574  Design + Security
576  Security fittings
589  Security fittings for narrow stile doors
591  Security roses
594  Security rose, flush fit
Is your front door open to new experiences? Anyone who thinks security hardware invariably comprises a knob and backplate has yet to encounter FSB purism at its most alluring: FSB 73 7360 is a sculpture of folded Stainless Steel plate 5 mm thick that boasts a most cohesive visual identity. Gone are the days when the best design was reserved for the highest security rating. FSB has turned the tables by making Security Classes 2 and 4 compatible with all security fittings in its “Design + Security” series – or, in wholly democratic vein, by opening up the technology of test winner FSB 73 7376 to all pockets.
<table>
<thead>
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<tbody>
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- **New items**
Criminal statistics indicate that doors and windows are popular means of gaining access to buildings. This is why police advice centres and insurance companies recommend adequately securing doors and windows.

The sector has adapted to market requirements. Standards have been developed to help all concerned find their bearings:

The German Industry Standard for burglar-proof windows, doors and additional locks (DIN 18103) and the German Industry Standard for building hardware and security hardware, terms, dimensions, requirements, tests and labels (DIN 18257).

EN 1906 and DIN EN 1627-1630 were drafted in tandem.

FSB’s security hardware range in the “Design + Security” series saves architects, interior designers, carpenters and consumers from having to deal with the complicated issue of security technology. A decision is first made on the grounds of taste (design) and then of reason (the need for security), which is precisely why we call the scheme “Design + Security”. All anyone opting for this solution has to do after choosing their design is decide whether Class 2 or Class 4 technical security is right for them. FSB then installs the security technology desired into the relevant design package.

Gone are the days when the lowest security class meant having to make do with the most basic design, while the best design was reserved for the highest class. FSB has rejigged the process. Only once the design has been chosen is it time to bring in the technical expert and then choose the desired security rating.

FSB’s design offering is laid out clearly and comprehensively on the pages that follow. Browse through at your leisure, then choose whichever design takes your fancy. Next to your design you will find a set of technical questions; all you have to do is tick the ones that apply to you. It couldn’t be simpler. For the technically inquisitive, we provide the low-down on the two security classes overleaf.

Stiftung Warentest, Germany’s product testing organisation, thoroughly checked door locks for its “test” magazine. The test items included FSB 73 7376. This was accorded a dazzling total rating of 1.8, becoming the overall winner of the backplates group (Security Class 2/ES1-L-ZA). The testers felt it was important that lock, lock cylinder and backplate form a single unit. The latter component makes it more difficult to unscrew, break, pull off or smash through the lock cylinder. It also has to be firmly screwed from the inside and made of a solid material. None of which is a problem for FSB 73 7376: the level of burglary resistance resulting from these factors won it a rating of 1.4. What makes this result even more remarkable is that our Security Class 2 fitting achieved even better results than another company’s design with a Class 3 security rating.

The security credentials of FSB 73 7376 are shared by all other models in the “Design + Security” range owing to the modular nature and standardised laminar configuration of Design+Security fittings.

FSB security hardware is supplied for the following door thicknesses as standard:

- Room doors 40–42 mm
- House doors 67–69 mm
- FS doors 53–57 mm

Approved round and square roses with an ES 1 security rating are likewise available for entrance doors equipped with a pull and an armoured rose.

- round armoured roses 12.5 to 16.5 mm high of an open-keyway type
- round armoured roses 12.5 to 16.5 mm high with cylinder guards (ZA)
- round armoured roses 12.5 mm high with cylinder guards (ZA), prepared for flush fitting

Bandit-resistant builder’s hardware (not tested to DIN 18257/EN 1906) is designed in such a manner as to put potential burglars off altogether or at the very least to considerably hold them up. FSB supplies the following product solutions of this kind:

- rectangular and oval roses 16 mm high with cylinder guards (ZA)
- rectangular and oval adhesive and clip-on roses 3, 7 and 9 mm high
With its new 737360 security fitting, FSB has grafted a wholly new design concept onto its proven security technology.

The security hardware blueprint tabled by FSB’s in-house designer Hartmut Weise exudes a radical purism quite at odds with received formal notions: he uses stainless steel 5 mm thick to create a sculpture of folded surfaces that makes no concessions whatsoever to the door.

