

KFV

Key-operated multi-point locks

AS 3600

AS 3600 T4

AS 3600 TA

Window systems

Door systems

Comfort systems

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1 About this documentation

1.1 Read the instructions

These instructions are an important document and part of the product. Only the defined procedures are safe. Persons can be injured or material damage could occur if these instructions are not observed.

Read and observe the instructions completely prior to the installation of the product.

1.2 Producer

KFV Karl Fliether GmbH & Co. KG
Siemensstraße 10
42551 Velbert
Germany

You can find the addresses of our worldwide locations here:
<https://www.siegenia.com/en/company/locations>

1.3 Notice on gender

The linguistic form used serves for easier readability and always means all genders as long as nothing else is explicitly mentioned.

1.4 Target group

This information is intended for producers of construction elements, fitters and retrofitters.

Producers of construction elements comprise all persons who carry out the following activities:

- Fabricate KFV products in door elements

The target group "fitters and retrofitters" comprises all persons who carry out the following activities:

- KFV install and repair products in a building project
- install and repair door element that are equipped with KFV products in a building project
- retrofit door elements with KFV products

1.5 Applicable information

Note the following applicable information prior to installation.

- AS 3600 operating instructions:
<link.si/td/mfvr002/0223>



- Assembly and operating instructions, A-opener
<link.si/td/elek011/0322>



- Assembly instructions of the producer for the door hardware
- DIN ISO 2768-1:1991-06 General tolerances

1.6 Symbols used

1.6.1 Element materials



PVC



Timber



Metal

1.6.2 Tooling and work equipment



Screw head PZD



Phillips screwdriver PZD

1.7 Abbreviations

ACS	Access control system
A-opener	Automatic opener
CA	Multi-point lock with comfort function with electronic type A
CB	Multi-point lock with comfort function with electronic type B
D	Backset
E	Distance
EA	Multi-point lock without comfort function with electronic type A
EB	Multi-point lock without comfort function with electronic type B
ETS	Engineering tool software
FFB	Sash rebate width
FFH	Sash rebate height
H	Timber
MFV	Multi-point lock
MV	Size variant
PDB	Profile data sheet
PVC	PVC
PZ	Profile cylinder
PZD	Pozidrive
RC	Resistance class
Replacement part	Stop for the main lock latch
RZ	Round cylinder
SI-Bus	SIEGENIA bus system

2 Security

2.1 Intended use

- AS 3600 is a hardware system that automatically locks and unlocks entrance doors.
- The hardware system is intended for use in vertically installed windows or doors.
- The product is suitable for installation in entrance doors made of timber, metal or PVC.
- The product is suitable for installation in single-sash and double-sash doors in permanent buildings.
- The product is not suitable for use in escape and rescue routes in accordance with EN 179 or EN 1125.
- Do not install the product in smoke control doors or fire doors.

2.2 Requirements for the target groups

We assume and require that manufacturers of building elements possess the following knowledge and skills:

- knowledge of the regulations concerning occupational safety and accident prevention
- comprehension of technical correlations according to state-of-the-art science and technology
- knowledge of professional work steps
- knowledge of the applicable standards and directives
- knowledge of applicable testing regulations
- knowledge and skills with regard to material processing of the respective material (timber, PVC, metal)
- knowledge and skills with regard to the professional use of tooling, machines and systems for the production of door elements
- knowledge and skills with regard to the professional fixing of technical elements
- knowledge in functional testing and operation of door elements
- knowledge of the requirements of profile system providers

If the door elements are equipped with an electromechanical drive or a sensor, the following knowledge and skills are presumed and required:

- knowledge and skills with regard to the professional fabrication of electrical components
- knowledge and skills with regard to the work steps:
 - connecting electrical components
 - commissioning electrical components
 - checking the function of electrical components
- knowledge of the 5 safety rules:
 - enable
 - secure against reactivation
 - ensure that system is voltage-free
 - earthing and short-circuiting
 - cover or isolate proximate live parts

KFV offers training courses for the acquisition of some of the required knowledge and skills. Contact your KFV sales consultant in case of requirement.

We assume and require that fitters and retrofitters possess the following knowledge and skills:

- knowledge of the regulations concerning occupational safety and accident prevention
- comprehension of technical correlations according to state-of-the-art science and technology
- knowledge of professional work steps
- knowledge of the applicable standards and directives
- knowledge and skills with regard to the professional use of electrical and mechanical tooling
- knowledge and skills with regard to the professional fixing of technical elements
- knowledge and skills with regard to the retrofit of mechanical security technology on door elements

If the door elements are equipped with an electromechanical drive or a sensor, the following knowledge and skills are presumed and required:

- knowledge and skills with regard to the professional fabrication of electrical components
- knowledge and skills with regard to the work steps:
 - connecting electrical components
 - commissioning electrical components
 - checking the function of electrical components
- knowledge of the 5 safety rules:
 - enable
 - secure against reactivation
 - ensure that system is voltage-free
 - earthing and short-circuiting
 - cover or isolate proximate live parts

KFV offers training courses for the acquisition of some of the required knowledge and skills. Contact your KFV sales consultant in case of requirement.

2.3 Safety notes

Material damage due to inappropriate transport

The multi-point lock can be damaged during transport if the locking elements are in the locking position.

- Ensure that the locking elements are in the release position.

Material damage due to improper assembly

You will damage the multi-point lock if you do not install the handle set properly.

- Once the gear box is installed, do not drill through the door leaf.
- Do not knock the square spindle of the lever handle into the locking groove with force.

Material damage due to carrying by the lever handle

You will damage the multi-point lock if you carry the door leaf by the lever handle.

- Use suitable aids to transport the door leaf.

Functional impairment of the multi-point lock

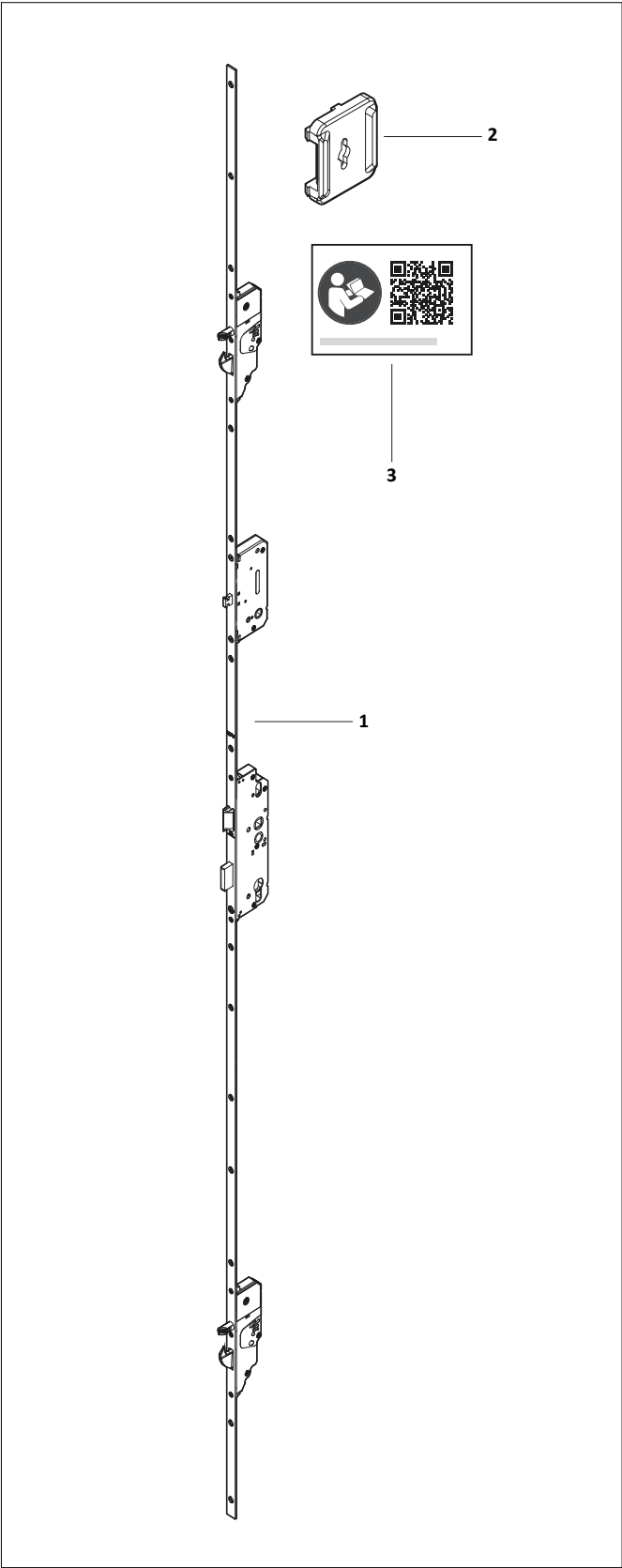
If the surfaces of the door and of the door frame are treated after installation, the functioning of the multi-point lock may be impaired.

- The surfaces of the door and door frame must be treated prior to installation.

3 Product specifications

3.1 Scope of delivery

3.1.1 AS 3600



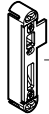
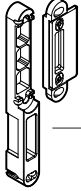
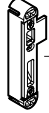
Item	Name	Quantity
1	Multi-point lock	1
2	Transit support	2
3	QR info	1

3.1.2 Required components

The components listed are required for proper functioning.

For installation in accordance with SKG certification, use frame parts featuring SKG markings only.

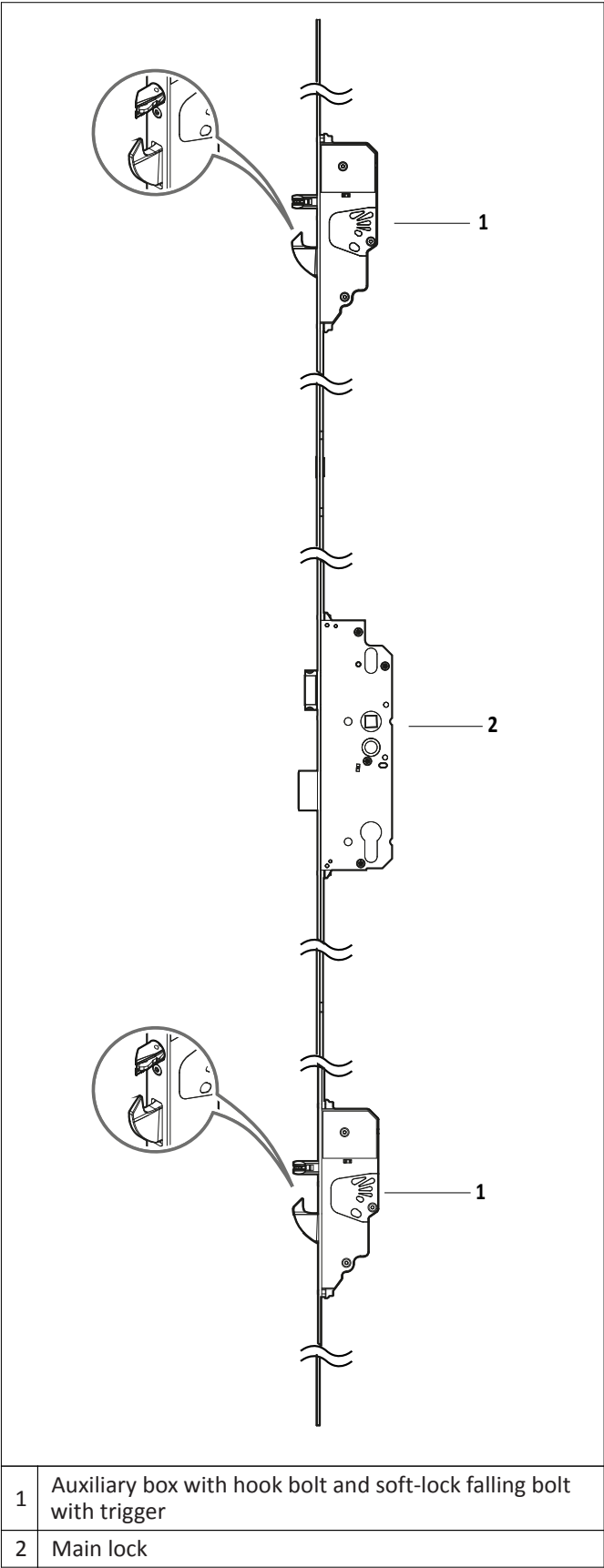
The following optional frame part variants are also available:

Variant 1: locking rail	Variant 2: striker plates	Variant 3: lock casings
	 2	 5
	 3	
	 4	 6
	 2	 5

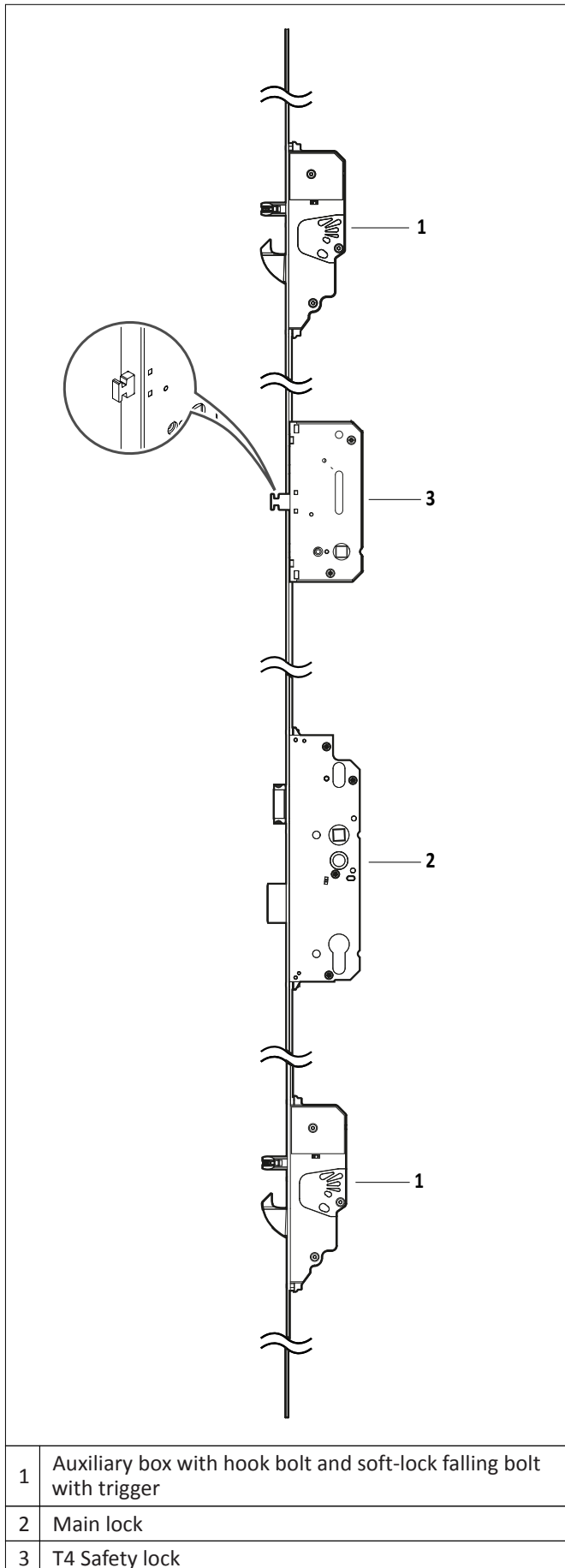
Item	Name	Quantity
1	Locking rail with replacement part for latch and deadbolt; optional: locking rail T2 with blocking clip for T3 or T4; day latch for daytime release TA	1
2	Auxiliary striker plate with Q-adjustment for falling bolt and hook bolt	2
3	optional: auxiliary striker plate T2 with blocking clip for T3 or T4	1
4	Main striker plate with replacement part for latch and deadbolt; optional: day latch for daytime release TA	1
5	SKG auxiliary lock casing for falling bolt and hook bolt in timber frame	2
6	SKG main lock casing for latch and deadbolt in timber frame	1

3.2 Structure

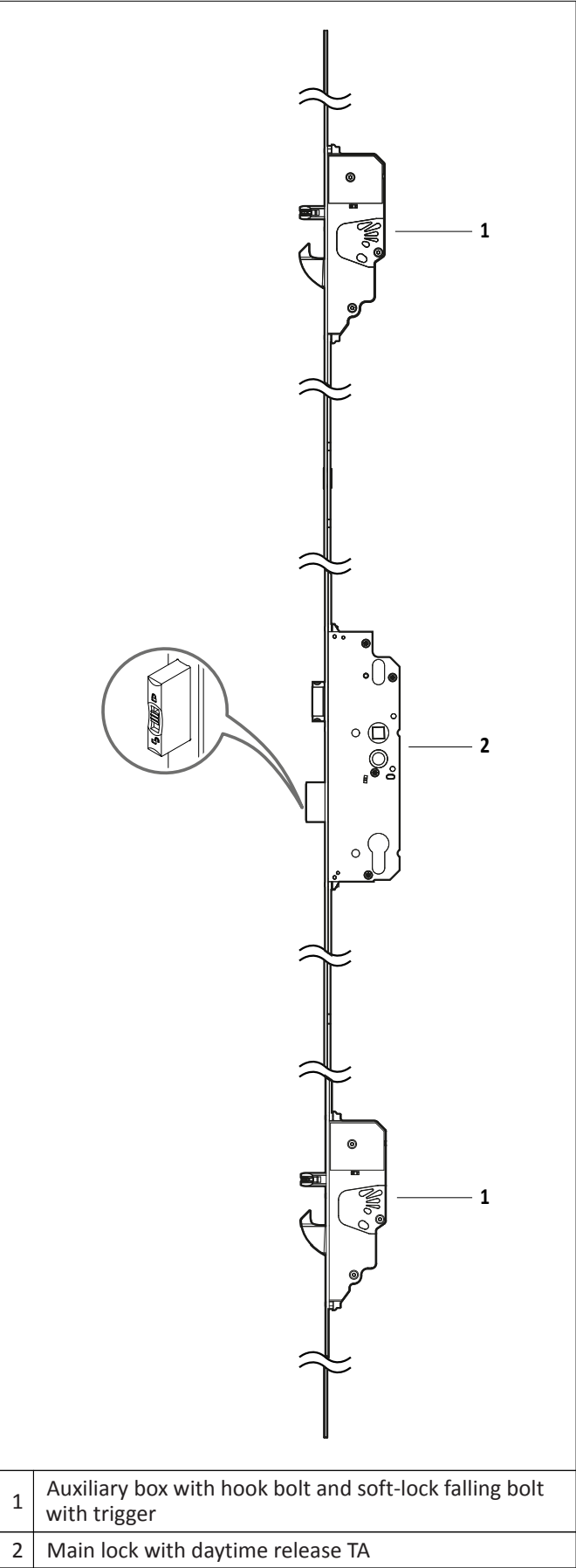
3.2.1 AS 3600



3.2.2 AS 3600 with T4



3.2.3 AS 3600 with TA



3.3 Operation

Automatic door lock

The AS 3600 multi-point lock automatically locks the door. When the door is closed, the trigger of the soft-lock falling bolt touches the frame part. The soft-lock falling bolt and the hook bolt of the auxiliary boxes lock the door. The door can be opened using the lever handle or the key for the cylinder lock. When the door is closed, the door can only be re-locked manually by means of the cylinder lock. The main lock bolt also locks the door. The lever handle is then blocked. The door can then only be opened using the key for the cylinder lock.

