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

**Example for article identification**

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

Tyto zámky můžete zakoupit u společnosti EfB, spol. s r.o. [www.obchod.luxusnikovani.cz](http://www.obchod.luxusnikovani.cz)
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

Mortice lock
Product line 55
with shared latch
PZ double-turn with key operated
spring bolt change
flat rounded
- forend plate
forend plate width
- 20 / 24 mm
backset sizes
- 60 / 65 mm
centres
PZ 72 mm
square follower size
- 8 / 9 mm
handing
- right hand
- left hand
forend plate design
- Stainless steel non-corroding
precision-ground
(Material no. 1.4301)

Equipment:
- 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
- Front plate colours on stainless steel lacquered
  - silver metallic
  - white
- Front plate material
  - Brass polished (not for FH design)
  - Backset 70 / 80 / 100 mm
  - square follower 9 mm (FH design)
  - square follower 10 mm
(Consider delivery times)

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

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

Tyto zámky můžete zakoupit u společnosti EfB, spol. s r.o.
www.obchod.luxusnikovani.cz

Fig.: WC type

Tyto zámky můžete zakoupit u společnosti EfB, spol. s r.o.
www.obchod.luxusnikovani.cz
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

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

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) 70
  - square follower 10 mm 10
(Consider delivery times)

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

Example for article identification
ES 55 RoF PZW FR 20 / 65 72 EST

Tyto zámky můžete zakoupit u společnosti EfB, spol. s r.o.
www.obchod.luxusnikovani.cz
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

Mortice lock burglar proof-locks
Product line 55
PZ double-turn with key operated spring bolt
flat rounded forend plate, double thickness
forend plate width 20 mm
backset sizes - 55 / 60 / 65 mm
centres PZ 72 mm
square follower size - 8 / 9 mm
handing - right hand RS - left hand LS
forend plate design
- Stainless steel non-corroding precision-ground (Material no. 1.4301)

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

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
  - silver metallic silb
- backset 70 / 80 / 100 mm 70
- square follower 9 / 10 mm 09
- forend plate length 280 mm 10
(Consider delivery times)

Example for article identification
ET 55 PZW FR 20 / 55 72 08 RS EST

Tyto zámky můžete zakoupit u společnosti EfB, spol. s r.o.
www.obchod.luxusnikovani.cz
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 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 via the activation of the door handle.

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 levor 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.

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Tyto zámky můžete zakoupit u společnosti EfB, spol. s r.o.
www.obchod.luxusnikovani.cz
Product line 20

Mortice lock
according to DIN 18250
Class 3
for fire doors

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

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

Options:
- flat forend edged
- forend plate material non-corroding
  high-quality steel
- backset 80 mm

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

Example for article identification
FH 20 PZW FR 24 / 65 72 09 RS vz

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

Tyto zámky můžete zakoupit u společnosti EfB, spol. s r.o.
www.obchod.luxusnikovani.cz
Product line 20 E

Mortice lock
according to DIN EN 1627 and DIN 18250
WK 2 qualified
for fire doors
burglar proof

Mortice lock fire-resistant  FH
Product line 20 E  20E
PZ double-turn with key operated spring bolt  PZW
flat rounded forend plate, double thickness  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 RS  - left hand LS
forend endplate 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

Options:
· forend plate material non-corroding stainless steel EST
· backset 80 mm  80
· prolonged forend plate 280 mm  280

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

Example for article identification
FH 20E PZW FR 24 / 65 72 09 RS vz

Tyto zámky můžete zakoupit u společnosti EfB, spol. s r.o.
www.obchod.luxusnikovani.cz

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

Mortice lock fire-resistant
Product line 20
PZ double-turn with key operated
spring bolt
panic function E

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
  EST
- non-corroding stainless steel
  80
- backset 80 mm

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

Tyto zámky můžete zakoupit u společnosti EfB, spol. s r.o.
www.obchod.luxusnikovani.cz
Product line 20 APD

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

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 RS
- left hand LS
forend plate design - steel galvanized vz

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

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

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

**Mortice lock** fire-resistant

Product line 20
20

PZ single turn with key operated
spring bolt
combination panic +
automatic locking

APK

flat rounded forend plate
FR

dropdown plate width
20 / 24 mm
24

backset sizes
- 55 / 60 / 65 mm
65

centres
PZ 72 mm
72

square follower size 9 mm
09

dropping -
- right hand
RS
- left hand
LS

dropdown 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

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

**Example for article identification**
FH 20 APK FR 24 / 65 72 09 RS vz

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Tyto zámky můžete zakoupit u společnosti Efb, spol. s r.o.
www.obchod.luxusnikovani.cz

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

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SSF
Dis Schloßerei

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Tyto zámky můžete zakoupit u společnosti Efb, spol. s r.o.
www.obchod.luxusnikovani.cz
**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

<table>
<thead>
<tr>
<th>Equipment:</th>
<th>Example for article identification</th>
</tr>
</thead>
<tbody>
<tr>
<td>· follower steel</td>
<td>ES 21 APK FR 24 / 55 72 09 LS vz</td>
</tr>
<tr>
<td>· latch steel with malleable iron head</td>
<td></td>
</tr>
<tr>
<td>· bolt steel nickel-plated</td>
<td></td>
</tr>
<tr>
<td>· lock case all-around closed, galvanized</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Functions:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>· delayed automatic locking</td>
<td></td>
</tr>
<tr>
<td>· noise reduction for automatic locking</td>
<td></td>
</tr>
<tr>
<td>· if the bolt is drawn back it is earlier drawn back than the latch</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Options:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>· flat forend plate edged</td>
<td>FK</td>
</tr>
<tr>
<td>· forend plate material</td>
<td>EST</td>
</tr>
<tr>
<td>· non-corroding stainless steel</td>
<td>EST</td>
</tr>
<tr>
<td>· backset 80 mm</td>
<td>08</td>
</tr>
</tbody>
</table>

Classification code according to EN 12 209

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

Tyto zámky můžete zakoupit u společnosti EfB, spol. s r.o.
www.obchod.luxusnikovani.cz
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 |