Security Class 2 as per EN 1906
open-keyway type
ES-1 K    DIN 18257 reg. no. 4X078
ES-1 L    DIN 18257 reg. no. 4X076
Strength of backplates 10 kN
max. flexion ≤ 5 mm
Tensile strength of fixing 15 kN
max. deformation ≤ 5 mm
Drill resistance 30 s
Chisel test resistance 3 strikes

Security Class 2 as per EN 1906
with cylinder guard (ZA)
ES-1 K-ZA  DIN 18257 reg. no. 4X077
ES-1 L-ZA  DIN 18257 reg. no. 4X079
Strength 10 kN
max. flexion ≤ 5 mm
Tensile strength of fixing 15 kN
max. deformation ≤ 5 mm
Drill resistance 30 s
Chisel test resistance 3 strikes
Strength of ZA 10 kN

Security Class 4 as per EN 1906
with cylinder guard (ZA)
ES-3 L-ZA  DIN 18257 reg. no. 4X081
Strength 20 kN
max. flexion ≤ 5 mm
Tensile strength of fixing 30 kN
max. deformation ≤ 5 mm
Drill resistance 5 min
Chisel test resistance 12 strikes
Strength of ZA 20 kN

Any of the design options with full-length backplate or either of two forms of shorter backplate can be selected for Security Class 2 hardware in the open-keyway (figs. 1 + 2) or cylinder-guard (ZA) variants (fig. 3).

For the inside of the door, FSB supplies a rose variant in this security class in addition to its backplate options.

Security Class 4 hardware is only obtainable with full-length backplates owing to the exacting demands placed upon it.

Security concept
Modular multi-layer technique

FSB had recourse to the modular multi-layer technique it had developed in-house when design-engineering its “Design + Security” fittings package. This is a technique that has proved its worth time and time again in practical use, and has in fact become the industry standard.

The level of security laid down in the standards is increased from one security class to the next by replacing and adding materials.
73 7360

Entrance door furniture with straight-cornered backplate on inside, with lever handle FSB 1108, security class S4-ZA (cylinder projection 8–15 mm)
PC centres 92 mm, 10 mm square hole
PC centres 72 mm, 8 mm square hole

Order details required:
- Door thickness
- Centres and square follower hole
- Handing of inside handle
- Stainless Steel finish
- Quantity
- Dimension X for spindle 05 0115, see page 764
Security fittings
Design + Security

Order details
☐ Standard
☐ Fire safety (FS)

Type of furniture
☐ Entr.-door
☐ Lever set*

Inside hardware
☐ Backplate
☐ Roses

Security Class of backplate furn.
☐ S2
☐ S2
☐ S2-ZA

Security Class of rose furn.
☐ S2-ZA

Handing of furniture
☐ Ins. lever handle pointing to right
☐ Ins. lever handle pointing to left

Furniture to suit door thickness

mm

PC centres
☐ 72 mm

Square spindle
☐ 8 mm
☐ 9 mm

Material/colour
Aluminium (AL)
☐ 01
Alu + Colour (AF)
☐ white
Stainless Steel (ER)
☐ 6204
☐ 6205

Quantity ordered
sets

Lever-handle models by material:
FSB 1107 (Aluminium, Alu + Colour, Stainless Steel)

* S2-ZA only
## Security fittings

### Design + Security

**Order details**

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<th>S2-ZA 8 – 15 mm</th>
<th>S4-ZA 8 – 15 mm</th>
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<table>
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<th>7625</th>
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**Quantity ordered**

sets

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**Lever-handle models by material:**

- FSB 1107 (Aluminium, Alu + Colour, Stainless Steel)
- FSB 1023 (Bronze, Brass)

---

* S2-ZA only

**Dim. X:**

- 85 mm (Aluminium, Alu + Colour)
- 80 mm (Stainless Steel, Bronze)

Brass not as FS variant and only in S2-ZA
## Security fittings
### Design + Security