Safety lock

The AS 3600 T4 multi-point lock has an integrated safety lock. The safety lock restricts the opening width of the door. The door can be opened at any time from inside using the swivel knob and from outside using the

main lock. The AS 3600 and AS 3600 TA multi-point lock can be retrofitted with a T3 safety lock. It can only be opened from inside using the swivel knob.

Daytime release

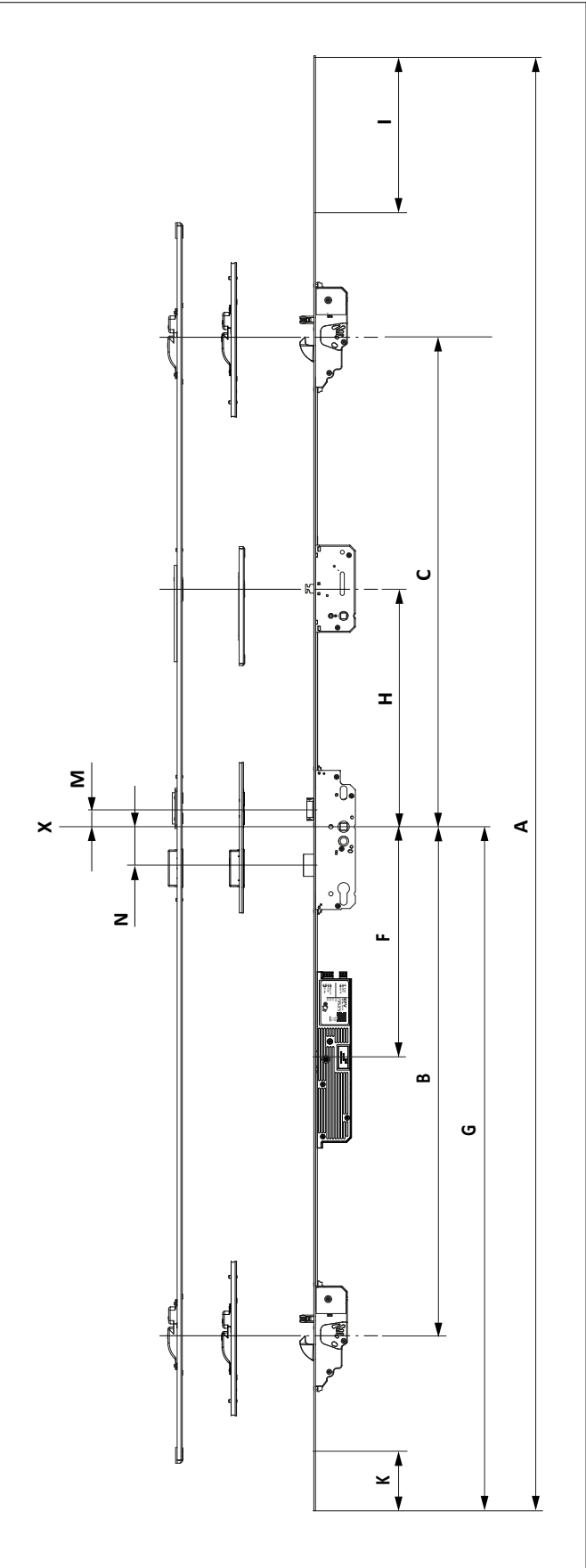
The AS 3600 TA multi-point lock has an additional daytime release. The daytime release enables the door to be opened from the outside without the use of a key. If a day latch is installed in the frame part and is set to the status "open", a stop handle temporarily deactivates the automatic function in the main lock bolt.

Electromechanical unlocking

The AS 3600 multi-point lock can be retrofitted with the A-opener. If the main lock bolt is not in the locking position and the lever handle is not blocked, the A-opener unlocks the door electromechanically, e.g. via an intercom system or an access control system.

3.4 Dimensions

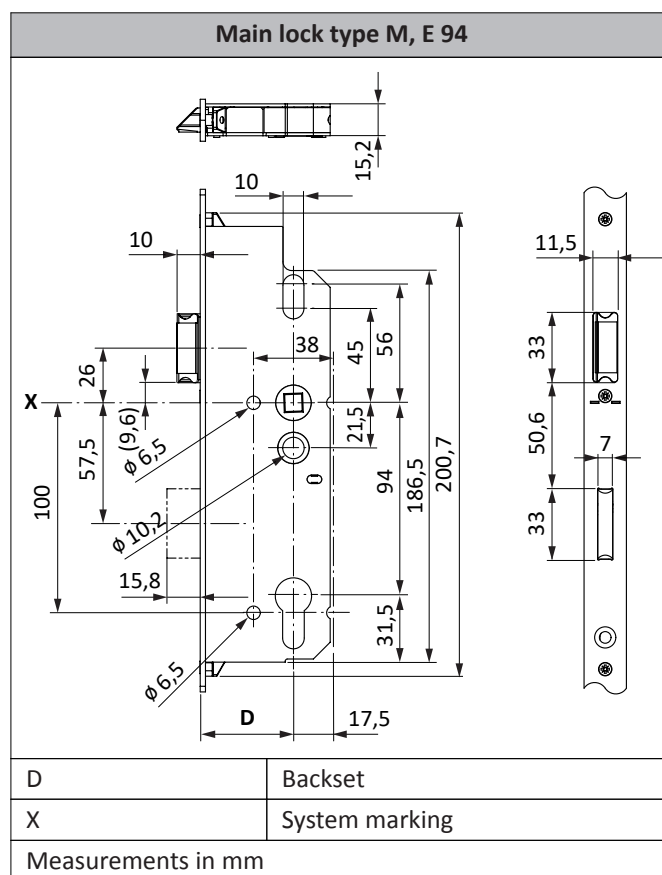
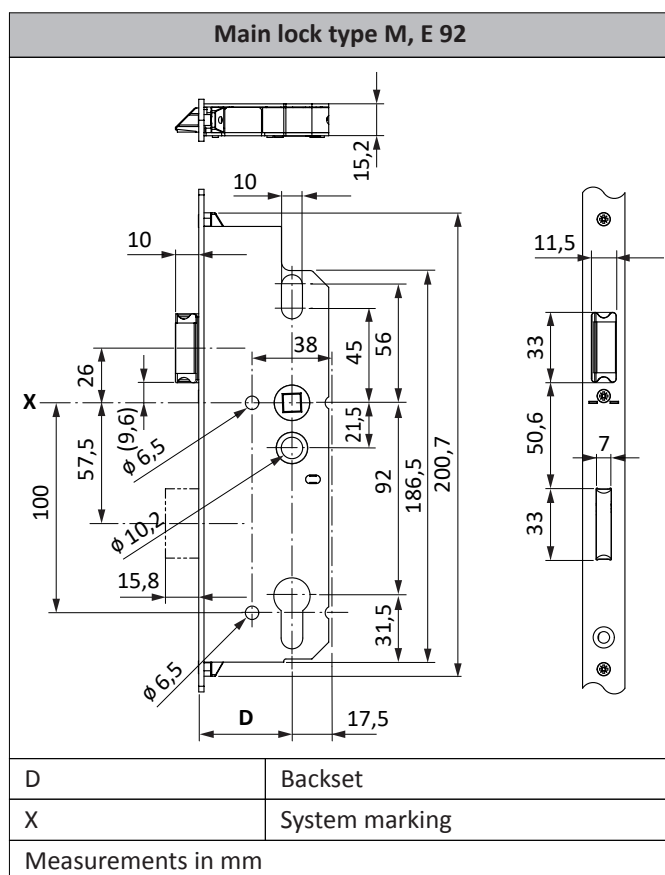
3.4.1 AS 3600



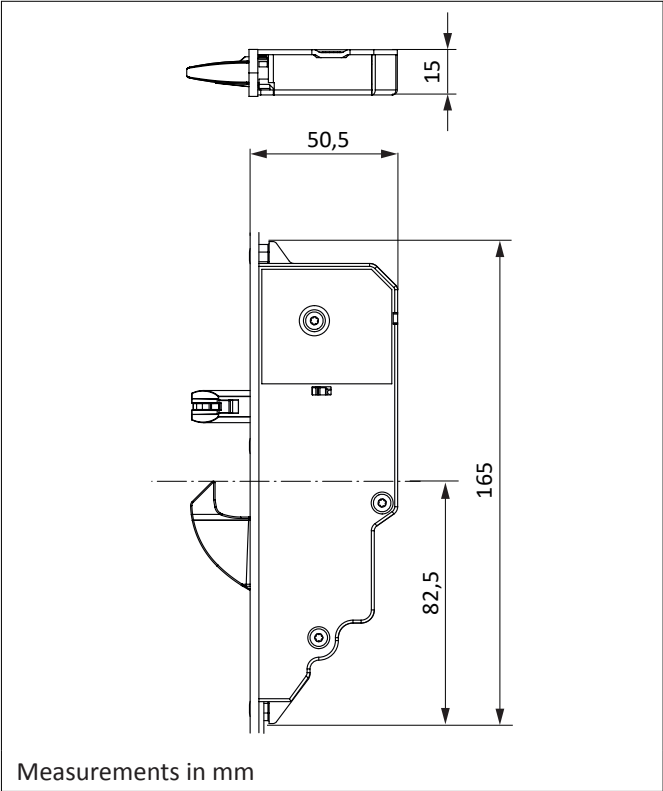
A	Total length
X	System marking
B	System marking up to middle of bottom auxiliary box
C	System marking up to middle of top auxiliary box
F	System marking up to middle of drive
G	System marking up to upper edge of finished flooring
H	System marking up to middle of safety lock
I and K	Can be shortened
M	Middle of lever handle square spindle to middle of latch (see page 15)
N	Middle of lever handle square spindle to middle of deadbolt (see page 15)
Measurements in mm	

Size variants	A (mm)	B (mm)	C (mm)	F (mm)	G (mm)	H (mm)	I (mm)	K (mm)	FFH (mm)
Continuous secondary sash with G = 1020									
B296	2170	760	355	380	1020	-	665	130	1505 – 1754
B298	2170	760	605	380	1020	355	415	130	1755 – 1880
B001	2170	760	730	380	1020	355	290	130	1881 – 2170
B003	2400	760	980	380	1020	355	270	130	2171 – 2400
Cropped secondary sash with 2 fastening holes on each sash end									
B039	1500	760	355	380	952	-	-	-	1505 – 1754
B041	1700	760	605	380	952	355	-	-	1755 – 1880
B166	1855	760	730	380	952	355	-	-	1881 – 2170
B253	2170	760	980	380	952	355	-	-	2171 – 2400
Cropped secondary sash with one fastening hole on each sash end									
C038	1629	760	605	380	892	355	-	-	1755 – 1880
C002	1754	760	730	380	892	355	-	-	1881 – 2170
C054	2004	760	980	380	892	355	-	-	2171 – 2400

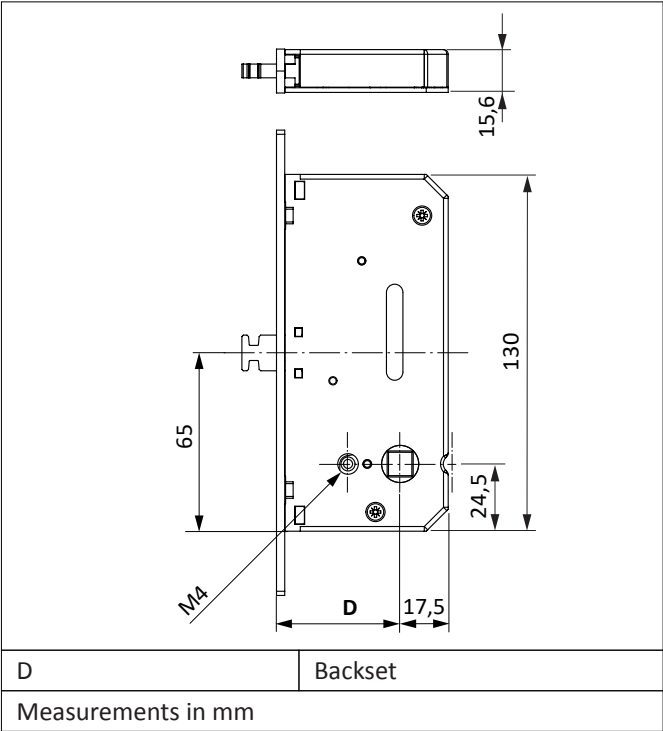
3.4.2 Dimensions of main lock



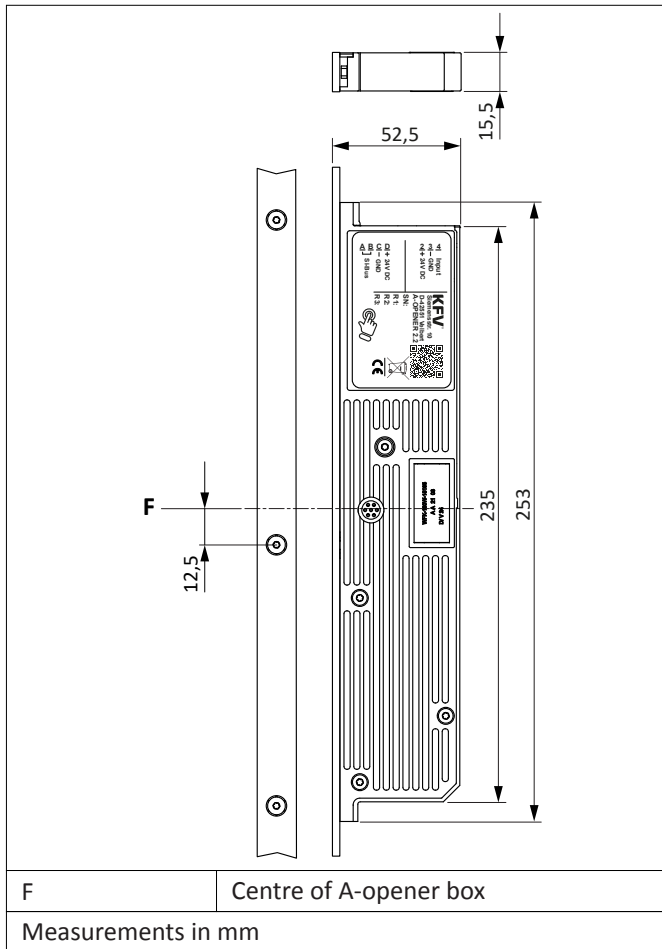
3.4.3 Dimensions of auxiliary box



3.4.4 Dimensions of T3/T4

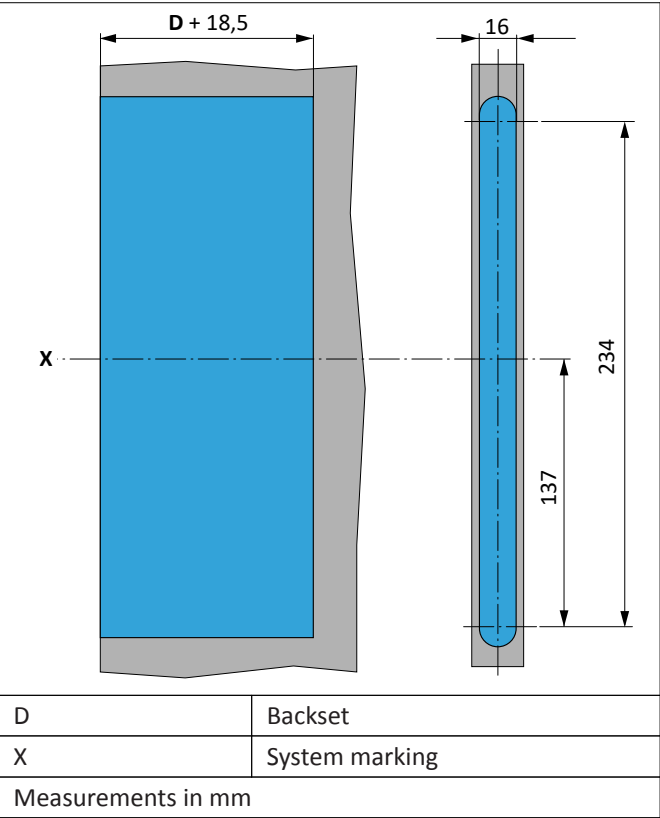


3.4.5 Dimensions of A-opener

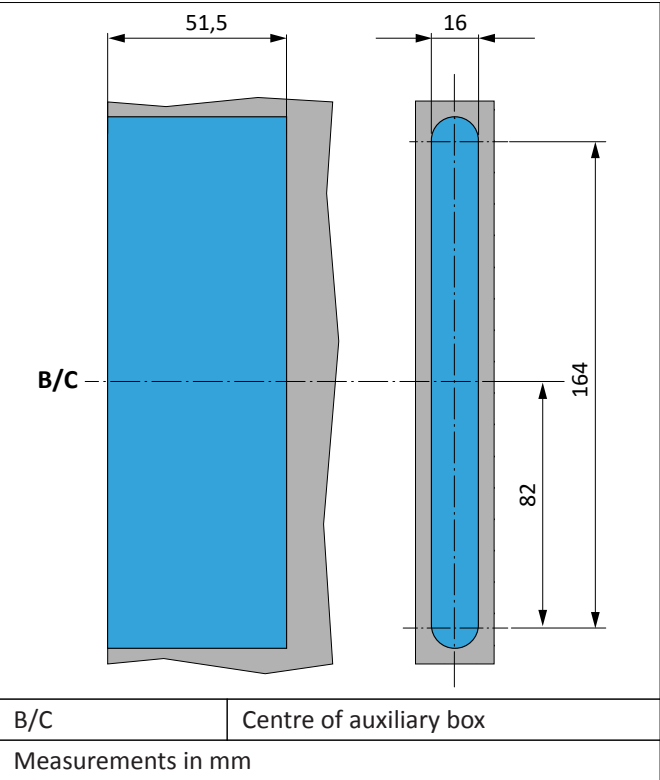


3.5 Processing dimensions

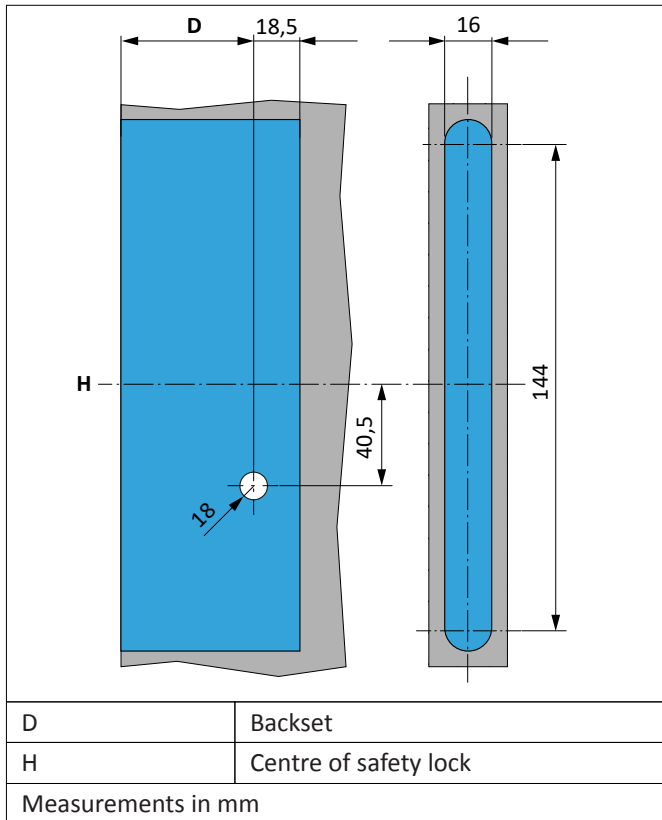
3.5.1 Milling dimensions for main lock



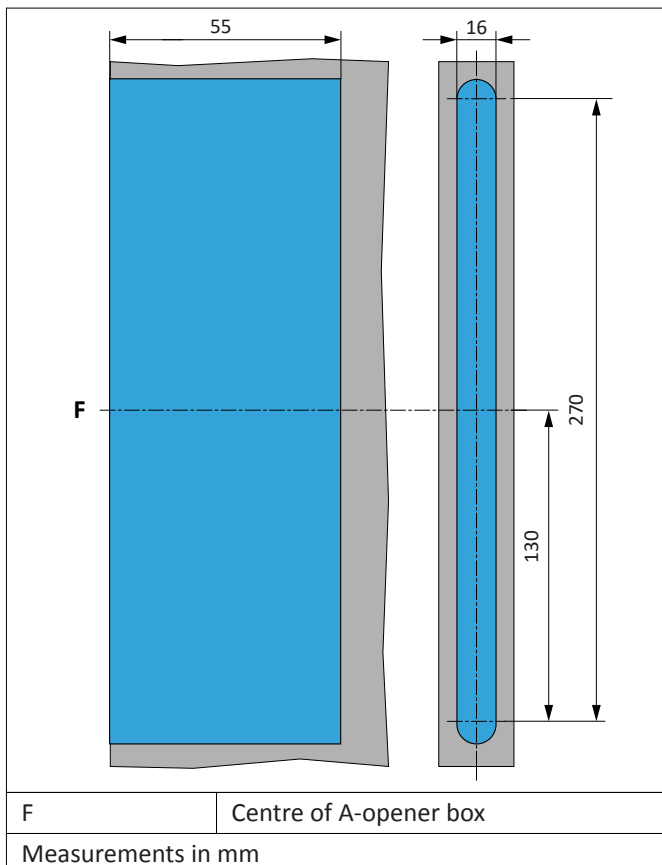
3.5.2 Milling dimensions for auxiliary box