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

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

Options:
· flat forend plate edged
· forend plate width 18 / 24 mm
· forend plate colours
  - Hammer tone gold
gold
  - White
white
· forend plate material
  - Stainless steel fine satin
  - Brass polished

(Consider delivery times)

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

Mortice lock
Product line 10
- warded lock with one key, keyhole, bright plated
  mounted at the front plate
- WC type
flat rounded forend plate
forend plate width 20 mm
backset size 55 mm
centres
  - BB = 72 mm
  - WC = 78 mm
square follower size 8 mm
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

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)

Tyto zámky můžete zakoupit u společnosti EfB, spol. s r.o.
www.obchod.luxusnikovani.cz
Fig.: WC type
Product line 22

**Mortice lock**
according to DIN 18251-1
Class 2
for internal doors

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

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

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

**Dimensions:**

<table>
<thead>
<tr>
<th></th>
<th></th>
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<td>24</td>
<td>6</td>
<td>6.5</td>
<td>3.9</td>
</tr>
</tbody>
</table>

**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)
Product line 22 FG

Mortice lock
according to DIN 18251-1
Class 2
for internal doors

Mortice lock
Product line 22
Latch bolt with noise reduction
- Warded with one key, bright plated (mounted at the front plate)
- WC type
flat rounded forend plate
forend plate width 20 mm
backset size 55 mm
centres
- BB = 72 mm
- WC = 78 mm
square follower size 8 mm
handing
- right hand
- left hand
forend plate design
- Non-corroding stainless steel

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

Article identification
ES 22 FG BB FR 20 / 55 72 08 LS EST
ES 22 FG BB FR 20 / 55 72 08 RS EST
ES 22 FG WC FR 20 / 55 78 08 LS EST
ES 22 FG WC FR 20 / 55 78 08 RS EST
(ex store deliverable)

Classification code according to EN 12 209
2 M 4 0 0 B 1 B 0 2 0
Product line 22 PZ

Mortice lock
according to DIN 18251-1
Class 2
for internal doors

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

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 GR

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

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)

Tyto zámky můžete zakoupit u společnosti EfB, spol. s r.o.
www.obchod.luxusnikovani.cz

Tyto zámky můžete zakoupit u společnosti EfB, spol. s r.o.
www.obchod.luxusnikovani.cz
Product line 12

Mortice lock
according to DIN 18251-1
Class 3
for internal doors

Equipment:
· clamping follower steel with polyamide bearing shells
· latch hand bolt cast nickel-plated
· lock case all-around closed, galvanized

Options:
· flat forend plate edged
· forend plate width 18 / 24 mm
· forend plate steel lacquered
  - silver metallic
  - Hammer tone gold
  - White
· backset 65 mm
· keyhole type with one key
· keyhole mortice with one key
· Latch bolt with noise reduction
  (Consider delivery times)

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

Tyto zámky můžete zakoupit u společnosti EfB, spol. s r.o.
www.obchod.luxusnikovani.cz

Article identification
ES 12 PZW FR 20 / 55 72 08 LS EST
ES 12 PZW FR 20 / 55 72 08 RS EST
ES 12 WC FR 20 / 55 78 08 LS EST
ES 12 WC FR 20 / 55 78 08 RS EST
(ex store deliverable)

Example for article identification
ES 12 BB FR 20 / 55 72 08 RS EST
ES 12 PZW BB FR 20 / 55 72 08 LS EST

Mortice lock
Product line 12
- PZ double-turn with key operated spring bolt
  PZW
- WC type
  WC
  flat rounded forend plate
  FR
  forend plate width
  20 mm
  20
  backset sizes
  55 / 60 mm
  55
  centres
  - PZ 72 mm
  - WC 78 mm
  72
  78
  square follower size
  8 mm
  08
  handing
  - right hand
  - left hand
  RS
  LS
  forend plate design
  - special steel
  EST

Equipment:
· clamping follower steel with polyamide bearing shells
· latch hand bolt cast nickel-plated
· lock case all-around closed, galvanized
Locks for special applications

<table>
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<th>Page</th>
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<tr>
<td>Sliding doors</td>
<td>Product 72 GK / 76</td>
<td>45</td>
</tr>
</tbody>
</table>

* TGL standard corresponds to the earlier GDR standard for technical quality and delivery conditions.
Product line 15

Mortice lock
Mortice lock
according to DIN 18251-1
Class 3
for front entrance doors

Front door lock  HT
Product line 15  15
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
centres PZ 92 mm  92
square follower size 10 mm  10
handing - right hand  RS
- left hand  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

Example for article identification
HT 15 PZW FR 20 / 65 10 RS silb

Options:
- keyhole insert with one key
- other forend designs
  on request
## Product line 16

**Mortice lock**
for front entrance doors

according to TGL standard *

- elevated bolt

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

**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

Tyto zámky můžete zakoupit u společnosti EfB, spol. s r.o.
www.obchod.luxusnikovani.cz
Product line 23

**Mortice lock**
for flat entrance doors

according to **TGL** standard *

elevated bolt

---

**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
  **RS**
- left hand
  **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

---

**Classification code according to EN 12 209**

3 M 5 0 0 C 3 B C 2 0

---

**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

Tyto zámky můžete zakoupit u společnosti EfB, spol. s r.o.
www.obchod.luxusnikovani.cz
Product line 27

Mortice lock
according to DIN EN 1627
 WK 2 qualified
 for burglar proof doors

Equipment:
- clamping follower galvanized
- latch steel with cast head nickel-plated
- bolt high-strength refined
- special steel
- bolt head cast nickel-plated
- lock case all-around closed, galvanized
- sleeved bolt through fixing points

Options:
- special forend plate length 280 mm
- other forend designs on request

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

Example for article identification
ET 27 PZW FR 20 / 65 72 08 LS silb
Product line 56

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

Mortice lock
for moisture proof doors

Product line 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

handed
- right hand
  RS
- left hand
  LS

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

Equipment:
- clamping follower made of steel galva-
  nized
- 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
  FK
- Latch bolt with noise reduction
  FG
- backset 70 / 80 / 100 mm
  70
- square follower 9 mm
  09
- square follower 10 mm
  10
(Consider delivery times)

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.