**Order details**
- Standard
- Fire safety (FS)

**Type of furniture**
- Entr.-door

**Inside hardware**
- Backplate
- Roses

**Security Class of backplate furn.**
- S2 11 mm
- S2 15 mm
- S2-ZA 8 – 15 mm
- S4-ZA 8 – 15 mm

**Security Class of rose furn.**
- S2-ZA 8 – 15 mm

**Handing of furniture**
- Ins. lever handle pointing to right
- Ins. lever handle pointing to left

**Furniture to suit door thickness**

<table>
<thead>
<tr>
<th>PC centres</th>
<th>72 mm</th>
<th>88 mm*</th>
<th>92 mm</th>
</tr>
</thead>
<tbody>
<tr>
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<td></td>
</tr>
<tr>
<td>72 mm</td>
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</tr>
</tbody>
</table>

**Square spindle**
- 8 mm
- 9 mm
- 8.5 mm
- 10 mm

**Material/colour**
- Aluminium (AL)
- Alu + Colour (AF)
- Stainless Steel (ER)
- Bronze

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**Quantity ordered**

Sets

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Lever-handle models by material:
- FSB 1107 (Aluminium, Alu + Colour, Stainless Steel)
- FSB 1023 (Bronze)
## Security fittings

### Design + Security

**Order details**
- **Standard**
- **Fire safety (FS)**

### Type of furniture
- **Entr.-door**

### Inside hardware
- **Backplate**
- **Roses**

### Security Class of backplate furn.
- **S2** 11 mm
- **S2** 15 mm
- **S2-ZA** 8 – 15 mm

### Security Class of rose furn.
- **S2-ZA** 8 – 15 mm

### Handing of furniture
- Ins. lever handle pointing to right
- Ins. lever handle pointing to left

### Furniture to suit door thickness
- ______ mm

### PC centres
- **72 mm**

### Square spindle
- **8 mm**
- **9 mm**

### Material/colour
- **Aluminium (AL)**
- **Alu + Colour (AF)**
- **Stainless Steel (ER)**

### Lever-handle models by material:
- FSB 1107 (Aluminium, Alu + Colour, Stainless Steel)

### Dimensions
- **Dim. X:** 85 mm (Aluminium, Alu + Colour)
- 80 mm (Stainless Steel)
### Security fittings
#### Design + Security

**Order details**
- ☐ Standard
- ☐ Fire safety (FS)
- ☐ 73 7378
- ☐ 73 7578

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<tr>
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<td>☐ Backplate</td>
</tr>
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#### Security Class of backplate furn.
- ☐ S2 11 mm
- ☐ S2 15 mm
- ☐ S2-ZA 8 – 15 mm
- ☐ S4-ZA 8 – 15 mm

#### Security Class of rose furn.
- ☐ S2-ZA 8 – 15 mm

#### Handing of furniture
- ☐ Ins. lever handle pointing to right
- ☐ Ins. lever handle pointing to left

<table>
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<th>mm</th>
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<td>☐ 88* mm</td>
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<td>☐ 9 mm</td>
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<td>☐ 8.5* mm</td>
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<td>☐ 10 mm</td>
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#### Material/colour
- Aluminium (AL) ☐ 01
- Al + Colour (AF) ☐ white
- Stainless Steel (ER) ☐ 6204
- Bronze ☐ 7615

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Lever-handle models by material:
- FSB 1107 (Aluminium, Al + Colour, Stainless Steel)
- FSB 1023 (Bronze)

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DIN

SKG
### Security fittings

#### Design + Security

**Order details**
- **Standard** 73 7379
- **Fire safety (FS)** 73 7579

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</table>
- S2 11 mm
- S2 15 mm
- S2-ZA 8 – 15 mm
- S4-ZA 8 – 15 mm

<table>
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- S2-ZA 8 – 15 mm

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- Ins. lever handle pointing to right
- Ins. lever handle pointing to left

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- 72 mm
- 88* mm
- 92 mm
- 72 mm, RC 22.4 mm*

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- 8 mm
- 9 mm
- 8.5* mm
- 10 mm

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<th>Material/colour</th>
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- Aluminium (AL)
- Alu + Colour (AF)
- Stainless Steel (ER)
- Bronze

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- 01
- white
- 6204
- 6205
- 7615
- 7625

**Quantity ordered** sets

**Lever-handle models by material:**
- FSB 1107 (Aluminium, Alu + Colour, Stainless Steel)
- FSB 1023 (Bronze)

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**Technical information page 574f.**