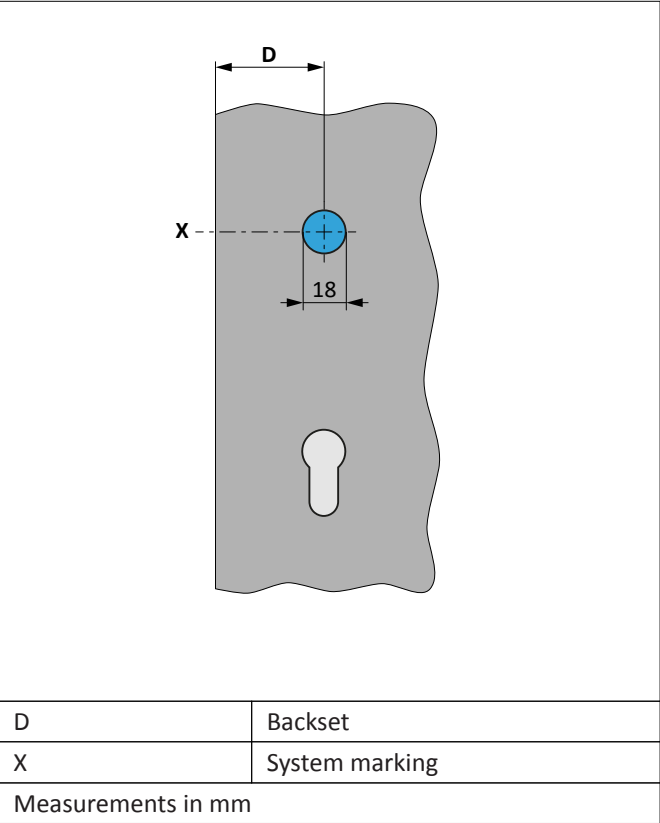
3.5.3 Milling dimensions for T3/T4



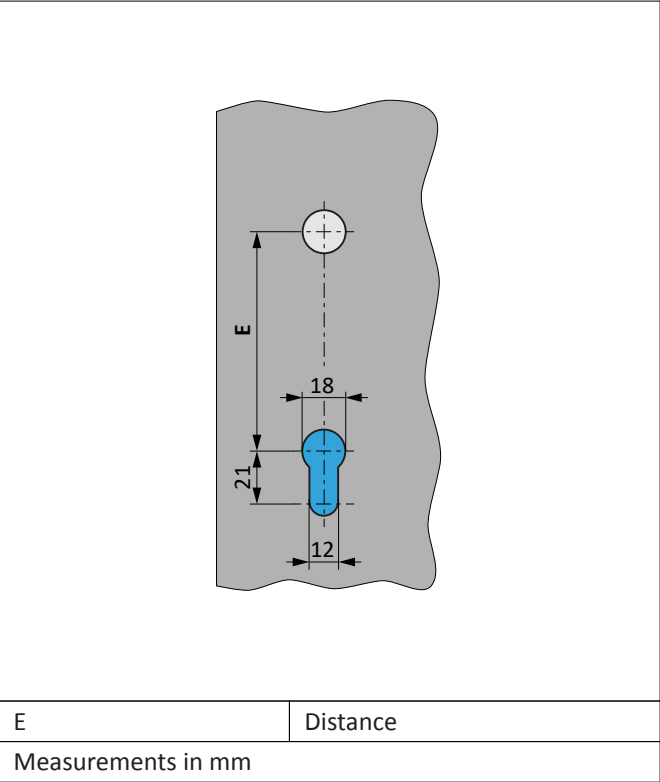
3.5.4 Milling dimensions for A-opener



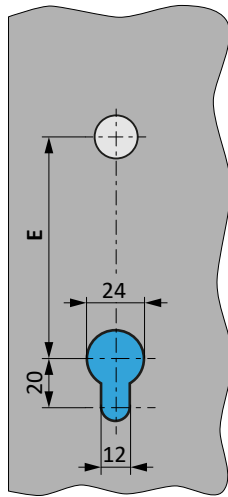
3.5.5 Drilling dimensions for lever handle



3.5.6 Milling dimensions for profile cylinder



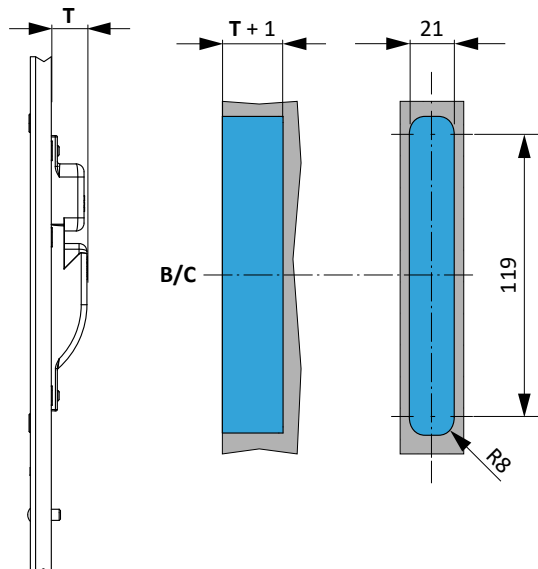
3.5.7 Milling dimensions for round cylinder



E	PZ dimension
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Measurements in mm

3.5.8 Milling dimensions for Q striker plate

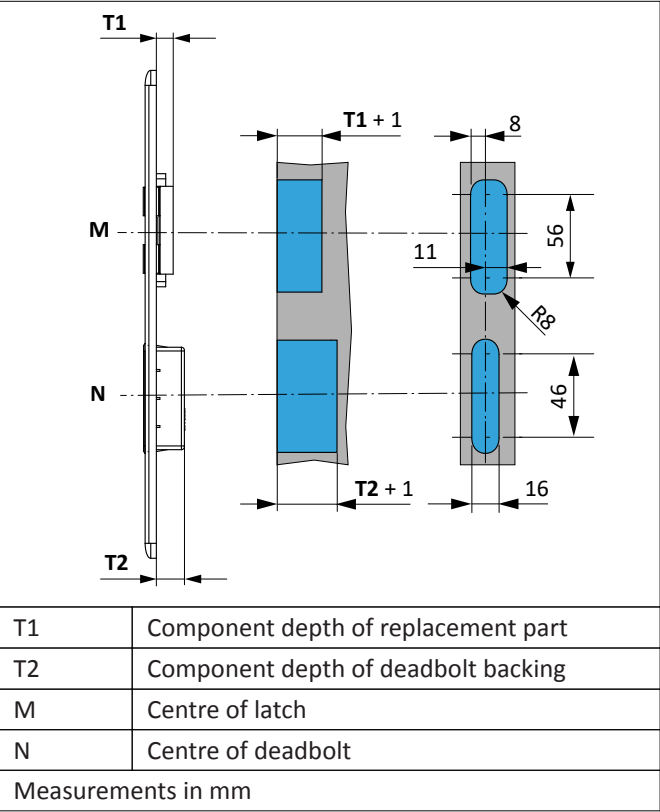


T	Component depth
---	-----------------

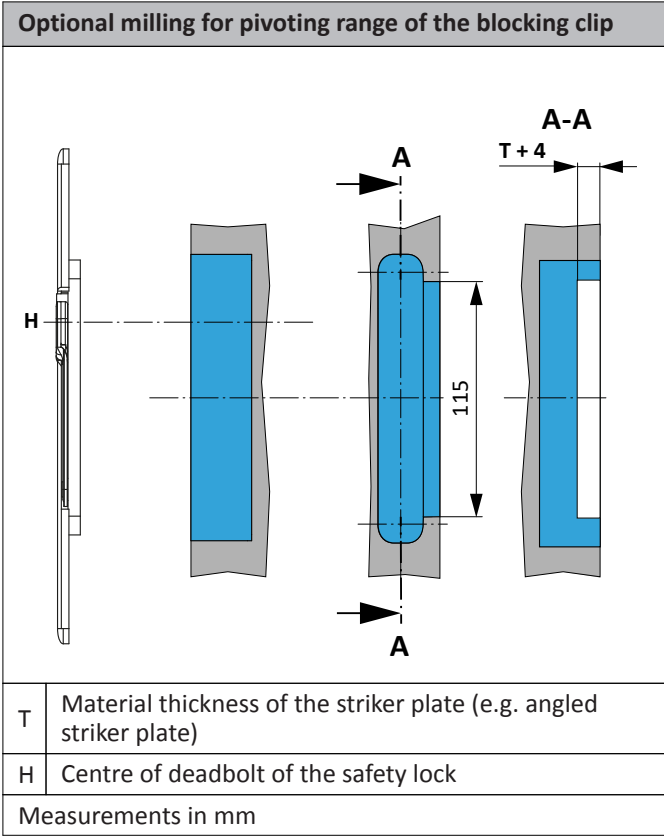
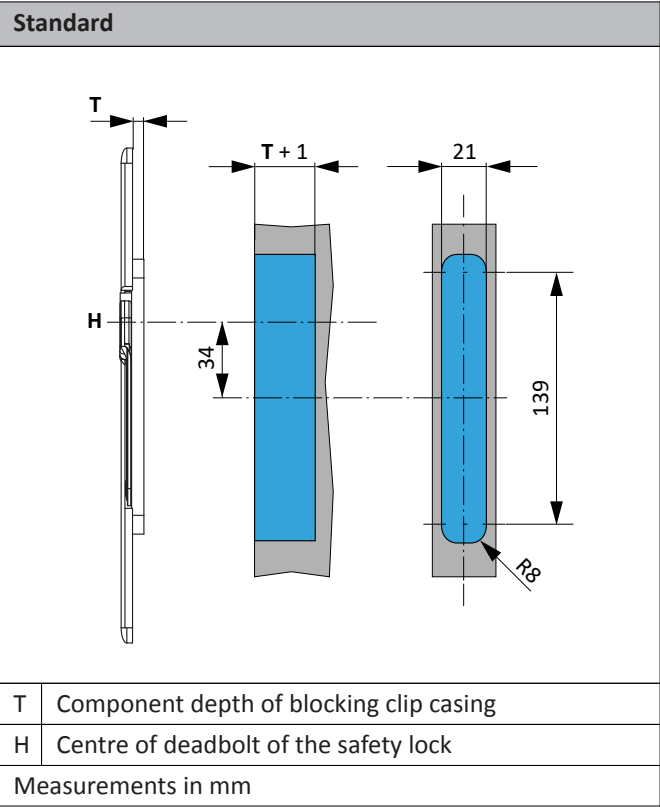
B/C	Centre of auxiliary box
-----	-------------------------

Measurements in mm

3.5.9 Milling dimensions for main striker plate



3.5.10 Milling dimensions for striker plate T3 and T4



3.6 Accessories

3.6.1 AS 3600 accessories

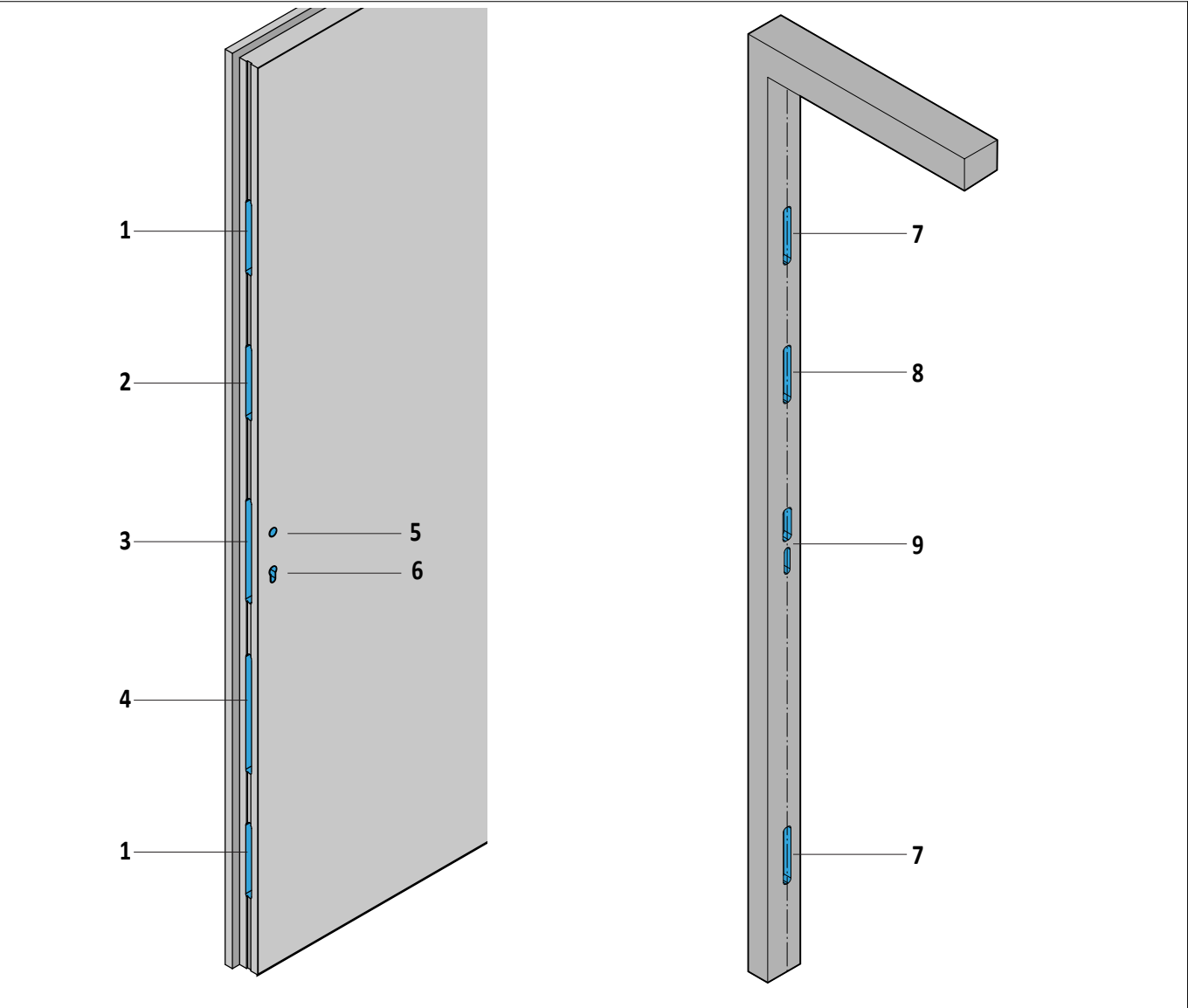
Name	Characteristic	D (mm)	E (mm)	Material description	Material number
Electromechanical drive for A-opener 2.2	- Cannot be combined with safety lock T3 - Cannot be combined with daytime release TA	-	-	ZEM EE-AOE-SB-----2.2--	3800700
Main lock with daytime release TA	- Can be combined with safety lock T3 - Cannot be combined with A-opener	35	92	HSS HS-SET 3050SL TA PZW 35-92-1	3507476
		40		HSS HS-SET 3050SL TA PZW 40-92-1	3507477
		45		HSS HS-SET 3050SL TA PZW 45-92-1	3507478
		50		HSS HS-SET 3050SL TA PZW 50-92-1	3507479
		55		HSS HS-SET 3050SL TA PZW 55-92-1	3507480
		65		HSS HS-SET 3050SL TA PZW 65-92-1	3507481
		80		HSS HS-SET 3050SL TA PZW 80-92-1	3507482
		35	94	HSS HS-SET 3050SL TA RZW 35-94-1	3507483
		40		HSS HS-SET 3050SL TA RZW 40-94-1	3507484
		45		HSS HS-SET 3050SL TA RZW 45-94-1	3507485
		50		HSS HS-SET 3050SL TA RZW 50-94-1	3507486
		55		HSS HS-SET 3050SL TA RZW 55-94-1	3507487
		65		HSS HS-SET 3050SL TA RZW 65-94-1	3507488
		80		HSS HS-SET 3050SL TA RPZW 80-94-1	3507489
T3 Safety lock	Cannot be combined with A-opener	35	-	ZSK 201-T3-8063/V-35-----E	3483983
		40		ZSK 201-T3-8063/V-40-----E	3483984
		45		ZSK 201-T3-8063/V-45-----E	3483985
		50		ZSK 201-T3-8063/V-50-----E	3483986
		55		ZSK 201-T3-8063/V-55-----E	3483987
		65		ZSK 201-T3-8063/V-65-----E	3483989
		80		ZSK 201-T3-8063/V-80-----E	3483990

3.6.2 AS 3600 TA accessories

Name	Characteristic	D (mm)	Material description	Material number
T3 Safety lock	Cannot be combined with A-opener	35	ZSK 201-T3-8063/V-35-----E	3483983
		40	ZSK 201-T3-8063/V-40-----E	3483984
		45	ZSK 201-T3-8063/V-45-----E	3483985
		50	ZSK 201-T3-8063/V-50-----E	3483986
		55	ZSK 201-T3-8063/V-55-----E	3483987
		65	ZSK 201-T3-8063/V-65-----E	3483989
		80	ZSK 201-T3-8063/V-80-----E	3483990

4 Assembly

4.1 Preparing for installation



1	Milling for auxiliary box (see page 18)
2	Milling for T3 or T4 (see page 19)
3	Milling for main lock (see page 18)
4	Milling for A-opener (see page 19)
5	Hole for lever handle (see page 20)
6	Milling for profile cylinder (see page 20) or milling for round cylinder (see page 21)
7	Milling for Q striker plate (see page 21)
8	Milling for striker plate T3 or T4 (see page 22)
9	Milling for striker plate of the main lock (see page 22)

! NOTICE

Material damage due to incorrect drilling dimensions for lever handle

The components of the multi-point lock will not work.