Tyto zámky můžete zakuoupit u společnosti EfB, spol. s r.o.
www.obchod.luxusnikovani.cz

Tyto zámky můžete zakuoupit u společnosti EfB, spol. s r.o.
www.obchod.luxusnikovani.cz
Product line 71

Mortice lock for sliding doors
with hook bolt

Sliding door lock
Product line 71
- PZ
- keyhole
  with 1 folding ring key
  (cuts 1 / 3 / 7)
- WC type

flat rounded
forend plate

forend plate width
20 mm

backset size
55 mm

forend plate design
- stainless steel non-corroding,
  precision ground
  (hoop bolt nickel-plated)

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

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

Tyto zámky můžete zakoupit u společnosti EfB, spol. s r.o.
www.obchod.luxusnikovani.cz
Product line 72

Mortice sliding door lock
with hook bolt
and front handle

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

Classification code according to EN 12 209

<table>
<thead>
<tr>
<th>Classification code</th>
<th>ST 72 PZ FR 20 / 55 EST</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 C - 0 0 A 3 C A 2 0</td>
<td></td>
</tr>
<tr>
<td>3 C - 0 0 A 3 C D 2 0</td>
<td></td>
</tr>
<tr>
<td>3 C - 0 0 A 3 C G 2 0</td>
<td></td>
</tr>
</tbody>
</table>

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

Classification code according to EN 12 209

<table>
<thead>
<tr>
<th>Classification code</th>
<th>ST 72 BBS FR 20 / 55 EST</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 C - 0 0 A 3 C A 2 0</td>
<td></td>
</tr>
<tr>
<td>3 C - 0 0 A 3 C D 2 0</td>
<td></td>
</tr>
<tr>
<td>3 C - 0 0 A 3 C G 2 0</td>
<td></td>
</tr>
</tbody>
</table>

Article identification

<table>
<thead>
<tr>
<th>Article identification</th>
<th>ST 72 PZ FR 20 / 55 EST</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ST 72 BBS FR 20 / 55 EST</td>
</tr>
<tr>
<td></td>
<td>ST 72 WC FR 20 / 55 08 EST</td>
</tr>
</tbody>
</table>

Tyto zámky můžete zakoupit u společnosti EfB, spol. s r.o.
www.obchod.luxusnikovani.cz

Tyto zámky můžete zakoupit u společnosti EfB, spol. s r.o.
www.obchod.luxusnikovani.cz
Product line 72 GK / 76

**Strike case**
for sliding door lock, product line 72 GK

**Sliding door front handle**
for sliding door lock, product line 76

---

**Strike case**
- Product line 72
- Strike case
- flat rounded forend plate
- forend plate width 20 mm
- forend plate design - stainless steel non-corroding, precision ground

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

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

---

**Article identification**
- strike case
  - ST 72 GK FR 20 EST
- front handle
  - ST 76 SG FR 20 EST

Tyto zámky můžete zakoupit u společnosti EfB, spol. s r.o.
www.obchod.luxusnikovani.cz
Tyto zámky můžete zakoupit u společnosti EFB, spol. s r.o.
www.obchod.luxusnikovani.cz
SSF guarantees that the mortice locks for hollow profiled section doors meet the guidelines of DIN 18251-2, Class 3.

SSF locks for hollow profiled section doors have been tested and certified according to the European standard EN 12209 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 profiled 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 profiled 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**

<table>
<thead>
<tr>
<th>Part Description</th>
<th>Code/Option</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lock for hollow profile section doors</td>
<td>RR</td>
</tr>
<tr>
<td>Product line 01</td>
<td>01</td>
</tr>
<tr>
<td>PZ single turn with key operated spring bolt</td>
<td>PZW</td>
</tr>
<tr>
<td>Flat square cornered forend plate</td>
<td>FK</td>
</tr>
<tr>
<td>Forend plate width</td>
<td>24</td>
</tr>
<tr>
<td>Backset sizes</td>
<td>35</td>
</tr>
<tr>
<td>Centres</td>
<td>92</td>
</tr>
<tr>
<td>Square follower size</td>
<td>08</td>
</tr>
<tr>
<td>Handing</td>
<td>Reversible</td>
</tr>
<tr>
<td>Forend plate design</td>
<td>Steel satin chromatized</td>
</tr>
</tbody>
</table>

**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 deadbolt 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

---

Tyto zámky můžete zakoupit u společnosti EfB, spol. s r.o.
www.obchod.luxusnikovani.cz
Product line 02

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

Dead bolt protection 21 mm

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 chromatized 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

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

Example for article identification
RR 02 PZW FK 24 / 35 92 08 MC

Tyto zámky můžete zakoupit u společnosti EfB, spol. s r.o.
www.obchod.luxusnikovani.cz
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

Lock for hollow profile section doors
 Product line 02 (APE)
 PZ single turn with key operated
 spring bolt
g type APE (passable from the outside by
 change function)

Dead bolt protection 21 mm

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

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

Example for article identification
RR 02 APE FK 24 / 35 92 09 EST

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

Tyto zámky můžete zakoupit u společnosti EfB, spol. s r.o.
www.obchod.luxusnikovani.cz
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

<table>
<thead>
<tr>
<th>Classification code according to EN 179</th>
<th>Lock for hollow profile section doors</th>
<th>RR</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 7 6 0 1 4 4 1 A B</td>
<td>Product line 02 (APB)</td>
<td>02</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Classification code according to EN 1125</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 7 6 0 1 4 2 1 A B</td>
</tr>
</tbody>
</table>

Lock for hollow profile section doors RR

PZ single turn panic function APB APB

type

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 RS
- left hand 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

Tyto zámky můžete zakoupit u společnosti EfB, spol. s r.o.
www.obchod.luxusnikovani.cz
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**