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* S2-ZA only
## Security fittings
### Design + Security

**Order details**
- Standard: 73 7381
- Fire safety (FS): 73 7581 (Stainless Steel only)

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**Quantity ordered** ________ sets

**Lever-handle models by material:**
FSB 1107 (Aluminium, Alu + Colour, Stainless Steel)

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* S2-ZA only
Security fittings
Design + Security

Order details

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Type of furniture

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Inside hardware

<table>
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<tr>
<th>☐ Backplate</th>
<th>☐ Roses</th>
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Security Class of backplate furn.

| ☐ S2 | ☐ 11 mm |
| ☐ S2 | ☐ 15 mm |
| ☐ S2-ZA | ☐ 8 – 15 mm |
| ☐ S4-ZA | ☐ 8 – 15 mm |

Security Class of rose furn.

| ☐ S2-ZA | ☐ 8 – 15 mm |

Handing of furniture

| ☐ Ins. lever handle pointing to right |
| ☐ Ins. lever handle pointing to left |

Furniture to suit door thickness

| mm |

PC centres

| ☐ 72 mm | ☐ 88* mm |
| ☐ 78 mm, RC 22.4 mm* |
| ☐ 72 mm |

Square spindle

| ☐ 8 mm | ☐ 9 mm | ☐ 8.5* mm | ☐ 10 mm |

Material/colour

| Aluminium (AL) | ☐ 01 |
| Alu + Colour (AF) | ☐ white |
| Stainless Steel (ER) | ☐ 6204 | ☐ 6205 |

Quantity ordered

| sets |

Lever-handle models by material:
FSB 1107 (Aluminium, Alu + Colour, Stainless Steel)

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* S2-ZA only
## Security fittings
### Design + Security

**73 7383**

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<td>PC centres</td>
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<td>☐ 78 mm, RC 22.4 mm*</td>
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<tr>
<td>Square spindle</td>
<td>☐ 8 mm</td>
<td>☐ 8.5* mm</td>
</tr>
<tr>
<td>Material/colour</td>
<td>Aluminium (AL)</td>
<td>☐ 01</td>
</tr>
<tr>
<td></td>
<td>Alu + Colour (AF)</td>
<td>☐ white</td>
</tr>
<tr>
<td></td>
<td>Stainless Steel (ER)</td>
<td>☐ 6204</td>
</tr>
<tr>
<td>Quantity ordered</td>
<td>☐ sets</td>
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Lever-handle models by material:
FSB 1107 (Aluminium, Alu + Colour, Stainless Steel)

---

* S2-ZA only
## Security fittings
### Design + Security

<table>
<thead>
<tr>
<th>Order details</th>
<th>Standard</th>
<th>Fire safety (FS)</th>
</tr>
</thead>
<tbody>
<tr>
<td>73 7384</td>
<td>73 7384</td>
<td>73 7584</td>
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</tbody>
</table>

**Type of furniture**
- ⬜ Entr.-door
- ⬜ Lever set*

**Inside hardware**
- ⬜ Backplate
- ⬜ Roses

**Security Class of backplate furn.**
- ⬜ S2 11 mm
- ⬜ S2 15 mm
- ⬜ S2-ZA 8 – 15 mm
- ⬜ S4-ZA 8 – 15 mm

**Security Class of rose furn.**
- ⬜ S2-ZA 8 – 15 mm

**Handing of furniture**
- ⬜ Ins. lever handle pointing to right
- ⬜ Ins. lever handle pointing to left

**Furniture to suit door thickness**

<table>
<thead>
<tr>
<th>mm</th>
</tr>
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<tbody>
<tr>
<td>72</td>
</tr>
<tr>
<td>78, 22.4 mm*</td>
</tr>
<tr>
<td>72</td>
</tr>
</tbody>
</table>

**PC centres**
- ⬜ 72 mm
- ⬜ 88* mm
- ⬜ 92 mm
- ⬜ 78 mm, RC 22.4 mm*
- ⬜ 92 mm*

**Square spindle**
- ⬜ 8 mm
- ⬜ 9 mm
- ⬜ 8.5* mm
- ⬜ 10 mm

**Material/colour**
- Aluminium (AL)
- Alu + Colour (AF)
- Stainless Steel (ER)
- ⬜ 01 white
- ⬜ 6204 6205

**Quantity ordered**

sets

Lever-handle models by material:
FSB 1107 (Aluminium, Alu + Colour, Stainless Steel)
Security fittings
Design + Security