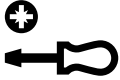
- Determine the correct backset. The backset D refers to a flat steel secondary sash with a thickness of 3 mm. Using a different secondary sash changes this dimension and the dimensions dependent on it.

in such a way that the blocking clip can retract and extend freely. Perform the optional milling (see page 22) if required.

1. Drill and mill the door leaf and door frame according to the dimensions and general tolerances defined in ISO 2768. Mill the striker plate T3 or T4
2. Before installing the product, check the dimensional accuracy of the door and the door frame. Do not install the product if there is warping or damage.
3. Remove any splinters from routed pockets after milling.
4. Check the product for damage. Do not install the product if it is bent or damaged.
5. If an A-opener is retrofitted, route the cables for the power supply to the drive from the hinge side of the door leaf to the product without any kinks.

4.2 Tooling and work equipment

Tooling

	Slotted screwdriver 1 x 5.5 mm
	Cross screwdriver PZD2
	Allen key T10

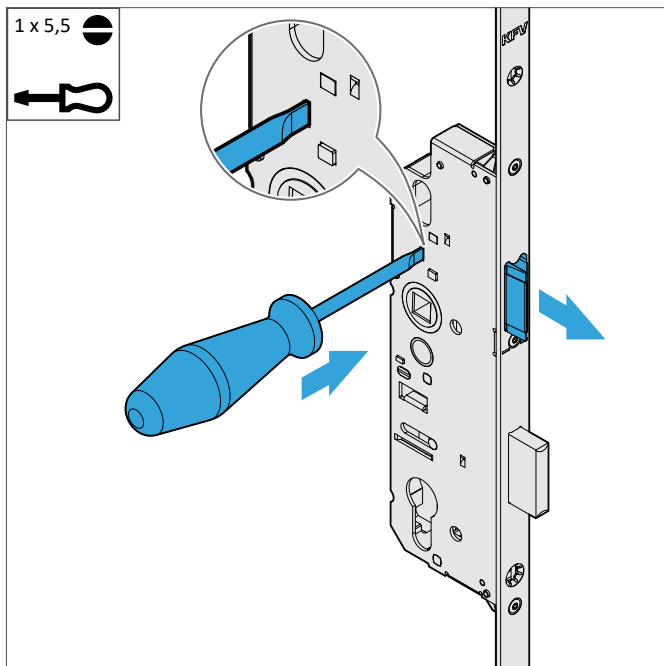
Work equipment		Intended use	
	Screw Ø 3.9 mm	Metal	min. 2 mm wall thickness
	Screw Ø 4.8 mm		• min. 2 mm wall thickness • For RC2 (SKG**)
	Screw Ø 4.0 mm – 4.8 mm	Timber	
	Screw Ø 4.0 mm × 40 mm		• For RC2 (SKG**) • Use a minimum of 3 screws (SKG certified) for SKG-certified frame parts
	Screw Ø 4.5 mm × 45 mm		• For RC3 (SKG***) • Use a minimum of 3 screws (SKG certified) for SKG-certified frame parts
	Screw Ø 3.9 mm	PVC	Steel reinforcement min. 1.5 mm wall thickness
	Screw Ø 4.2 mm		• Steel reinforcement min. 1.5 mm wall thickness • For RC2 (SKG**)

4.3 Assembly of sash components

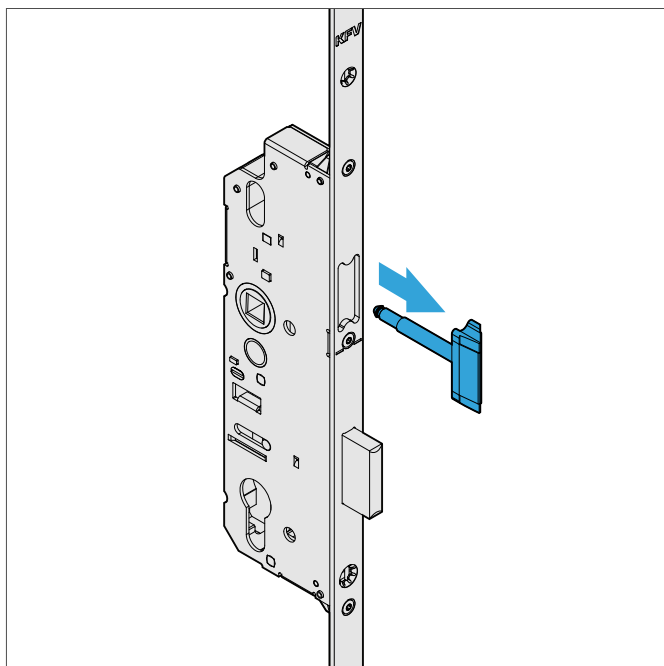
4.3.1 Changing the DIN orientation of the main lock latch

1. Compare the DIN orientation of the door with the latch and change over the latch if necessary.

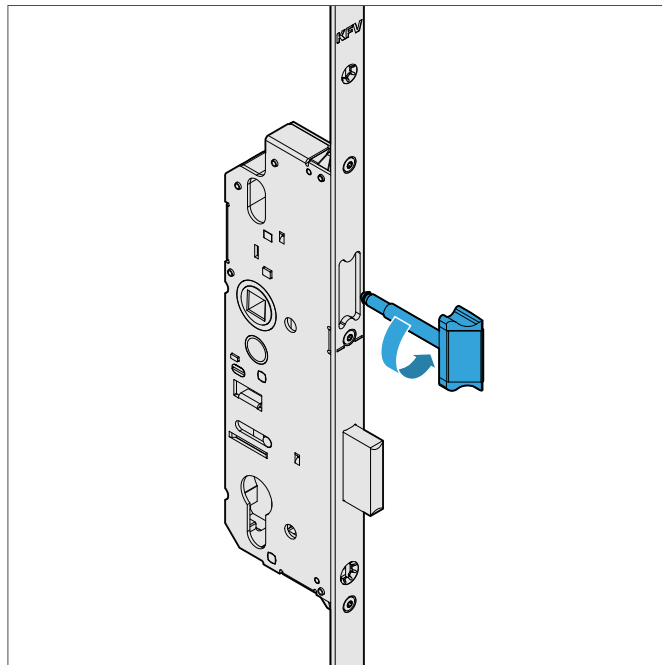
2. Insert the slotted screwdriver into the groove.



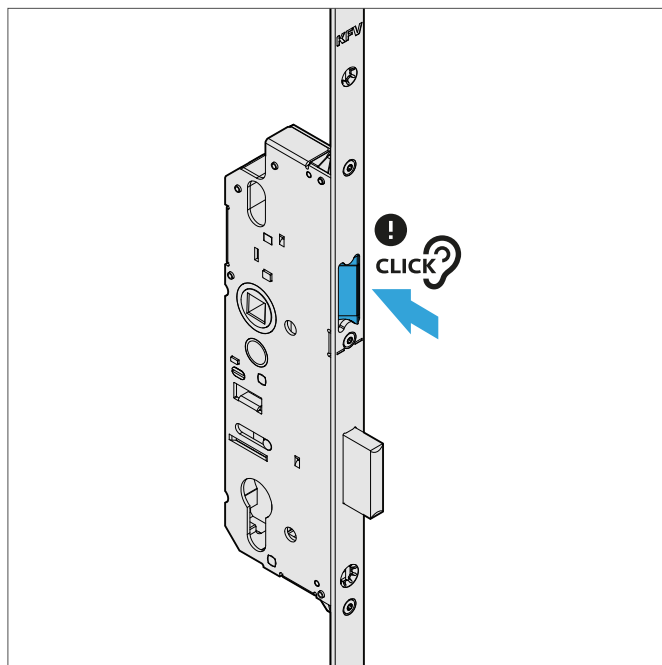
3. Pull out the latch.



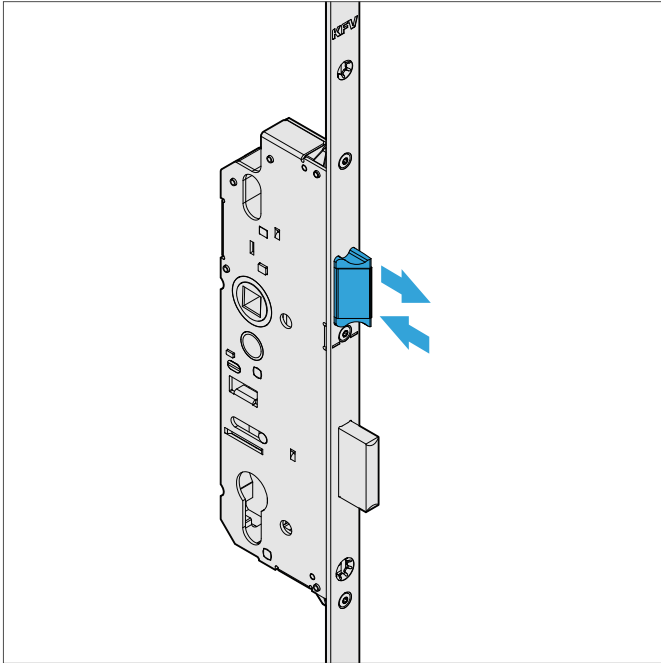
4. Rotate the latch through 180°.



5. Press the latch in until it engages.



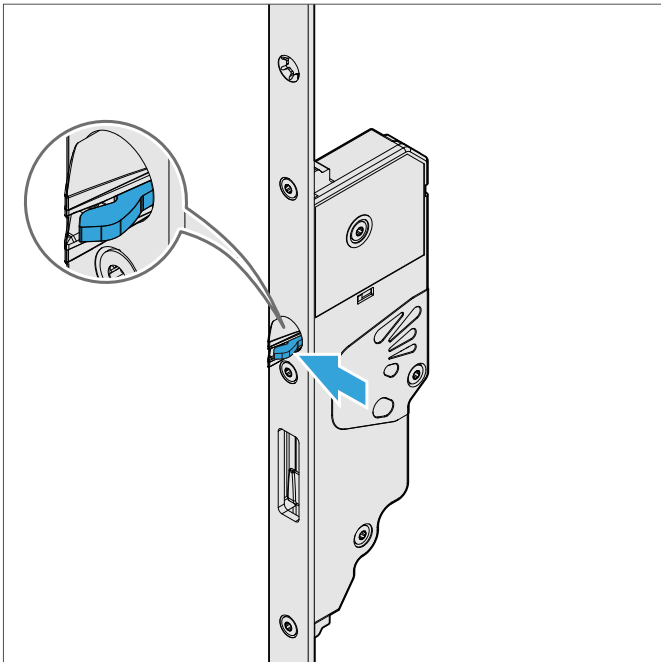
6. Press the latch into the gear box several times.



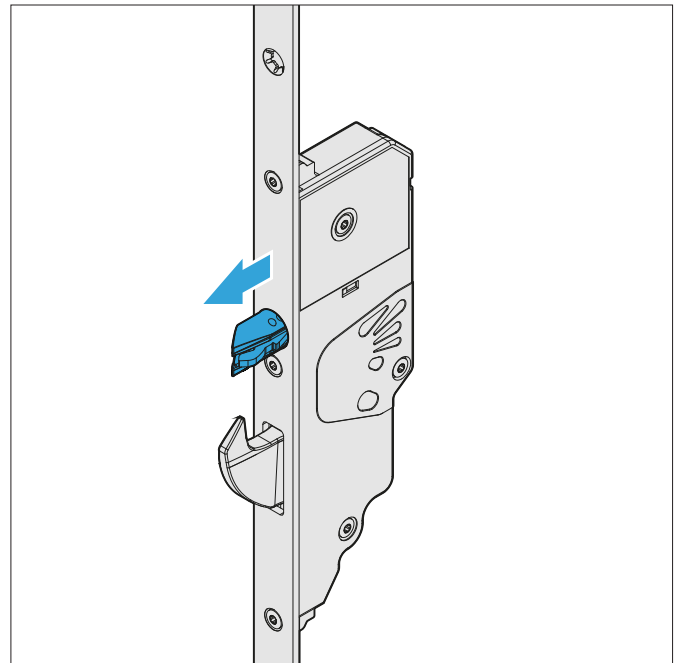
7. Check that the latch moves smoothly and independently.

4.3.2 Changing the DIN orientation of the falling bolt

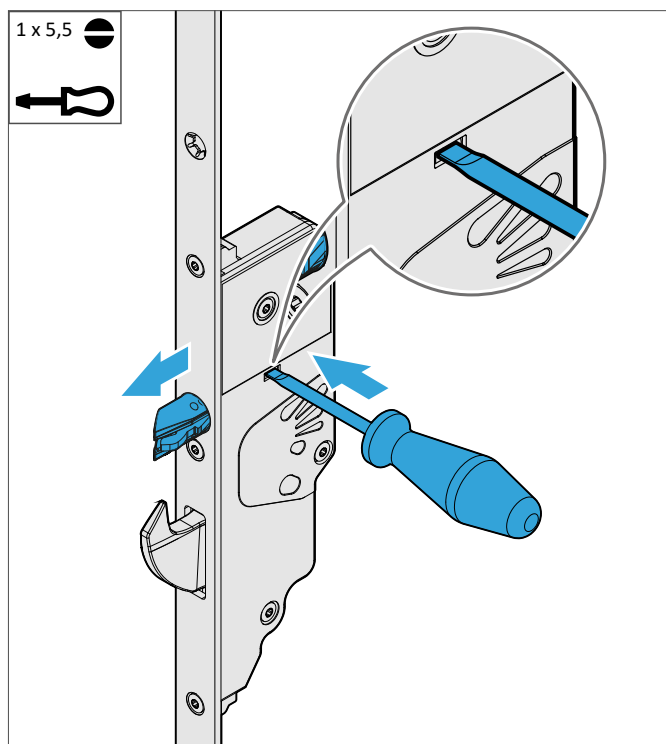
1. Compare the DIN orientation of the door with the falling bolt and change over the falling bolt if necessary.
2. Press the trigger of the falling bolt.



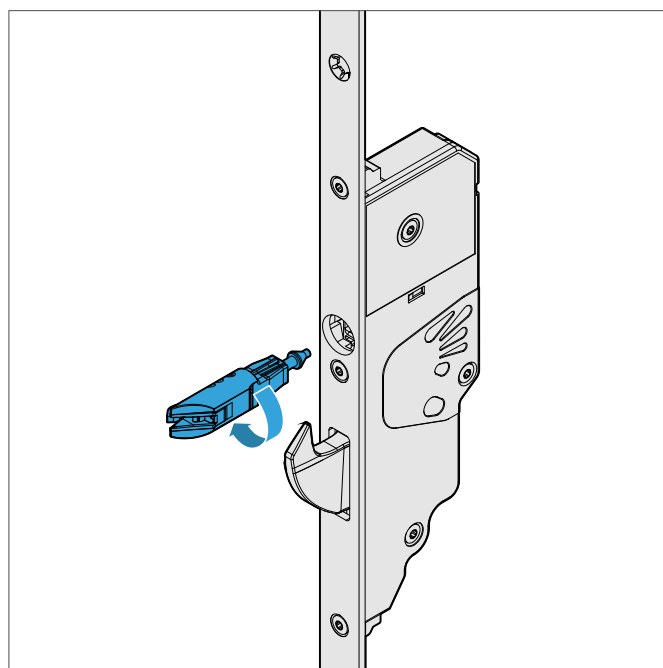
→ The falling bolt extends.



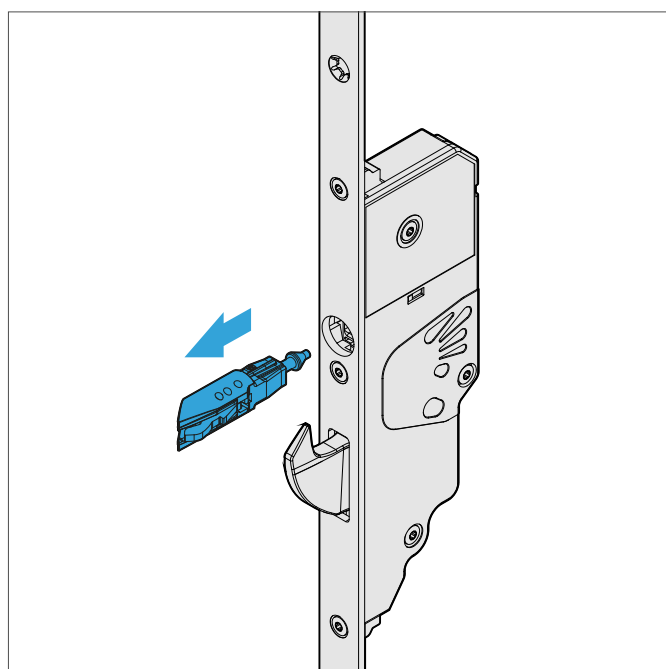
3. Insert the slotted screwdriver into the groove.



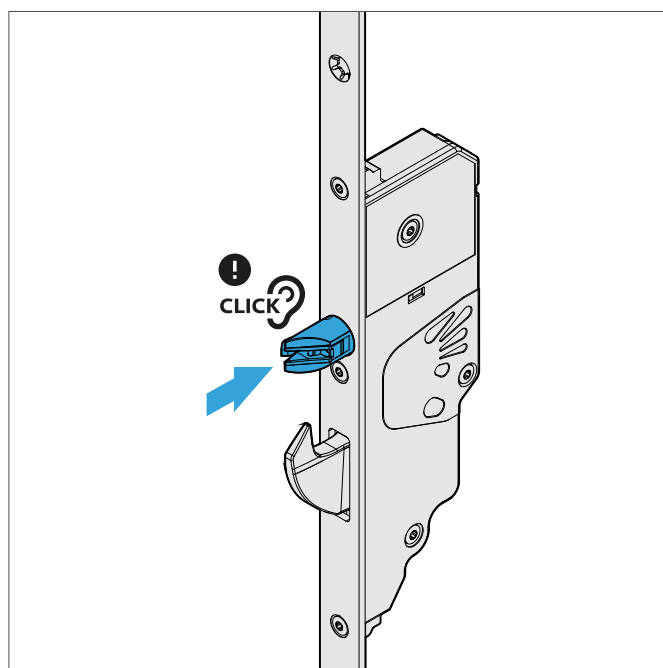
5. Rotate the falling bolt through 180°.