锁 for hollow profile section doors

**Lock for hollow profile section doors**

**Product line 02 (APD)**

**Product line 02 (APD)**

**PZ single turn panic function APD**

**flat square cornered forend plate**

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
- RS
- left hand
- 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

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

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

Example for article identification
RR 02 APD FK 24 / 35 92 09 RS EST

---

Tyto zámky můžete zakoupit u společnosti EfB, spol. s r.o.
www.obchod.luxusnikovani.cz
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

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 chromatized 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

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

Example for article identification
RR 02 RoF FK 24 / 35 92 MC

Tyto zámky můžete zakoupit u společnosti EfB, spol. s r.o.
www.obchod.luxusnikovani.cz
Product line 02 FS

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

![Diagram of latch](image)

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

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

**Example for article identification**
RR 02 FS FK 24 / 35 08 MC

Tyto zámky můžete zakoupit u společnosti EfB, spol. s r.o.
www.obchod.luxusnikovani.cz
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 chromatized  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 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

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

**Example for article identification**
RR 02 FSk FK 24 / 35 08 MC
Product line 02 RS

**Mortice dead lock**
according to DIN 18251-2
for hollow profile section doors

**Dead bolt protection 21 mm**

---

<table>
<thead>
<tr>
<th>Lock for hollow profile section doors</th>
<th>RR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product line 02</td>
<td>02</td>
</tr>
<tr>
<td>mortice dead lock</td>
<td>RS</td>
</tr>
<tr>
<td>flat square cornered forend plate</td>
<td>FK</td>
</tr>
<tr>
<td>forend plate width</td>
<td></td>
</tr>
<tr>
<td>- 16 / 24 mm</td>
<td>24</td>
</tr>
<tr>
<td>backset sizes</td>
<td></td>
</tr>
<tr>
<td>- 35 / 40 / 45 mm</td>
<td>35</td>
</tr>
<tr>
<td>forend plate design</td>
<td></td>
</tr>
<tr>
<td>- steel satin chromatized</td>
<td>MC</td>
</tr>
</tbody>
</table>

**Classification code according to EN 12 209**

3 - 5 0 0 C 3 B A 0 0

---

**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

**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

---

**Example for article identification**

RR 02 RS FK 24 / 35 MC

---

Tyto zámky můžete zakoupit u společnosti EfB, spol. s r.o.
www.obchod.luxusnikovani.cz
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 doorsRR
Product line 0202
mortice dead lockRSk
flat square cornered forend plateFK
forend plate width
- 16 / 24 mm24
backset sizes
- 35 / 40 / 45 mm35
forend plate design
- steel satin chromatizedMC

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

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

Tyto zámky můžete zakoupit u společnosti EfB, spol. s r.o.
www.obchod.luxusnikovani.cz
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**

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 chromatized MC

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

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

**Example for article identification**
RR 02 SHR FK 24 / 35 MC

---

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

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

Tyto zámky můžete zakoupit u společnosti EfB, spol. s r.o.
www.obchod.luxusnikovani.cz
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
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

<table>
<thead>
<tr>
<th>Art. no.</th>
<th>length</th>
<th>Flange length</th>
</tr>
</thead>
<tbody>
<tr>
<td>4111</td>
<td>300 mm</td>
<td>21x30 mm</td>
</tr>
<tr>
<td>4112</td>
<td>300 mm</td>
<td>21x25 mm</td>
</tr>
<tr>
<td>4113</td>
<td>300 mm</td>
<td>25x30 mm</td>
</tr>
<tr>
<td>4101</td>
<td>500 mm</td>
<td>21x30 mm</td>
</tr>
</tbody>
</table>

Angle mortice plate reinforced with bore holes arranged in parallel

Design:
- steel 3 mm, silver metallic
- reversible for right and left hand application

<table>
<thead>
<tr>
<th>Art. no.</th>
<th>length</th>
<th>Flange length</th>
</tr>
</thead>
<tbody>
<tr>
<td>4141</td>
<td>300 mm</td>
<td>21x30 mm</td>
</tr>
<tr>
<td>4143</td>
<td>300 mm</td>
<td>25x30 mm</td>
</tr>
<tr>
<td>4129</td>
<td>500 mm</td>
<td>21x30 mm</td>
</tr>
</tbody>
</table>

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

Reinforced angle mortice plates according to TGL standard on request

other materials or finishes on request

Tyto zámky můžete zakoupit u společnosti EfB, spol. s r.o.
www.obchod.luxusnikovani.cz
**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
Mortice 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)

Mortice plate for locks 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)

Mortice 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

<table>
<thead>
<tr>
<th>Art. no.</th>
<th>mounting angle</th>
<th>insert</th>
</tr>
</thead>
<tbody>
<tr>
<td>4003</td>
<td>without</td>
<td>single turn</td>
</tr>
<tr>
<td>4010</td>
<td>2 loose</td>
<td>single turn</td>
</tr>
<tr>
<td>4008</td>
<td>without</td>
<td>double turn</td>
</tr>
<tr>
<td>4011</td>
<td>2 loose</td>
<td>double turn</td>
</tr>
</tbody>
</table>

### 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

<table>
<thead>
<tr>
<th>Art. no.</th>
<th>mounting angle</th>
<th>insert</th>
</tr>
</thead>
<tbody>
<tr>
<td>4051</td>
<td>without</td>
<td>single turn</td>
</tr>
<tr>
<td>4050</td>
<td>2 loose</td>
<td>single turn</td>
</tr>
<tr>
<td>4062</td>
<td>without</td>
<td>double turn</td>
</tr>
<tr>
<td>4063</td>
<td>2 loose</td>
<td>double turn</td>
</tr>
</tbody>
</table>