Order details
- Standard □
- Fire safety (FS) □
- 73 7385 (Stainless Steel only) □

Type of furniture
- □ Entr.-door
- □ Lever set*

Inside hardware
- □ Backplate
- □ Roses

Security Class of backplate furn.
- □ S2 11 mm
- □ S2 15 mm
- □ S2-ZA 8 – 15 mm
- □ S4-ZA 8 – 15 mm

Security Class of rose furn.
- □ S2-ZA 8 – 15 mm

Handing of furniture
- □ Ins. lever handle pointing to right
- □ Ins. lever handle pointing to left

Furniture to suit door thickness
- □ mm

PC centres
- □ 72 mm
- □ 88* mm
- □ 92 mm
- □ 78 mm, RC 22.4 mm*
- □ 72 mm

Square spindle
- □ 8 mm
- □ 9 mm
- □ 8.5* mm
- □ 10 mm

Material/colour
- Aluminium (AL) □ 01
- Alu + Colour (AF) □ white
- Stainless Steel (ER) □ 6204
- □ 6205

Quantity ordered □ sets

Lever-handle models by material:
FSB 1107 (Aluminium, Alu + Colour, Stainless Steel)

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* S2-ZA only
## Security fittings
### Design + Security

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<th>☐ 73 7586 (Stainless Steel only)</th>
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<td>Type of furniture</td>
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<td>☐ Lever set*</td>
<td></td>
</tr>
<tr>
<td>Inside hardware</td>
<td>☐ Backplate</td>
<td>☐ Roses</td>
<td></td>
</tr>
<tr>
<td>Security Class of backplate furn.</td>
<td>☐ S2 11 mm</td>
<td>☐ S2 15 mm</td>
<td>☐ S2-ZA 8 – 15 mm</td>
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<td>Security Class of rose furn.</td>
<td>☐ S2-ZA 8 – 15 mm</td>
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<tr>
<td>Handing of furniture</td>
<td>☐ Ins. lever handle pointing to right</td>
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<td>Furniture to suit door thickness</td>
<td>mm</td>
<td></td>
<td></td>
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<td>☐ 9 mm</td>
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<tr>
<td>Material/colour</td>
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<td>☐ 6204</td>
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<td>Stainless Steel (ER)</td>
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<td>☐ 6205</td>
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</table>

Quantity ordered _____ sets

Lever-handle models by material: 
FSB 1107 (Aluminium, Alu + Colour, Stainless Steel)
Security fittings
for narrow stile doors

73 7330

□

73 7330 030
73 7530 030

Lever-handle set for narrow stile doors, handles with turnably fixed bearings on both sides, outside backplate 14 mm, inside backplate 7 mm, PC centres 72 and 92 mm

8 mm square spindle
9 mm square spindle

□

73 7330 031
73 7530 031

Entrance-door furniture for narrow stile doors, lever handle with turnably fixed bearing, outside backplate 14 mm, inside backplate 7 mm, PC centres 72 and 92 mm

8 mm square spindle
9 mm square spindle

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Certified to DIN 18257 ES 1
Security fittings
for narrow stile doors

73 7331 030
73 7531 030
Lever-handle set for narrow stile doors, handles with turnably fixed bearings on both sides, outside backplate 14 mm, inside backplate 7 mm, PC centres 72 and 92 mm
8 mm square spindle
9 mm square spindle
to suit cylinder projections of 8 – 13 mm

73 7331 031
73 7531 031
Entrance-door furniture for narrow stile doors, lever handle with turnably fixed bearing, outside backplate 14 mm, inside backplate 7 mm, PC centres 72 and 92 mm
8 mm square spindle
9 mm square spindle
to suit cylinder projections of 8 – 13 mm

Certified to DIN 18257 ES 1
Security roses

Both armoured roses have been tested and certified to DIN 18257 ES 1 and DIN 18273 for FS doors.