4. Pull out the falling bolt.

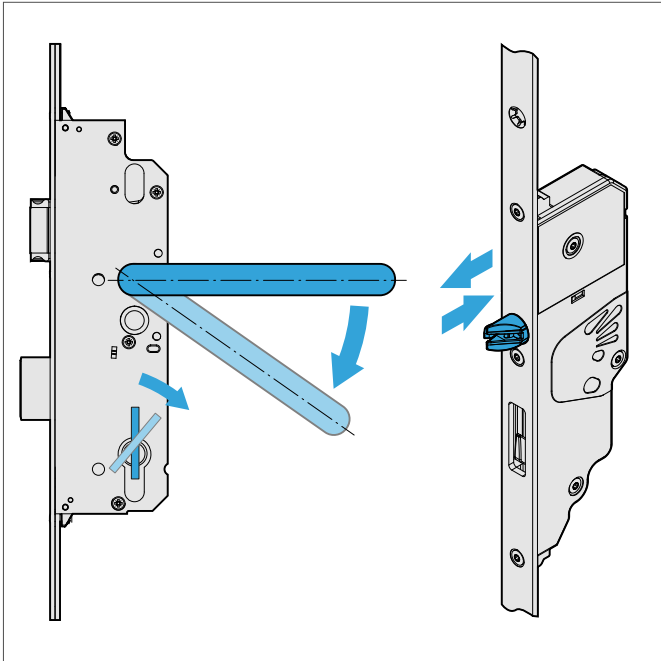


6. Press in the falling bolt until it engages.



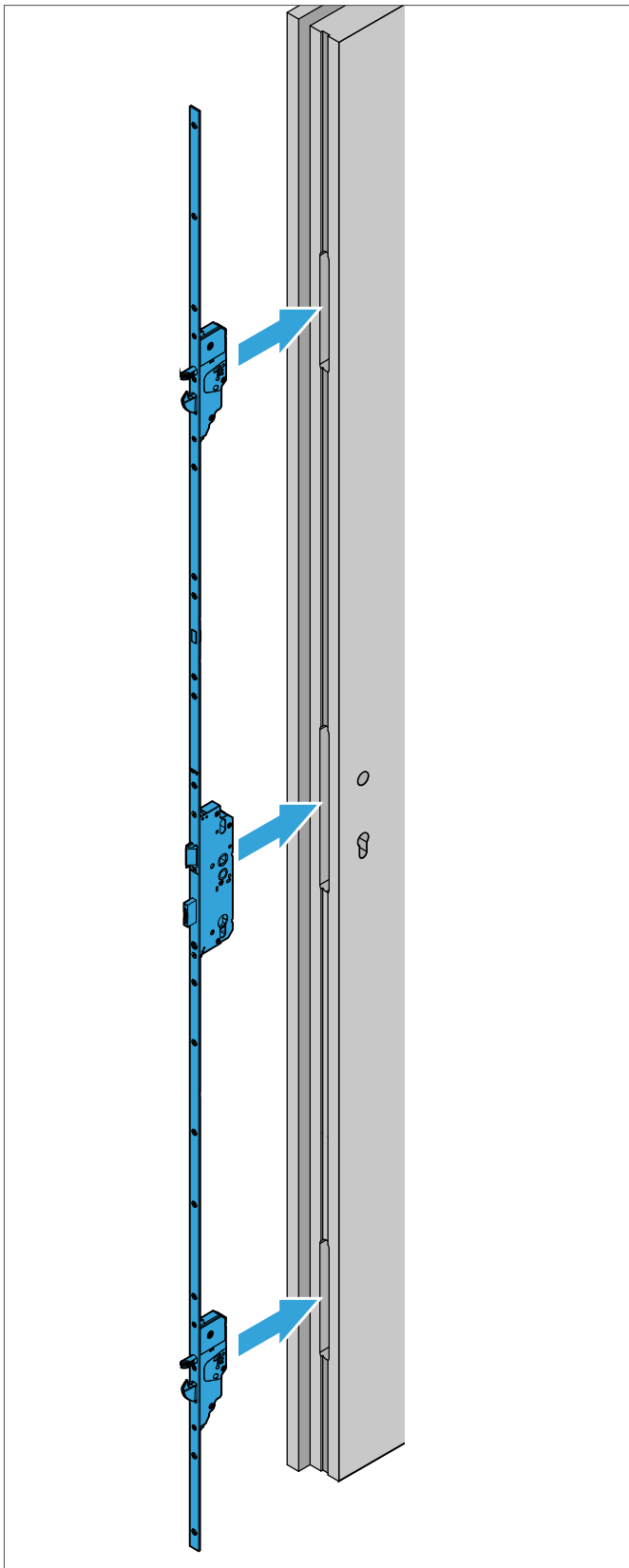
7. Insert a lever handle or a profile cylinder into the main lock. Activate the lever handle several times or turn the key of the profile cylinder several times in the unlocking direction.

→ Check that the falling bolts retract and extend smoothly and independently.

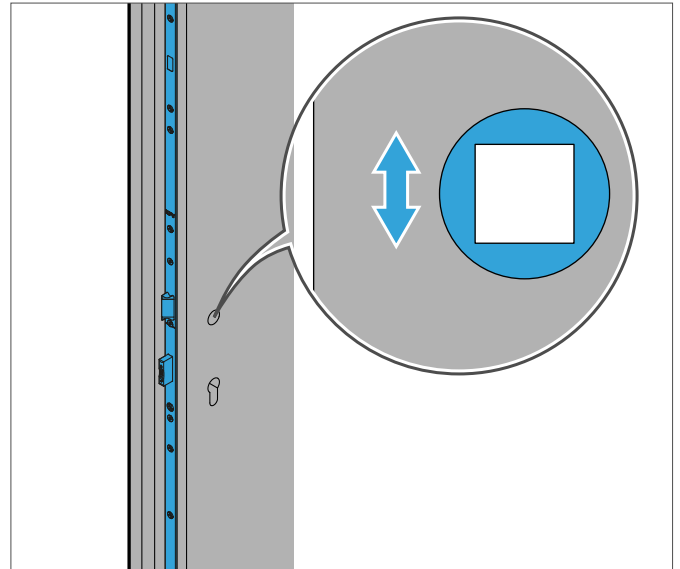


4.3.3 Screwing the AS 3600 into place

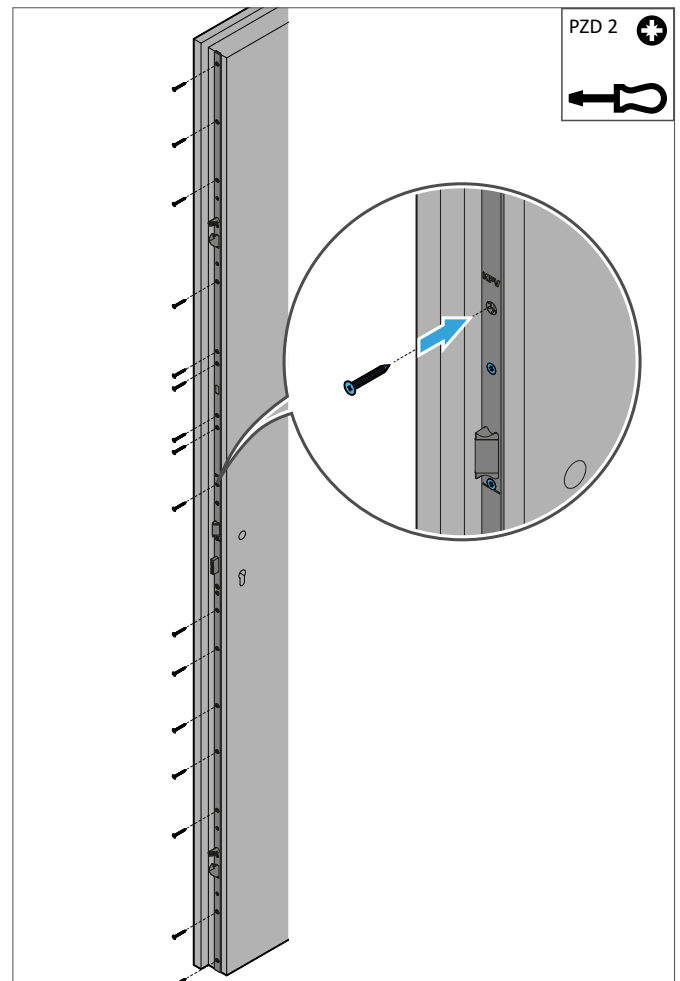
1. Insert the multi-point lock in the milled door leaf.



2. Adjust the multi-point lock vertically so that the handle spindle is centred to the hole for the lever handle.

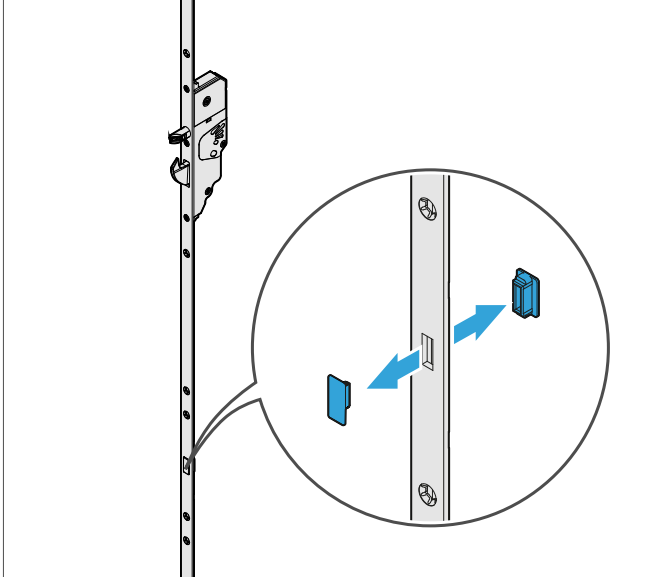


3. Screw the multi-point lock to the door leaf.

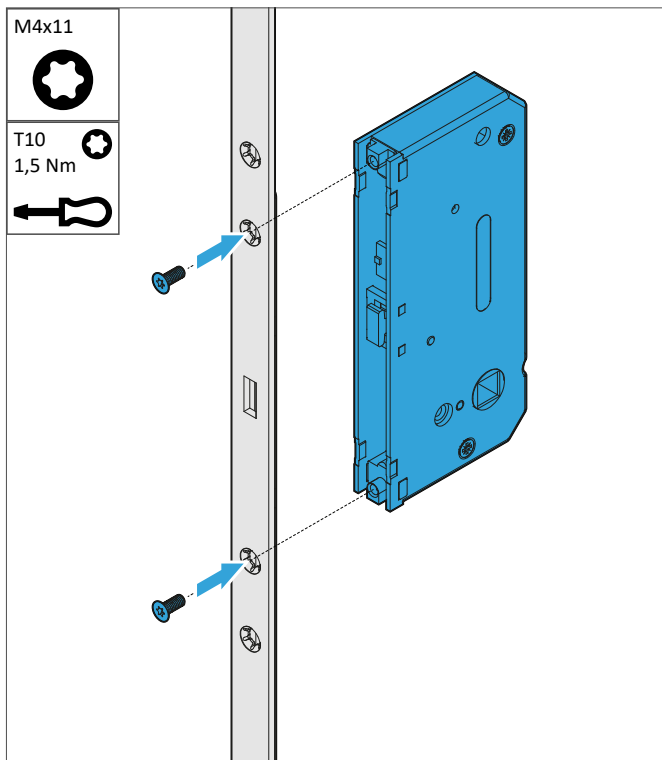


4.3.4 Screwing the AS 3600 with safety lock into place

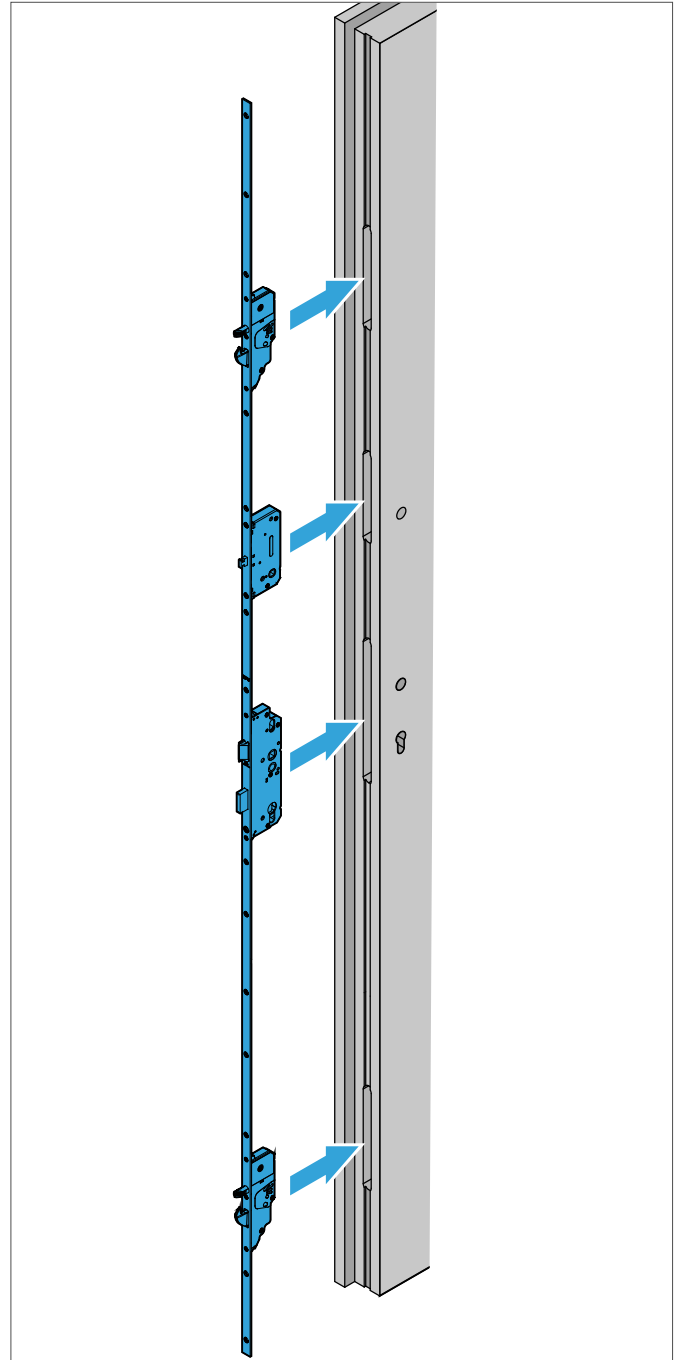
1. When retrofitting the multi-point lock with the T3 safety lock, remove the cover caps on the secondary sash.



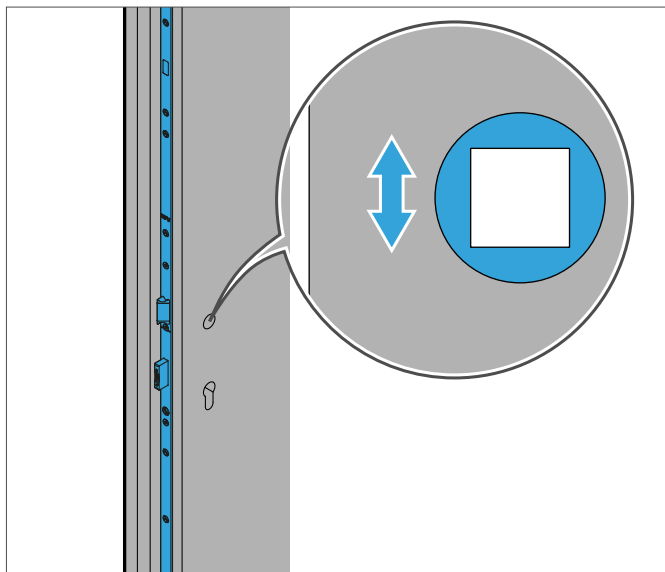
2. Fix the T3 safety lock to the secondary sash using the screws.



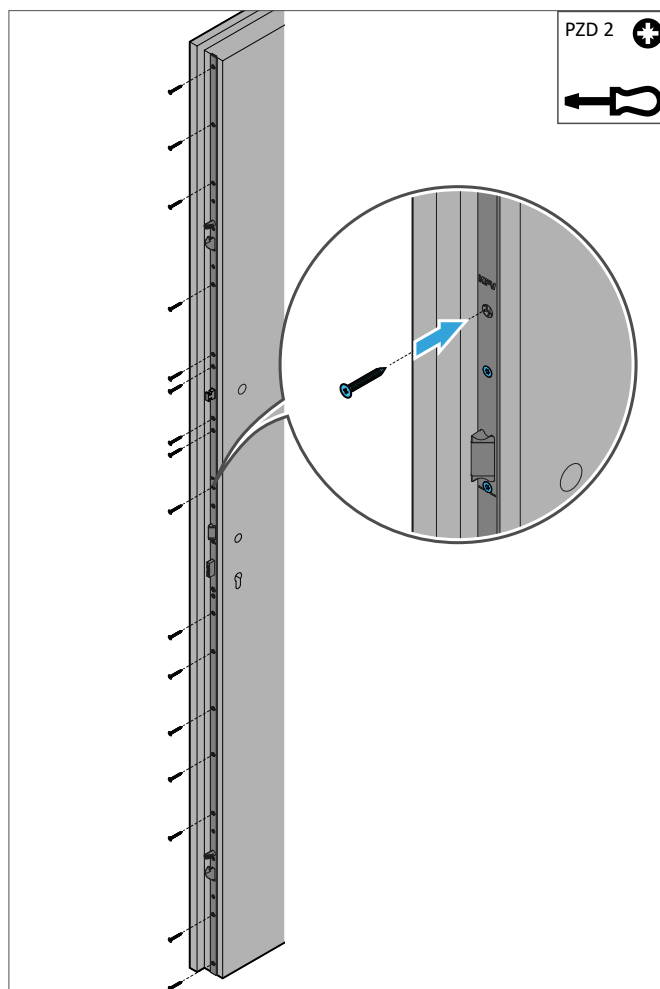
3. Insert the multi-point lock with the safety lock T3 or T4 in the milled door leaf.



4. Adjust the multi-point lock vertically so that the handle spindle is centred to the hole for the lever handle.



5. Screw the multi-point lock to the door leaf.



4.4 Assembly of handle set and cylinder lock

! NOTICE

Material damage due to improper assembly

You will damage the multi-point lock if you do not install the handle set properly.