Other materials or finishes on request.
Angle mortice plate
with nylon insert

Design:
- steel 1.5 mm, silver metallic
- nylon inserts grey
- single turn
- double turn
- with 2 loose mounting angles
- reversible for right and left hand application

edge radius
- 2 / 3.5 mm

bore hole and angle centres
- 8 / 49.8 mm
- 10 / 44.3 mm

Art. no.  Radius  Abstand  Type
4056  2  8 / 49.8  single turn
     2  8 / 49.8  double turn
4068  2  10 / 44.3  single turn
     2  10 / 44.3  double turn
4057  3,5  8 / 49.8  single turn
     3,5  8 / 49.8  double
4069  3,5  10 / 44.3  single turn
     3,5  10 / 44.3  double turn

other materials or finishes on request

Tyto zámky můžete zakoupit u společnosti EfB, spol. s r.o.
www.obchod.luxusnikovani.cz
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
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

- other materials or finishes on request

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

Tyto zámky můžete zakoupit u společnosti EfB, spol. s r.o.
www.obchod.luxusnikovani.cz

Tyto zámky můžete zakoupit u společnosti EfB, spol. s r.o.
www.obchod.luxusnikovani.cz
Tyto zámky můžete zakoupit u společnosti EfB, spol. s r.o.
www.obchod.luxusnikovani.cz
## Accessories

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<tr>
<th>Product Description</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Keyhole insert zinc diecasting</td>
<td>72</td>
</tr>
<tr>
<td>Keyhole insert nylon</td>
<td>73</td>
</tr>
<tr>
<td>Key and cuts</td>
<td>74</td>
</tr>
</tbody>
</table>

Tyto zámky můžete zakoupit u společnosti EfB, spol. s r.o.  
www.obchod.luxusnikovani.cz
Keyhole insert for euro profile-lock zinc

Warded insert
for PZ mortice locks

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

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.

Tyto zámky můžete zakoupit u společnosti EfB, spol. s r.o.
www.obchod.luxusnikovani.cz
Keyhole insert for euro profile-lock nylon

**Warded mortice**
for PZ mortice locks

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

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.

Tyto zámky můžete zakoupit u společnosti EfB, spol. s r.o. www.obchod.luxusnikovani.cz
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.

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)
Notes

- Explanation of the article description: 76
- Lock design: 77
- Technical specifications: 78
- Mortice plates / front plates: 81
- Where to find SSF: 82
- Marketing organization national: 84
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- Product liability: 94
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- Index of headings: 98
# Explanation of the article identification

<table>
<thead>
<tr>
<th>Variant</th>
<th>001</th>
<th>basic variant</th>
</tr>
</thead>
<tbody>
<tr>
<td>Material / forend plate</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MC</td>
<td>steel satin chromatized</td>
<td></td>
</tr>
<tr>
<td>EST</td>
<td>stainless steel non-corroding precision ground</td>
<td></td>
</tr>
<tr>
<td>silb</td>
<td>Steel silver metallic</td>
<td></td>
</tr>
<tr>
<td>vz</td>
<td>nickel</td>
<td></td>
</tr>
<tr>
<td>DIN - Handing</td>
<td></td>
<td></td>
</tr>
<tr>
<td>left - LS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>right - RS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>no indication if left and right hand applications possible</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Square follower size</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8 / 9 / 10 mm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Centres</td>
<td></td>
<td></td>
</tr>
<tr>
<td>72 / 78 / 92 mm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Backset</td>
<td></td>
<td></td>
</tr>
<tr>
<td>35</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Forend plate width</td>
<td></td>
<td></td>
</tr>
<tr>
<td>16</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Lock

- **ES**: Mortice lock
- **RR**: lock for hollow profile section doors
- **FH**: fireproof lock
- **GT**: glass door lock
- **HT**: front door entrance lock
- **ET**: burglar proof doors

### Type group, e.g.

- **01**: RR product line 1
- **02**: RR product line 2
- **03**: RR product line 3
- **10**: product line 10 (lock type 1000)
- **12**: product line 12 (lock type 1200)

### Design

- **PZ**: profile cylinder
- **PZW**: profile cylinder + change
- **BB**: warded
- **PZW/BB**: PZW with keyhole insert
- **WC**: bathroom / WC
- **APE**: panic transformer change function E
- **APB**: panic switchable function B
- **APD**: panic passage function D
- **APK**: combination panic + automatic locking
- **FS**: latch lock
- **RS**: dead lock
- **RoF**: lock with roller latch
- **SHR**: swivel hook dead lock

### Forend plate design

- **UK**: U-shaped forend plate edged without punch
- **UKS**: U-shaped forend plate edged with punch
- **FR**: flat forend plate round without punch
- **FRS**: flat forend plate round with punch
- **FK**: flat forend plate edged without punch
- **FKS**: flat forend plate edged with punch
Lock assembly
Technical specifications

Directions:

DIN left inwards:
- Outside
- Inside

DIN right inwards:
- Outside
- Inside

DIN left outwards:
- 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.”

You can buy these locks from the company EfB, spol. s r.o.
www.obchod.luxusnikovani.cz
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

Tyto zámky můžete zakoupit u společnosti EfB, spol. s r.o.
www.obchod.luxusnikovani.cz
Technical specifications

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. 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.

Tyto zámky můžete zakoupit u společnosti EfB, spol. s r.o.
www.obchod.luxusnikovani.cz
## Forend plate designs

At SSF, all lock forend plates are made and offered of the materials

<table>
<thead>
<tr>
<th>Material</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Steel</td>
<td>material ST37</td>
</tr>
<tr>
<td></td>
<td>non-corroding special steel</td>
</tr>
<tr>
<td></td>
<td>material 1.4016</td>
</tr>
<tr>
<td></td>
<td>material 1.4301</td>
</tr>
<tr>
<td>Brass</td>
<td>material CuZN37</td>
</tr>
</tbody>
</table>

**Stainless steel non-corroding,** precision ground - satin

**Brass polished**

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

**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.

**Stainless steel non-corroding,** precision ground - satin

**Stainless steel non-corroding, polished**

**Brass polished**

Forend plates made of brass are

- polished
- precision ground.

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 02 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 spindle must not be driven by force through the lock follower.

The leaf must not be bored through in the lock area when the lock is installed.

The door leaf must not be supported at the handle.

Handle and key must not be operated simultaneously.

The lock bolt must not be prelocked with the door being open.