### 73 7395 01..

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Ø</th>
<th>CP</th>
<th>Height</th>
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<tbody>
<tr>
<td>73 7395 01010</td>
<td>61.5 mm</td>
<td>6.5 mm</td>
<td>12.5 mm</td>
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<tr>
<td>73 7395 01110</td>
<td>62.3 mm</td>
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<td>14.5 mm</td>
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<td>73 7395 01210</td>
<td>63.0 mm</td>
<td>10.5 mm</td>
<td>16.5 mm</td>
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</table>

Given the cylinder lengths generally marketed, these roses can only be used on doors 50 mm or more thick.

### 73 7395 00..

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Ø</th>
<th>CP*</th>
<th>Height</th>
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<tbody>
<tr>
<td>73 7395 00010</td>
<td>61.5 mm</td>
<td>12.5 mm</td>
<td>12.5 mm</td>
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<tr>
<td>73 7395 00110</td>
<td>62.3 mm</td>
<td>14.5 mm</td>
<td>14.5 mm</td>
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<td>73 7395 00210</td>
<td>63.0 mm</td>
<td>16.5 mm</td>
<td>16.5 mm</td>
</tr>
</tbody>
</table>

* recommended cylinder projection ± 1.5 mm
Security roses

73 7397

Product Code | CP | Height
---|---|---
73 7397 01110 | 61.5 mm | 8.5 mm | 14.5 mm

Tested and certified to DIN 18257 ES 1 and DIN 18273 for FS doors, with inside rose FSB 17 1704

73 3244
to suit cylinder projections of 8 – 15 mm, borehole diam. 3.2 mm

73 3249
to suit cylinder projections of 10 – 17 mm, borehole diam. 3.2 mm

The security engineering adopted entails the external dimensions of the armoured rose extending 11 mm (FSB 73 3244) beyond borehole centres. Please bear this in mind where other fittings are involved.
Security roses

73 7391 | 73 7392

73 7391 (14 mm)
73 7392 (10 mm)

73 7393

to suit cylinder projections of 8 – 15 mm

exclusively Aluminium 0105
Stainless Steel
Aluminium + Colour
Security rose
flush fit

Tested and certified to DIN 18257 ES 1 and DIN 18273 for FS doors

The defining dimension for flush armoured rose 73 7396 (door thicknesses of 56 mm upwards) is that between the centre of the lock and the outside of the door:

A distance of at least 33.5 mm is required for FSB 73 7396 01010, as against a mere 29.0 mm for FSB 73 7396 02010.

The lower figure for 73 7396 02010 is due to the securing disc being omitted, making 73 7396 02010 a first-rate choice where the combination of door thickness and lock position poses problems: if the door is of a thinner type or the lock position is less than ideal, 73 7396 02010 permits compensation of cylinder projections up to 4.5 mm greater and door thicknesses up to 4.5 mm less than with the 73 7396 01010 model. Omitting the securing disc does not affect the Security Class either – both versions enjoy ES1 classification under DIN 18257. An additional distance of 27.5 mm from the lock centre to the inside of the door is required if the inside rose is likewise to be flush-fitted – the profile cylinder then lies flush with the face of the door. The minimum door thickness required is thus 56 mm.

Routing dimensions: outside Ø 60.8 mm, depth 12.5 mm (routing bit Ø 20 mm, collar ring Ø 30 mm), inside Ø 55.8 mm, depth 7 mm (routing bit Ø 20 mm, collar ring Ø 35 mm).

Lug boreholes (Ø 9 mm) need to be 38 mm apart and at least 7 mm deep on both sides. The areas machined subsequently require sealing – especially on the outside of the door!

Since flush fitting has no bearing on their security rating, armoured roses can, of course, be allowed to project by a few millimetres or, indeed, they can be surface-mounted in the “classical” way, a solution that is every bit as visually impressive given the elemental geometry informing this hardware. 73 7396 comes as a set complete with inside rose and, with the door thickness posited and M5 screws supplied, facilitates flush fitting on both sides. Please advise differing requirements when ordering.

A routing template, Product Code 03 0462 00010, is shown on page 780.

fsb.de/737396

Order details required:
- Door thickness
- Variant 73 7396 01010 or 02010
- Material/finish
- Quantity
- Inside rose to be ordered separately