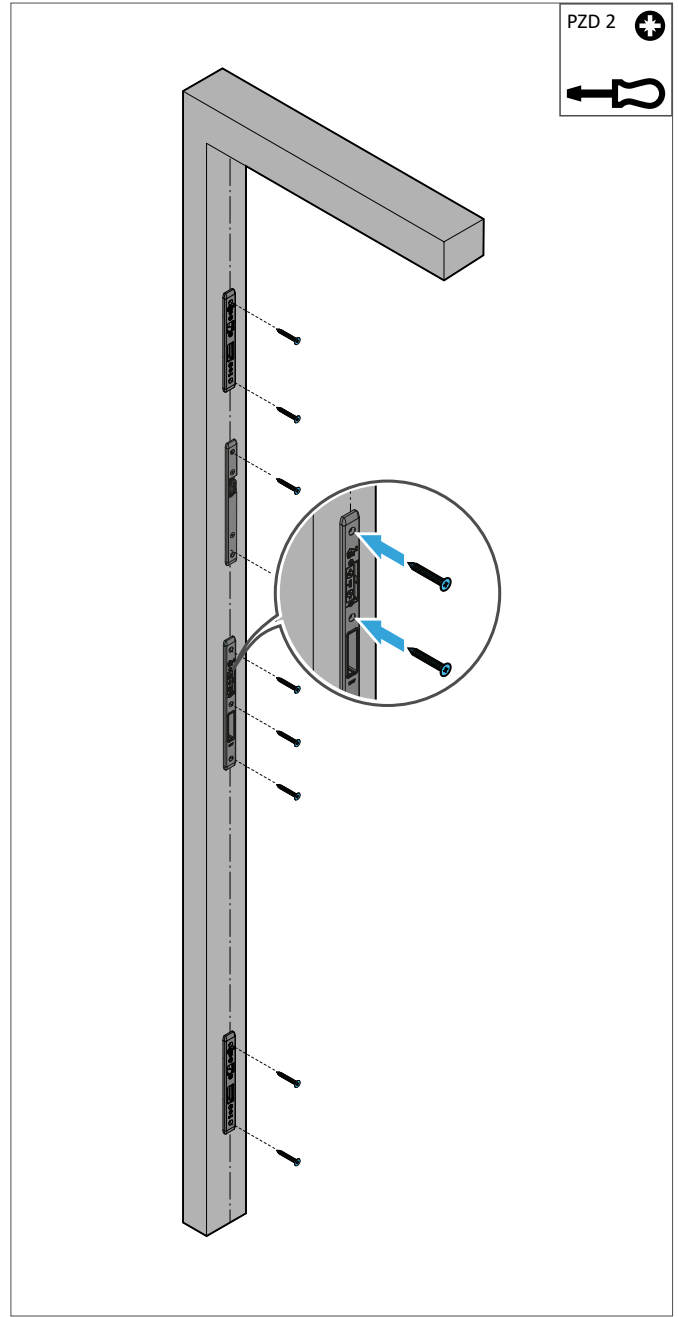
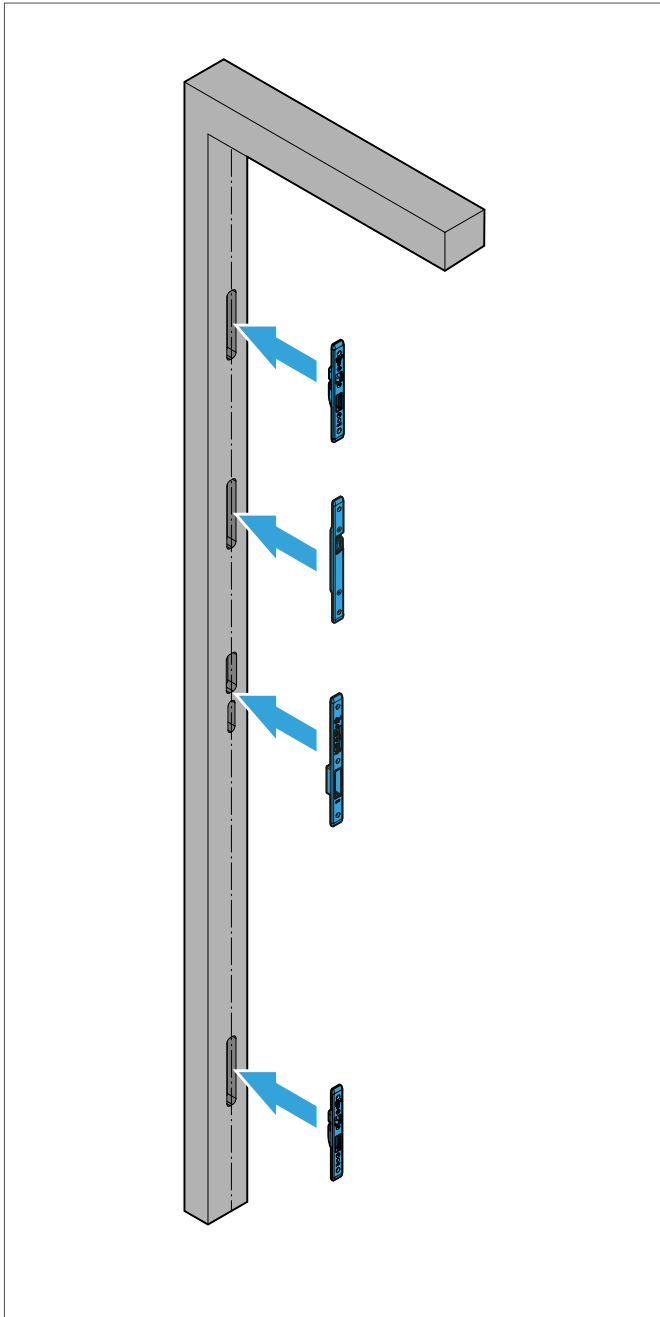
- Once the gear box is installed, do not drill through the door leaf.
- Do not knock the square spindle of the lever handle into the locking groove with force.

1. Install the handle set and the cylinder lock according to the producer's instructions.

4.5 Assembling the frame parts

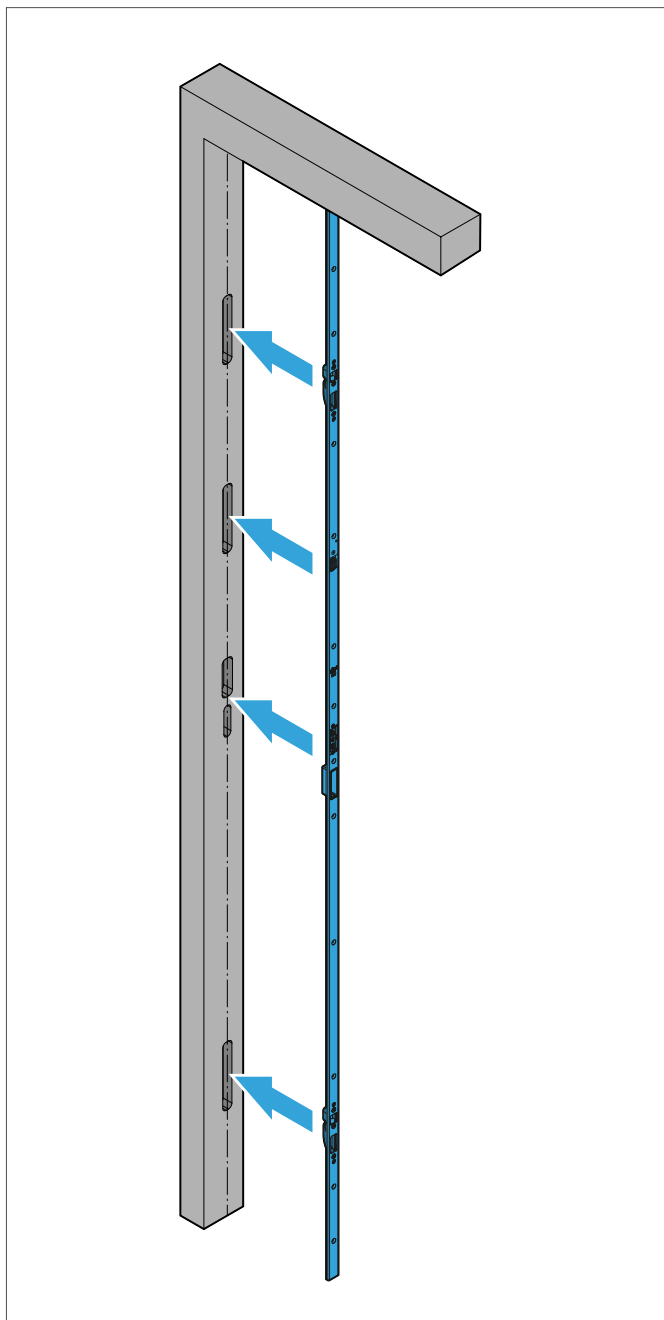
4.5.1 Screwing on the striker plates

1. Insert the striker plates into the milled door frame.
2. Screw the striker plates to the door frame.

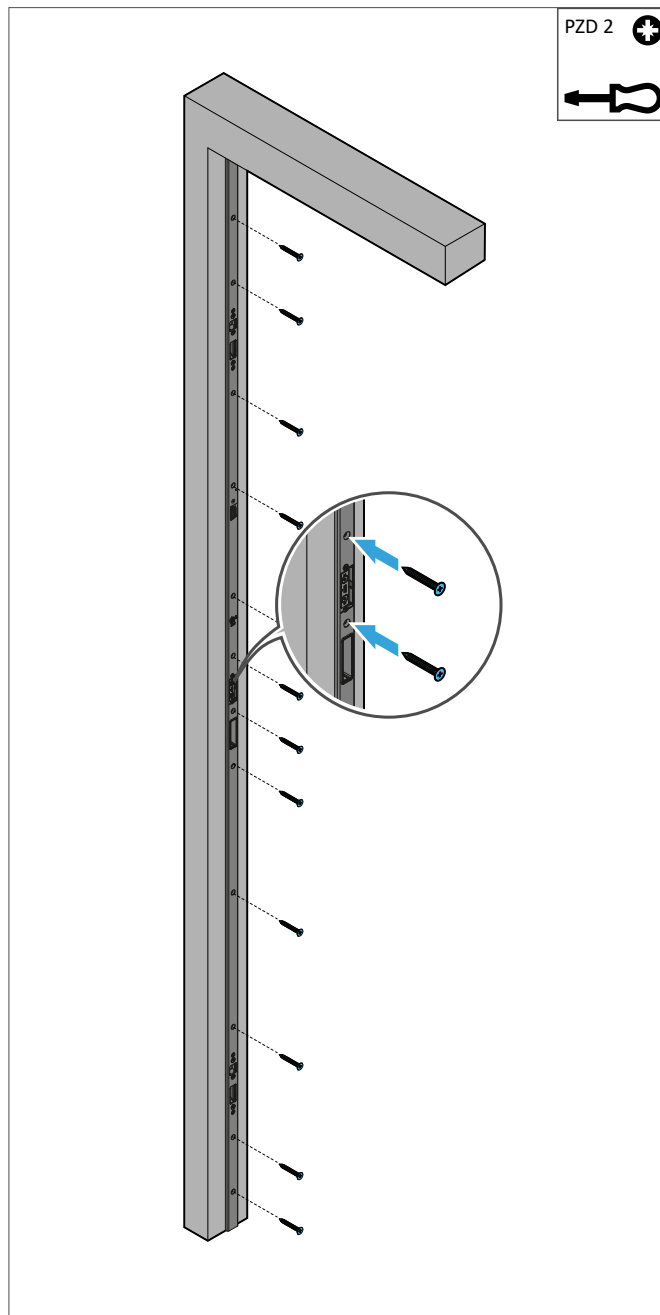


4.5.2 Screwing on the locking rail

1. Insert the locking rail into the milled door frame.



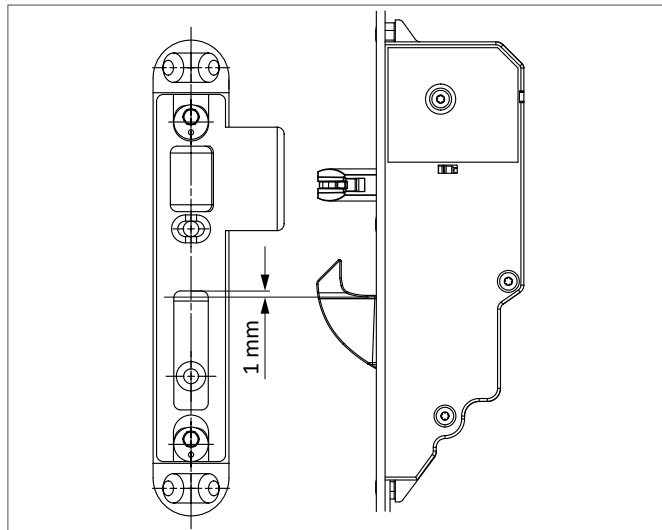
2. Screw the locking rail to the door frame.



4.5.3 Installing SKG-certified frame parts for auxiliary boxes

1. Insert the frame parts into the milled door frame.
2. Fix the frame parts in the frame with the prescribed screws (see page 25).
3. Install the door, ensuring that the interval between the hook bolt and frame part is no greater than 1 mm.
This ensures that the hook bolt moves fully into

the locking position and achieves the specified minimum dimension for engagement in the frame part.



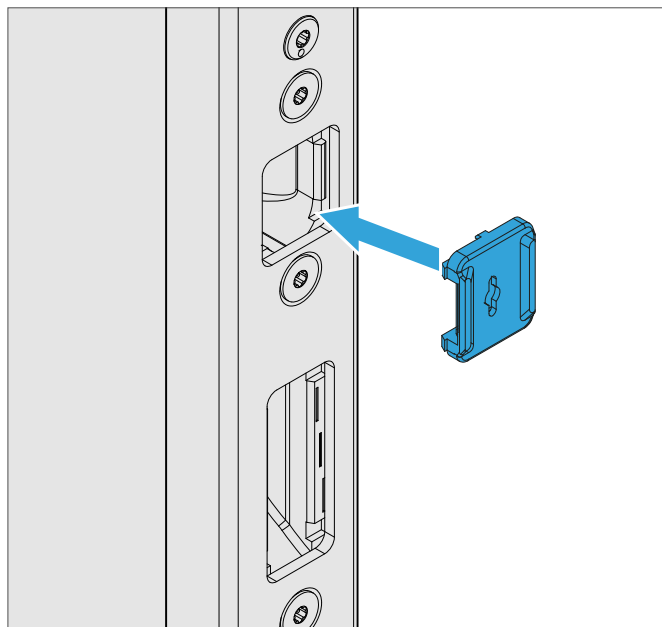
4. Check that the hook bolt moves completely into the locking position and release position with ease.

4.6 Attaching the transit supports

Prerequisite

- The door is assembled and ready for transit.

1. Insert the transit supports for the falling bolts.



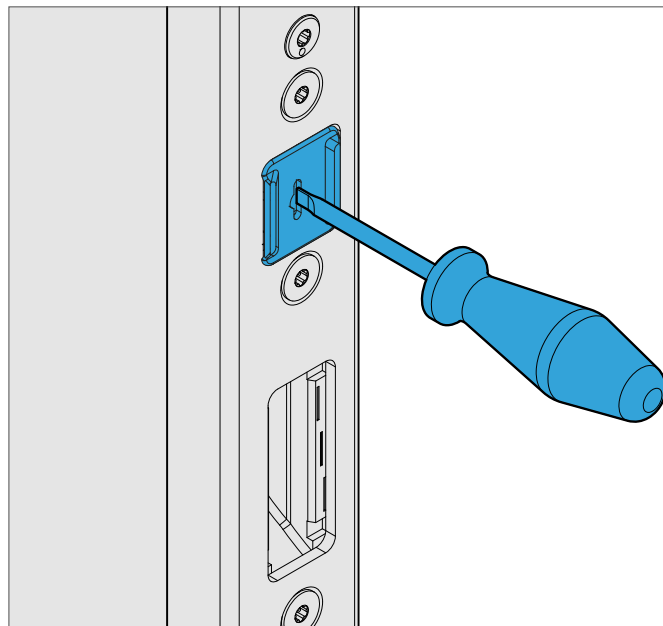
5 Commissioning

5.1 Removing the transit supports

Prerequisite

- The door is installed in the building.

1. Use a slotted screwdriver to remove the transit supports and dispose of them.

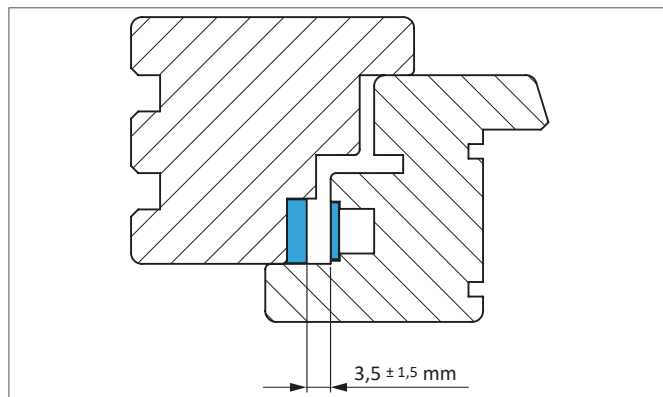


5.2 Adjusting the residual airgap

The function of the multi-point lock is guaranteed for the defined residual airgap.

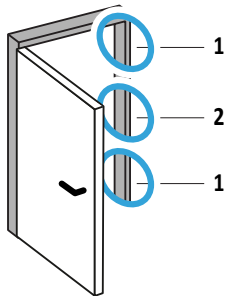
1. Follow the assembly instructions of the producer of the door hinge.

2. Adjust the residual airgap between secondary sash and frame part.



5.3 Adjustment of the frame parts

Position of the frame parts



1	Q adjustments
2	Replacement part

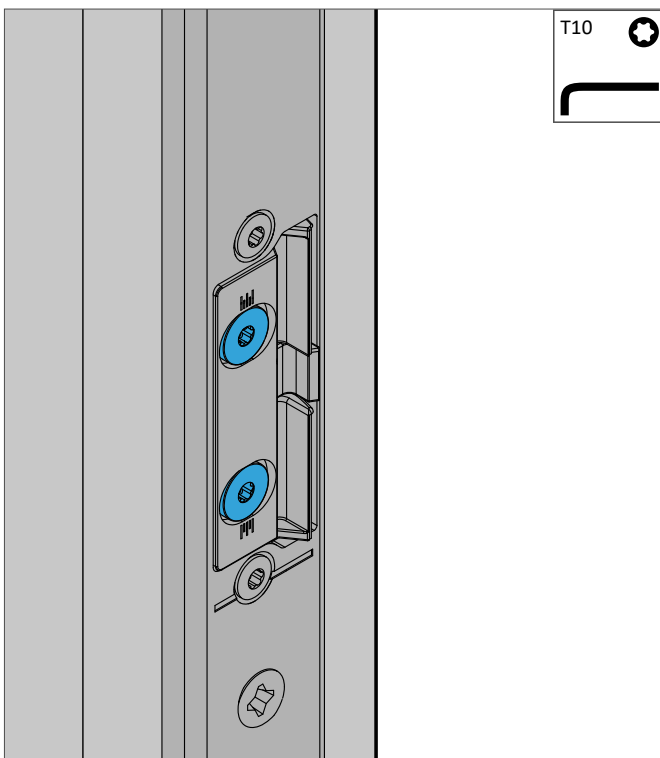
1. Adjust the pressure on the door seal via the replacement part and the Q adjustments in the frame parts.

5.3.1 Reduce the pressure on the door seal

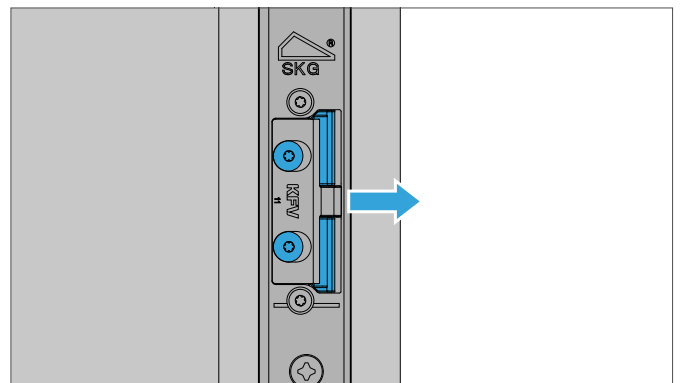
Prerequisites

- The door does not close.
- The door does not lock.