Double wing doors must not be opened by force via the fixed leave.

The panic handle must not be continuously operated, only in case of danger.

A key must never be left in the panic lock.

Locks are to be lubricated at least once a year (oil that does not secrete resin).

Tyto zámky můžete zakoupit u společnosti EfB, spol. s r.o.
www.obchod.luxusnikovani.cz
As soon as marks of force are visible the lock must be replaced.

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

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).

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.
## Standards

Without laying any claim to exhaustiveness, set out below is a selection of German industrial standards (DIN) standards relevant for doors and windows.

<table>
<thead>
<tr>
<th>DIN 107</th>
<th>Building construction; identification of right and left side.</th>
</tr>
</thead>
<tbody>
<tr>
<td>DIN 4102, part 5</td>
<td>Fire behaviour of building materials and components; fire barriers, barriers in lift wells and glazings resistant against fire, definitions, requirements and testing</td>
</tr>
<tr>
<td>DIN 4102, part 13</td>
<td>Fire behaviour of building materials and components; glazings resistant against fire, concepts, requirements and testing</td>
</tr>
<tr>
<td>DIN 4102, part 18</td>
<td>Fire behaviour of building materials and components; fire barriers, verification of automatic closure (continuous performance test)</td>
</tr>
<tr>
<td>DIN 1080, part 1</td>
<td>Terms, symbols and units used in civil engineering, principles</td>
</tr>
<tr>
<td>DIN 18 082, part 1</td>
<td>Fire barriers, steel doors T 30-1, construction type</td>
</tr>
<tr>
<td>DIN 18 095, part 1</td>
<td>Doors; smoke control doors; concepts and requirements</td>
</tr>
<tr>
<td>DIN 18 095, part 2</td>
<td>Doors; smoke control doors, type testing for durability and leakage</td>
</tr>
<tr>
<td>DIN 18 100</td>
<td>Doors; wall openings for doors; dimensions according to DIN 4172</td>
</tr>
<tr>
<td>DIN 18 101</td>
<td>Doors; doors for residential buildings; sizes of door leaves, position of hinges and lock; interdependence of dimensions</td>
</tr>
<tr>
<td>DIN 18 111, part 1</td>
<td>Door frames; steel frames, standard door frames for rebated doors</td>
</tr>
<tr>
<td>DIN 18250</td>
<td>Mortice locks for fire doors and smoke control doors</td>
</tr>
</tbody>
</table>

Case of fire. The use of locks according to this DIN standard is controlled in the DIN standards or the General Site Supervision Authorizations of fire resistant closures. (see e.g. DIN 4102-5, DIN 4102-18)

<table>
<thead>
<tr>
<th>DIN 18251-1 (as per July 2002)</th>
<th>Mortice locks for rebated doors</th>
</tr>
</thead>
</table>

Range of application: This standard defines terms, dimensions, requirements, tests and the marking for mortice locks with latch and/or bolt, mortice locks with automatic blocking included, that are suitable for the installation in rebated doors according to DIN 18101.

<table>
<thead>
<tr>
<th>DIN 18251-2 (as per November 2002)</th>
<th>Mortice locks for hollow profiled section doors</th>
</tr>
</thead>
</table>

Range of application: This standard defines terms, dimensions, requirements, tests and the marking for mortice locks with latch and/or bolt, mortice locks with automatic blocking included, that are suitable for the installation in hollow profiled section doors.
DIN 18251-3
(as per November 2002)
Mortice locks
as multiple lockings
Range of application:
This standard defines concepts, dimensions, requirements, testing and labelling for mortice locks as multiple lockings with latch and/or bolt, multiple lockings with automatic blocking included.

DIN 18 252
Lock cylinders for door locks; definitions, identifications

DIN 18 254
Lock cylinders for door locks; dimensions, requirements, tests for profile cylinders with single-row pin levers

DIN 18 255
Building hardware; door handles, door plates and door rosettes – definitions, dimensions, requirements

DIN 18 257
Building hardware; security door plates – definitions, dimensions, requirements, tests and labelling

DIN 18 273
Building hardware; lock furniture
for fire doors and smoke control doors – definitions, dimensions, requirements and testing

DIN 18 357
VOB construction contract procedures
Part C: General technical specifications for building works
(ATV) mounting of furniture

DIN 18 361
VOB construction contract procedures
Part C: General technical specifications for building works, glazing

DIN EN 179
Emergency exit closures for lever handles panic push pads.
Requirements and test procedures

DIN EN 1125
Emergency exit closures for lever handles panic push pads.
Requirements and test procedures

DIN EN 1303
Lock cylinders for locks
Requirements and test procedures

DIN EN 1634
Fire resistance tests for doors and closure units

DIN EN 1670
Corrosion behaviour – requirements and test methods

DIN EN 1906
Building hardware, handles and door knobs – requirements and test methods

DIN EN 12209
(as per March 2004)
Locks and building hardware – locks – mechanically operated locks and striking plates – Requirements and test methods.
The European standard EN 12209:2003 has the status of a German standard. The dimensions of locks are defined in DIN 18250 and in the standards of the series DIN 18251.

DIN ENV 1627 to 1630
(as per 1999)
Windows, doors, terminations – burglar proofness – requirements and classifications prestandard
Lock classes according to DIN 18 251-1

Class 1
Locks for light internal doors
- warded or profile locks
- cap fixed twice
- furniture support moment min. 0.8 Nm
- bolt engagement depth 10 mm or key operated spring bolt change
- backset 55 mm

Class 2
Locks for internal doors
- warded, lever, cylinder or bath door locks
- cap min. double-fixed
- backset 55 mm
- requirements Table 3

Class 3
Locks for flat entry doors and public buildings
- cylinder locks
- cap min. 3-fold fixed
- requirements Table 3

Class 4
Cylinder locks for standard doors with burglary proofness
- requirements Table 3

Class 5
Cylinder locks for standard doors with increased burglary proofness
- requirements Table 3

Table 3
(Class 1 does not apply for DIN 18251-3)

<table>
<thead>
<tr>
<th>Class</th>
<th>Latch spring force N</th>
<th>Handle support moment Nm</th>
<th>Handle moment Nm</th>
<th>Static latch load kN</th>
<th>Static bolt load kN</th>
<th>Bolt counterforce kN</th>
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<tbody>
<tr>
<td>1</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>2</td>
<td>2.5</td>
<td>4.0</td>
<td>1.2±0.4</td>
<td>40</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>3</td>
<td>2.5</td>
<td>4.0</td>
<td>1.5±0.4</td>
<td>60</td>
<td>3</td>
<td>6</td>
</tr>
<tr>
<td>4</td>
<td>2.5</td>
<td>4.0</td>
<td>1.5±0.4</td>
<td>50</td>
<td>5</td>
<td>10</td>
</tr>
<tr>
<td>5</td>
<td>2.5</td>
<td>4.0</td>
<td>1.5±0.4</td>
<td>50</td>
<td>5</td>
<td>10</td>
</tr>
</tbody>
</table>

Classification code according to EN 12 209

1. Category of use (only three classes have been defined)
   - Class 1: Operation by persons with high motivation for a careful use.
     Risk of misuse is low, e.g. internal doors of residential buildings.
   - Class 2: Operation by persons with some motivation for a careful use.
     Certain probability of misuse exists, e.g. office doors.
   - Class 3: Operation by persons with low motivation for careful use.
     The probability of misuse is high, e.g. doors in public buildings.

2. Durability
   - Class A: 50,000 test cycles no load of the latch
   - Class B: 100,000 test cycles no load of the latch
   - Class C: 200,000 test cycles no load of the latch
   - Class F: 50,000 test cycles load of the latch of 10N
   - Class G: 100,000 test cycles load of the latch of 10N
   - Class H: 200,000 test cycles load of the latch of 10N
   - Class L: 100,000 test cycles load of the latch of 25N
   - Class M: 200,000 test cycles load of the latch of 25N
   - Class R: 100,000 test cycles load of the latch of 50N
   - Class S: 200,000 test cycles load of the latch of 50N
   - Class W: 100,000 test cycles load of the latch of 100N
   - Class X: 200,000 test cycles load of the latch of 100N

3. Door dimensions and closing force
   - Class 1: up to 100 kg max. 50N closing force
   - Class 2: up to 200 kg max. 50N closing force
   - Class 3: more than 200 kg or defined by the manufacturer; max. 50N closing force
   - Class 4: up to 200 kg max. 25N closing force
   - Class 5: up to 100 kg max. 25N closing force
   - Class 6: more than 200 kg or defined by the manufacturer; max. 25N closing force
   - Class 7: up to 100 kg max. 15N closing force
   - Class 8: up to 200 kg max. 15N closing force
   - Class 9: more than 200 kg or defined by the manufacturer; max. 15N closing force

4. Use for fire / smoke control doors
   - Class 0: not permissible for the installation in fire and smoke control doors
   - Class 1: suitable for the installation in fire and smoke control doors, subject to the satisfying assessment of the contribution of the lock to the resistance of specific fire / smoke control doors

5. Safety
   - Class 0: no safety requirements

6. Corrosion resistance
   - Class 0: no defined corrosion resistance, no temperature requirement
   - Class A: low corrosion resistance, no temperature requirement
   - Class B: medium corrosion resistance, no temperature requirement
   - Class C: high corrosion resistance, no temperature requirement
   - Class D: very high corrosion resistance, temperature requirement -20°C - +80°C
   - Class E: medium corrosion resistance, temperature requirement -20°C - +80°C
   - Class F: high corrosion resistance, temperature requirement -20°C - +80°C
   - Class G: very high corrosion resistance, temperature requirement -20°C - +80°C

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7. Security and drill resistance

Class 1: Minimum protection effect and no tapping resistance
Class 2: Low protection effect and no tapping resistance
Class 3: Medium protection effect and no tapping resistance
Class 4: High protection effect and no tapping resistance
Class 5: High protection effect with tapping resistance
Class 6: Very high protection effect and no tapping resistance
Class 7: Very high protection effect with tapping resistance

8. Field of door application

15 Classes have been defined for door-related fields of application, as shown in the table below.

<table>
<thead>
<tr>
<th>Class</th>
<th>Type</th>
<th>Application 1</th>
<th>Application 2</th>
<th>Application 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>mortice lock</td>
<td>unrestricted</td>
<td></td>
<td></td>
</tr>
<tr>
<td>B</td>
<td>mortice lock</td>
<td>hinged door</td>
<td></td>
<td></td>
</tr>
<tr>
<td>C</td>
<td>mortice lock</td>
<td>sliding door</td>
<td></td>
<td></td>
</tr>
<tr>
<td>D</td>
<td>rim lock</td>
<td>unrestricted</td>
<td></td>
<td></td>
</tr>
<tr>
<td>E</td>
<td>rim lock</td>
<td>hinged door</td>
<td></td>
<td></td>
</tr>
<tr>
<td>F</td>
<td>rim lock</td>
<td>sliding door</td>
<td></td>
<td></td>
</tr>
<tr>
<td>G</td>
<td>lock for drilled intake</td>
<td>unrestricted</td>
<td></td>
<td></td>
</tr>
<tr>
<td>H</td>
<td>mortice lock</td>
<td>hinged door</td>
<td>supported</td>
<td></td>
</tr>
<tr>
<td>J</td>
<td>rim lock</td>
<td>hinged door</td>
<td>inwards</td>
<td></td>
</tr>
<tr>
<td>K</td>
<td>mortice lock</td>
<td>hinged door</td>
<td>locked from the inside</td>
<td></td>
</tr>
<tr>
<td>L</td>
<td>mortice lock</td>
<td>sliding door</td>
<td>locked from the inside</td>
<td></td>
</tr>
<tr>
<td>M</td>
<td>rim lock</td>
<td>hinged door</td>
<td>locked from the inside</td>
<td></td>
</tr>
<tr>
<td>N</td>
<td>rim lock</td>
<td>sliding door</td>
<td>locked from the inside</td>
<td></td>
</tr>
<tr>
<td>P</td>
<td>mortice lock</td>
<td>hinged door</td>
<td>supported</td>
<td>locked from the inside</td>
</tr>
<tr>
<td>R</td>
<td>rim lock</td>
<td>hinged door</td>
<td>inwards</td>
<td>locked from the inside</td>
</tr>
</tbody>
</table>