1. Loosen the two adjustment screws of the replacement part.

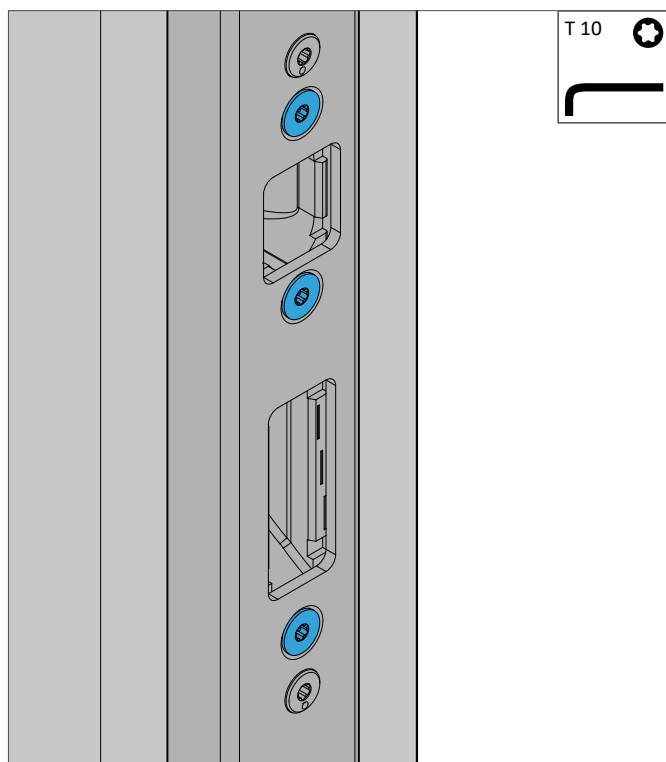


2. Adjust the replacement part in the direction of the door leaf.

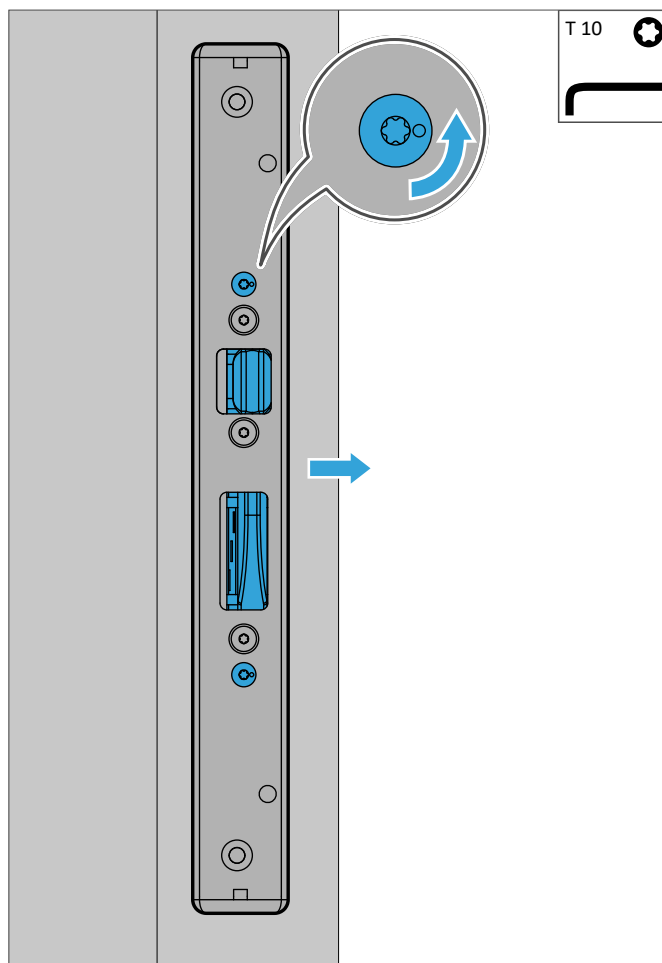


3. Tighten the two adjustment screws.

4. Loosen the 3 fixing screws of the Q-adjustment.



5. Turn both eccentric screws max. 90° from the neutral position (marking pointing downwards) in an anti-clockwise direction.



→ The Q-adjustment moves up to 2.5 mm in the direction of the door leaf.

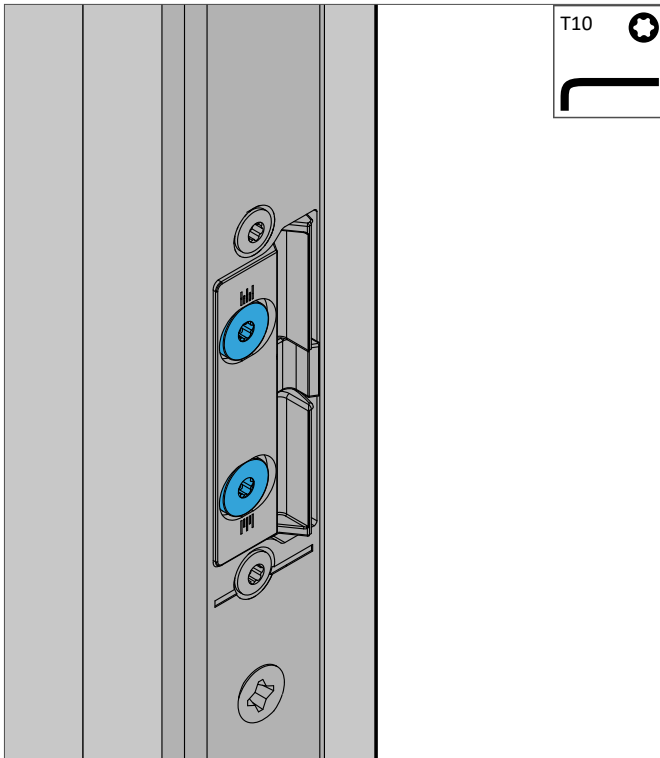
6. Tighten the 3 fixing screws of the Q-adjustment.
7. Check that the door closes and locks. Repeat these steps if the door does not close and lock.

5.3.2 Increase the pressure on the door seal

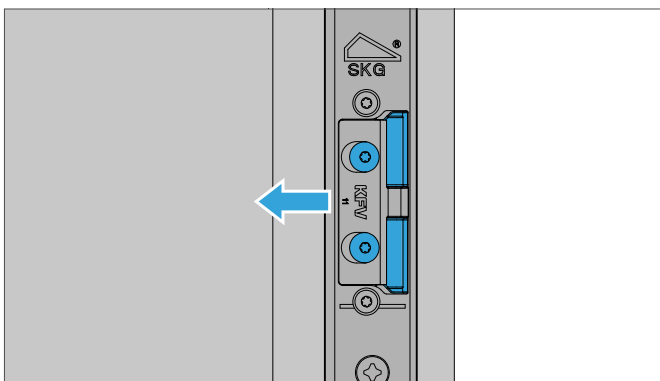
Prerequisites

- The door closes with play.
- The door locks with play.

1. Loosen the two adjustment screws of the replacement part.

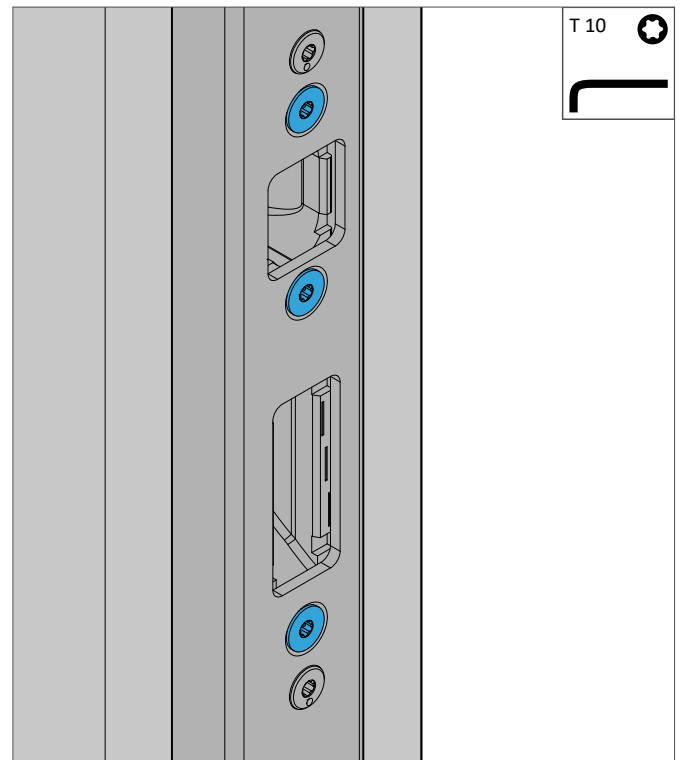


2. Adjust the replacement part in the direction of the door frame.

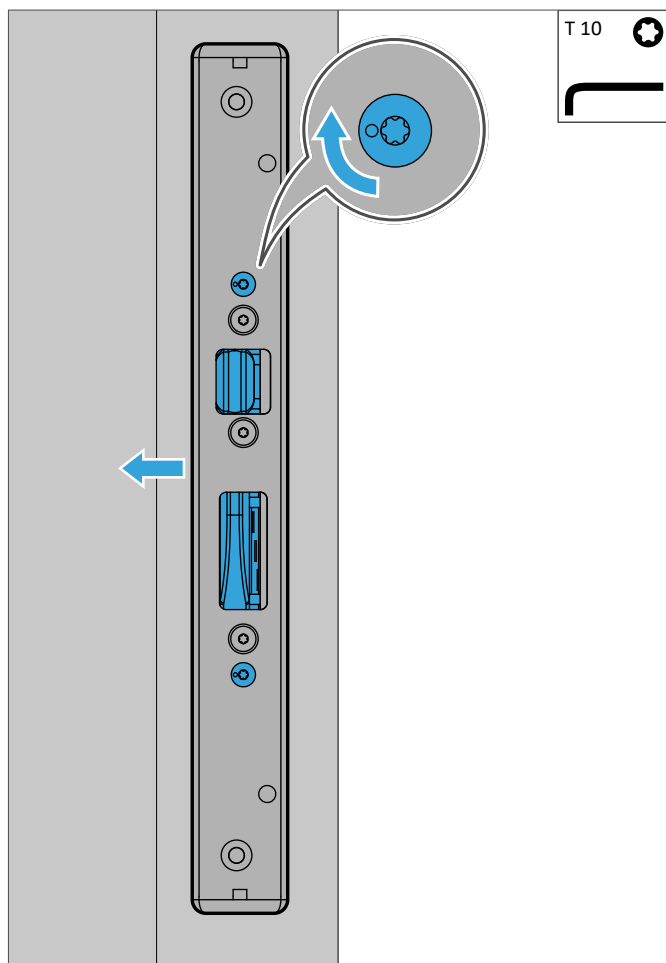


3. Tighten the two adjustment screws.

4. Loosen the 3 fixing screws of the Q-adjustment.



5. Turn both eccentric screws max. 90° from the neutral position (marking pointing downwards) in a clockwise direction.



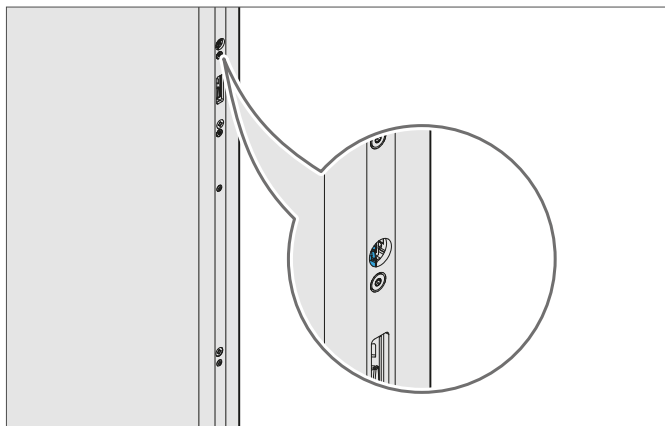
→ The Q-adjustment moves up to 2.5 mm in the direction of the door frame.

6. Tighten the 3 fixing screws of the Q-adjustment.
7. Check that the door closes and locks without play. Repeat these steps if the door closes and locks with play.

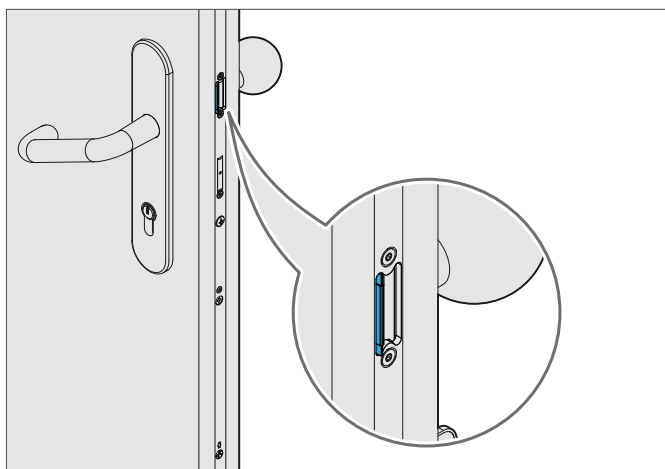
5.4 Functional test

5.4.1 Checking the lever handle and latch function

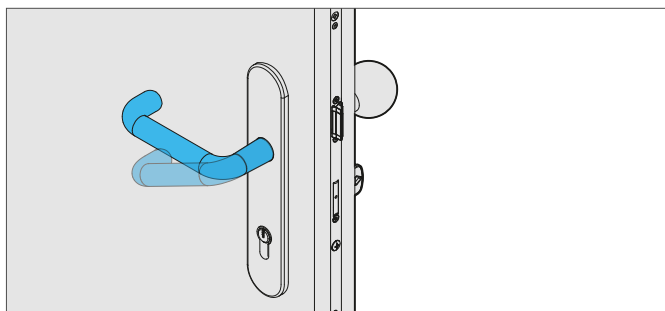
1. Open the door.
2. Push the lever handle downwards as far as it will go and hold down.
3. Check that the falling bolts are fully retracted.



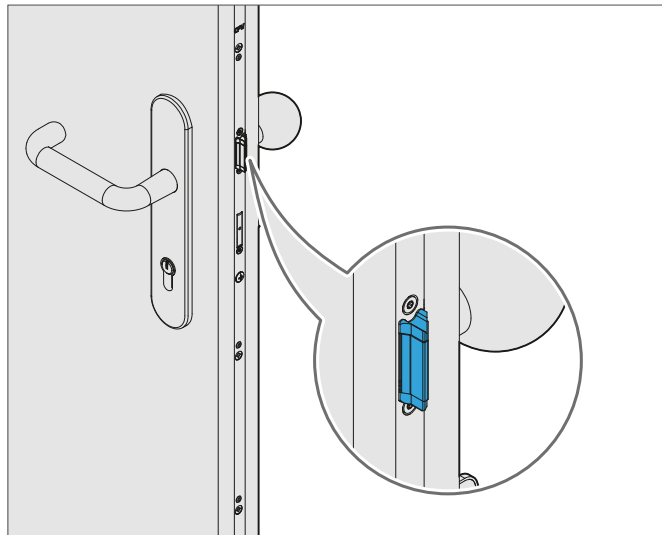
4. Check that the main lock latch is fully retracted.



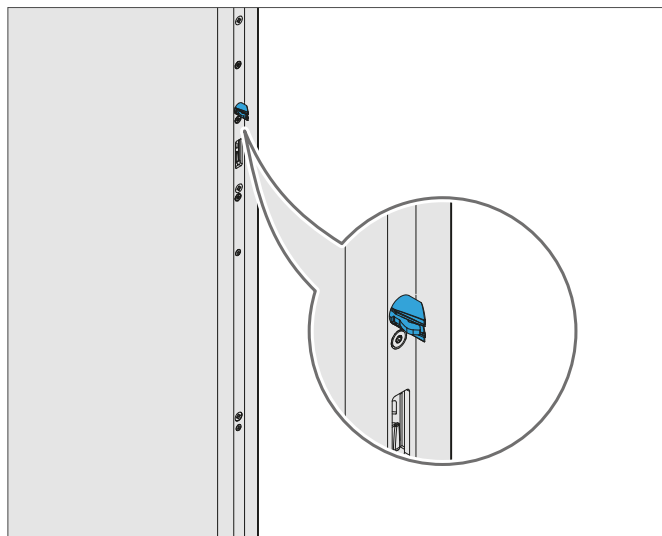
5. Release the lever handle.
6. Check that the lever handle returns to its original position independently.



7. Check that the main lock latch is fully extended.



8. Check that the falling bolts have moved to the triggering position.

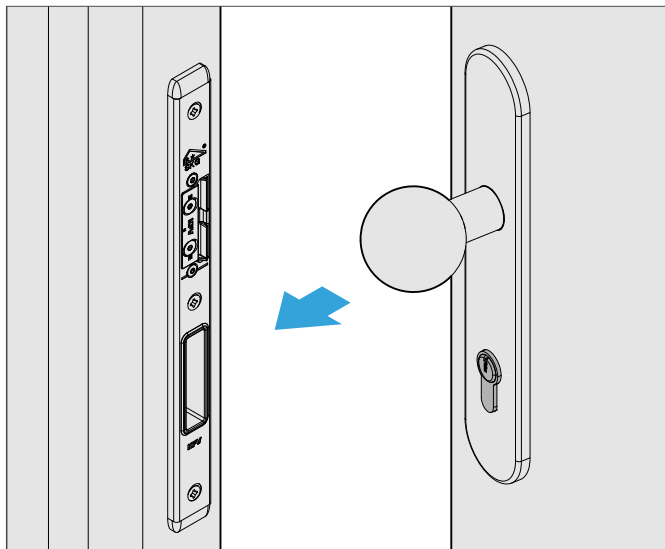


5.4.2 Checking the operation of the door

Prerequisite

- The door is open.

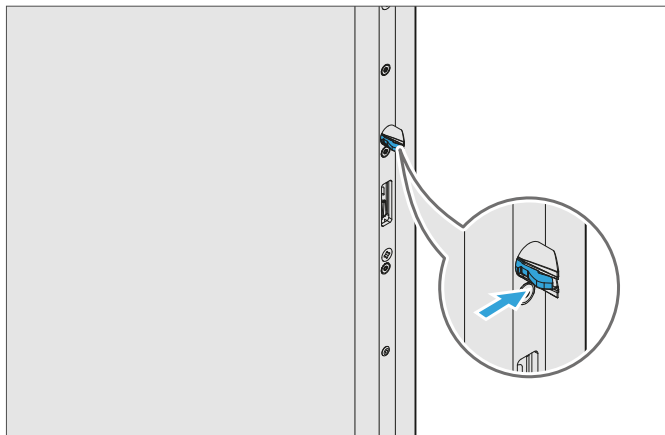
1. Close the door.



2. Check that the door closes smoothly and the main lock latch engages in the replacement part.
3. Push the lever handle downwards as far as it will go.
4. Check that the lever handle can move smoothly.
5. Check that the door opens smoothly.

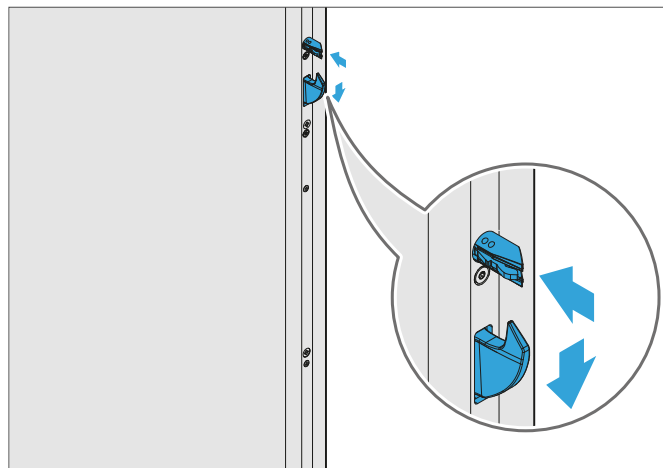
5.4.3 Checking the locking elements

1. Open the door.
2. Press the trigger on one of the falling bolts.



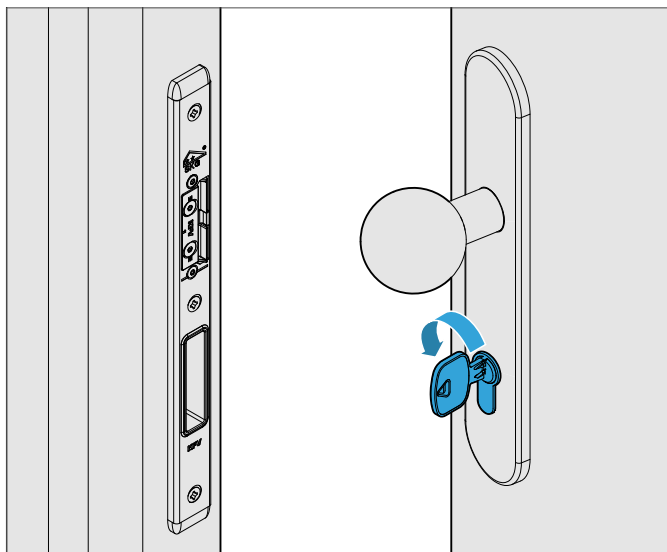
3. Check that the hook bolts and falling bolts extend smoothly and fully.