9. Type of key operation and locking

Class 0: not applicable
Class A: cylinder lock automatic locking
Class B: cylinder lock manual locking
Class C: cylinder lock manual locking with interim locking
Class D: lever lock automatic locking
Class E: lever lock manual locking with interim locking
Class F: lever lock manual locking key operation
Class G: lock without key operation
Class H: lock without key operation

10. Type of spindle

Class 0: lock without follower
Class 1: lock for knob operation or operation of a handle with supporting spring
Class 2: lock for operation of a handle without supporting spring
Class 3: lock for operation of a handle with high load and strong supporting spring
Class 4: lock for operation of a handle defined by the manufacturer with high load and strong supporting spring

11. Key identification requirements

Class 0: no requirements
Class A: at least three tumblers
Class B: at least five tumblers
Class C: at least five tumblers; increased number of effective locking diversities
Class D: at least six tumblers
Class E: at least six tumblers; increased number of effective locking diversities
Class F: at least seven tumblers
Class G: at least seven tumblers; increased number of effective locking diversities
Class H: at least eight tumblers; increased number of effective locking diversities

CE mark
If an appropriate test has been performed according to EN 12 209, the conditions of Appendix ZA of the standard are fulfilled and the EC Certificate of Conformity has been received, the manufacturer will be entitled to provide the relevant products with the CE mark.

Example for the CE mark for an SSF lock of the product line 55.
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 expressively 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 expressively accepted in writing, will not be applicable.

2. Offers

Our offers are subject to confirmation if they are not delivered expressively 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 no 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 Vienna Convention) shall be excluded.

11. Final provision

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

### Object doors

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<th>Page</th>
</tr>
</thead>
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<tr>
<td>50</td>
<td>Centre type class 3</td>
<td>14</td>
</tr>
<tr>
<td>51</td>
<td>Centre type class</td>
<td>15</td>
</tr>
<tr>
<td>52</td>
<td>Centre type class 5</td>
<td>16</td>
</tr>
<tr>
<td>53</td>
<td>Rebated door Class 3</td>
<td>17</td>
</tr>
<tr>
<td>54</td>
<td>Rebated door class 4</td>
<td>18</td>
</tr>
<tr>
<td>55</td>
<td>Rebated door class 5</td>
<td>19</td>
</tr>
<tr>
<td>55 KF</td>
<td>Crank latch Class 5</td>
<td>20</td>
</tr>
<tr>
<td>55</td>
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<td>21</td>
</tr>
<tr>
<td>55</td>
<td>Burglar proof WK 2</td>
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</table>

### Fire and panic doors

<table>
<thead>
<tr>
<th>Product line</th>
<th>Class</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>20</td>
<td>Fire proof Class 3</td>
<td>25</td>
</tr>
<tr>
<td>20</td>
<td>Burglar proof WK 2</td>
<td>26</td>
</tr>
<tr>
<td>20 APE</td>
<td>Transformer change function E</td>
<td>27</td>
</tr>
<tr>
<td>20 APD</td>
<td>Passage function D</td>
<td>28</td>
</tr>
<tr>
<td>20</td>
<td>Panic and automatic locking 9 mm</td>
<td>29</td>
</tr>
<tr>
<td>21 APK</td>
<td>Panic and automatic locking 8 mm</td>
<td>30</td>
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</table>

### Inner doors

<table>
<thead>
<tr>
<th>Product line</th>
<th>Class</th>
<th>Page</th>
</tr>
</thead>
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<tr>
<td>10</td>
<td>Class 1</td>
<td>32</td>
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<tr>
<td>11</td>
<td>Class 2</td>
<td>33</td>
</tr>
<tr>
<td>22</td>
<td>Class 2 noise reduced/ stainless steel front plate</td>
<td>34</td>
</tr>
<tr>
<td>22 PZ</td>
<td>Class 2 PZ</td>
<td>35</td>
</tr>
<tr>
<td>12</td>
<td>Class 3</td>
<td>36</td>
</tr>
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</table>

### Special use

<table>
<thead>
<tr>
<th>Product line</th>
<th>Class</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>15</td>
<td>Front door PZ 92</td>
<td>38</td>
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<tr>
<td>16</td>
<td>Front door according to TGL standard</td>
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<tr>
<td>23</td>
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</tr>
<tr>
<td>27</td>
<td>Burglar proof doors</td>
<td>41</td>
</tr>
<tr>
<td>56</td>
<td>Moisture proof doors</td>
<td>42</td>
</tr>
<tr>
<td>71</td>
<td>Sliding doors</td>
<td>43</td>
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<tr>
<td>72</td>
<td>Sliding doors</td>
<td>44</td>
</tr>
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<td>72 GK / 76</td>
<td>Sliding doors</td>
<td>45</td>
</tr>
</tbody>
</table>

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### Hollow profiled doors

<table>
<thead>
<tr>
<th>Product line</th>
<th>Description</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product line 01</td>
<td>Class 3 bolt engagement depth 15 mm</td>
<td>48</td>
</tr>
<tr>
<td>Product line 02</td>
<td>Class 3 bolt engagement depth 21 mm</td>
<td>49</td>
</tr>
<tr>
<td>Product line 02 APE</td>
<td>Transformer change function E</td>
<td>50</td>
</tr>
<tr>
<td>Product line 02 APB</td>
<td>Switchable function B</td>
<td>51</td>
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<tr>
<td>Product line 02 APD</td>
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<td>52</td>
</tr>
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<td>Product line 02 Rof</td>
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<td>Product line 02 FS</td>
<td>Latch lock</td>
<td>54</td>
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