4. Push against the hook bolts and the falling bolts.

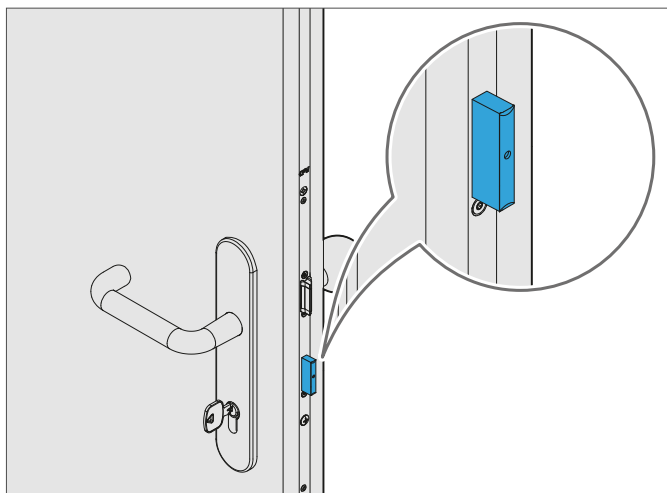


5. Check that the hook bolts and falling bolts cannot be pushed back.

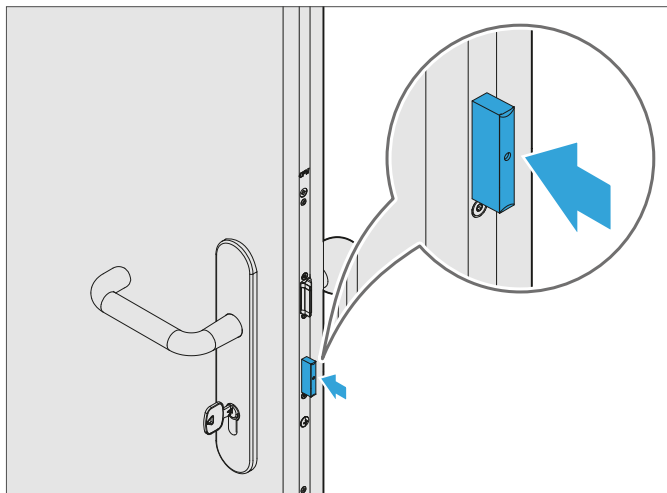
6. Turn the key in the locking direction as far as the end position.



7. Check that the main lock bolt extends smoothly and fully.

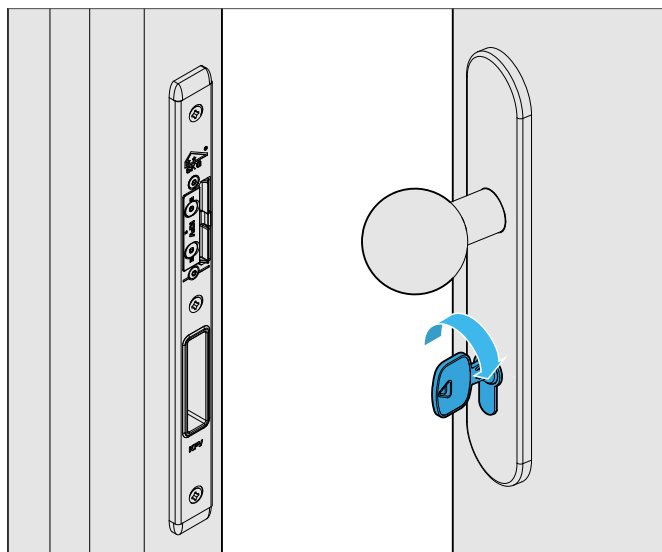


8. Push against the main lock bolt.

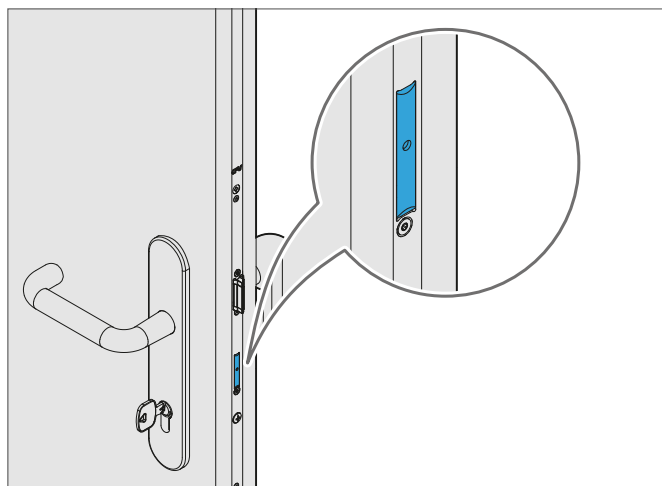


9. Check that the main lock bolt cannot be pushed back.

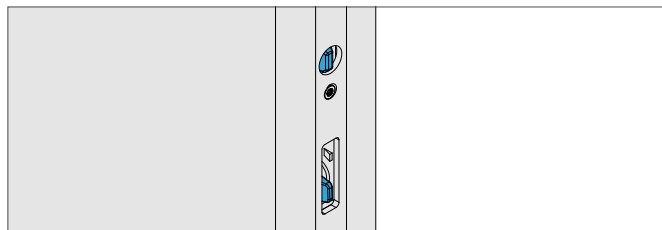
10. Turn the key in the unlocking direction.



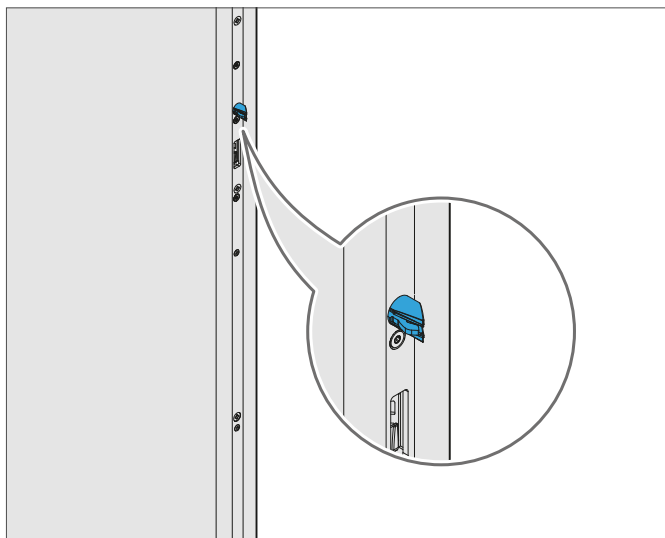
11. Check that the main lock bolt has retracted smoothly and fully.



12. Check that the hook bolts and falling bolts have retracted smoothly and fully.



13. Check that the falling bolts then move into the triggering position.



14. Close the door.

15. Check that the hook bolts and falling bolts audibly extend.

16. Turn the key in the locking direction.

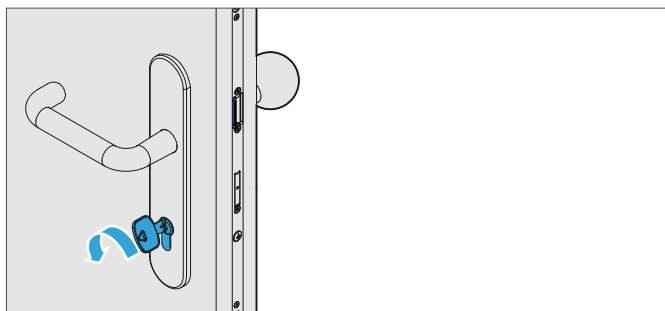
17. Check that the lever handle is blocked.

18. Turn the key in the unlocking direction.

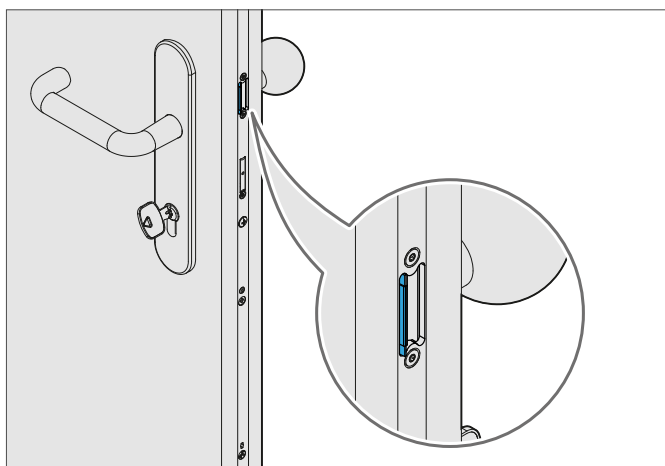
19. Check that the door opens smoothly.

5.4.4 Checking the cylinder operated lock

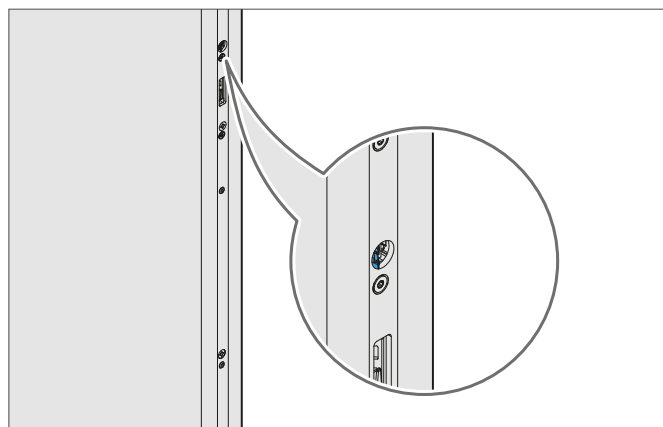
1. Open the door.
2. Turn and hold the key in the unlocking direction.



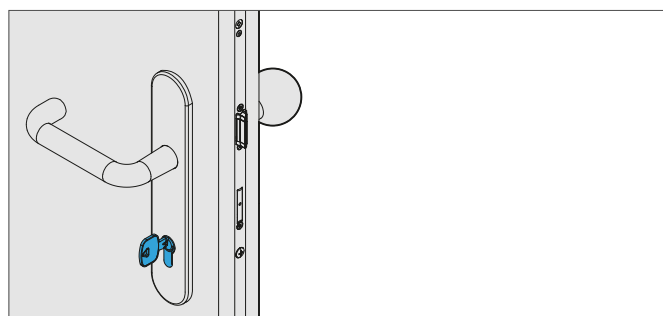
3. Check that the main lock latch is fully retracted.



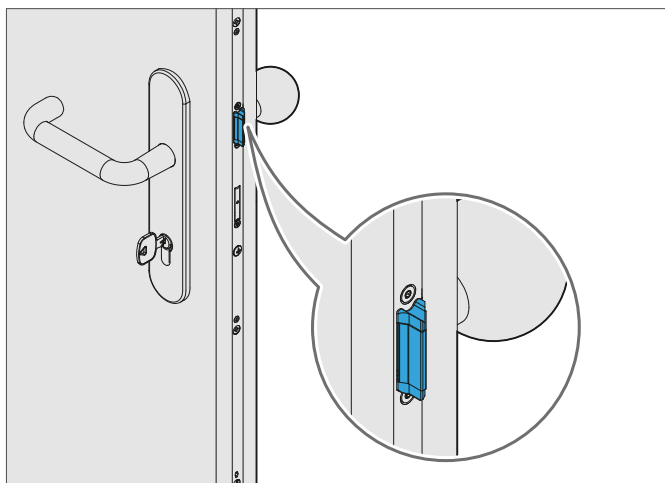
4. Check that the falling bolts are fully retracted.



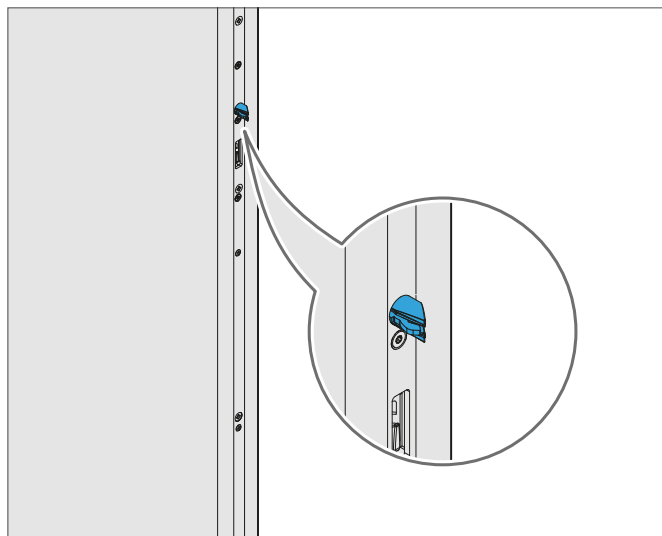
5. Release the key.



6. Check that the main lock latch is fully extended.



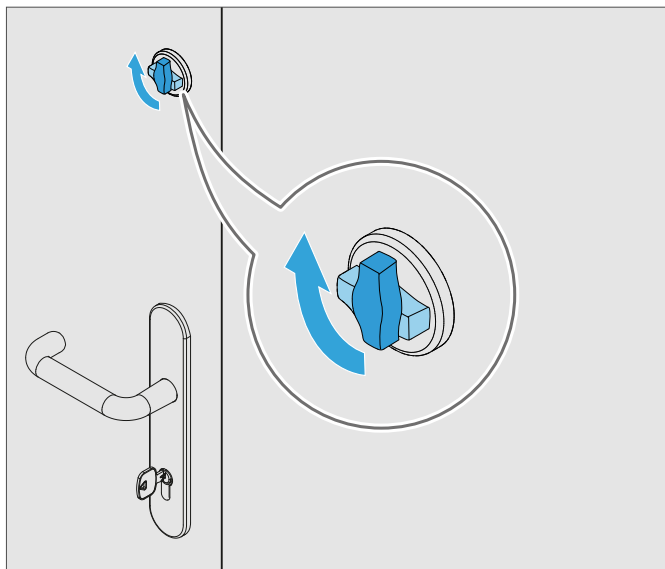
7. Check that the falling bolts have moved to the triggering position.



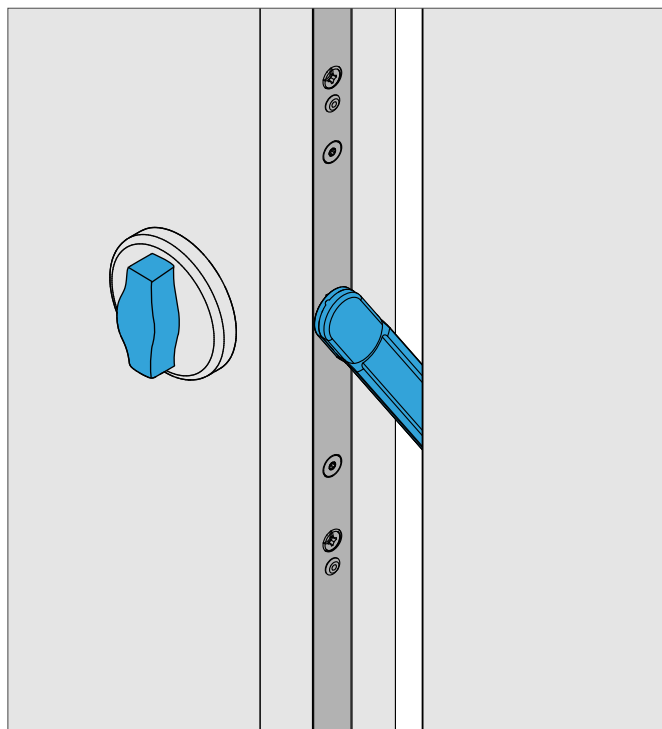
8. Close the door.
9. Turn and hold the key in the unlocking direction.
10. Check that the door opens smoothly.

5.4.5 Checking activation of the safety lock T3 or T4

1. Close the door.
2. Turn the swivel knob in the locking direction.



3. Open the door.

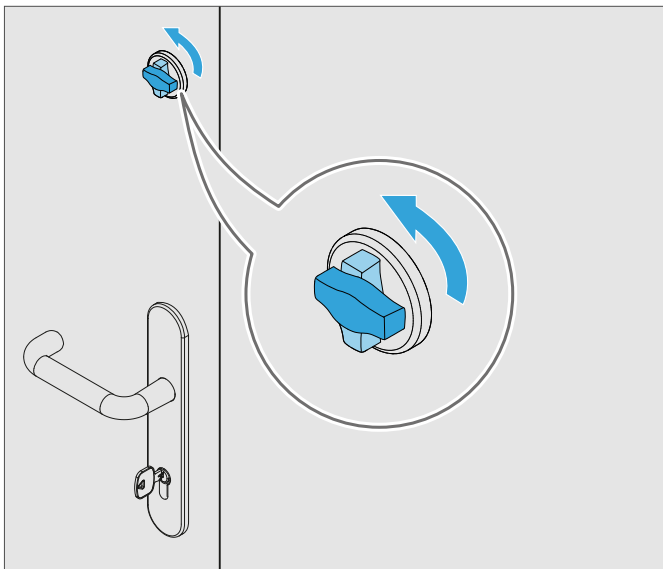


5.4.6 Checking deactivation of the safety lock T3 and T4 from inside

Prerequisite

- The safety lock T3 or T4 is activated.

1. Turn the swivel knob in the unlocking direction.



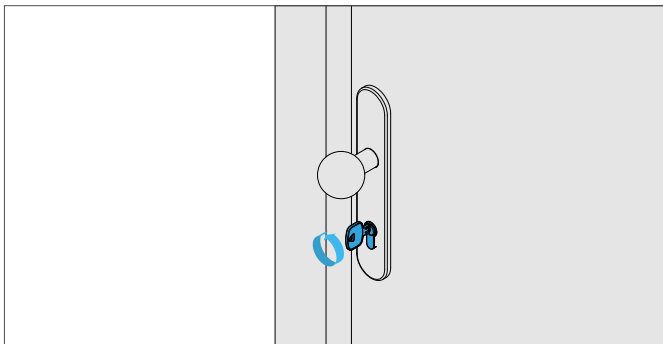
2. Check that the deadbolt of the safety lock retracts.
3. Open the door.
4. Check that the door opens fully and the opening gap of the door is not restricted by the blocking clip.

5.4.7 Checking deactivation of the safety lock T4 from outside

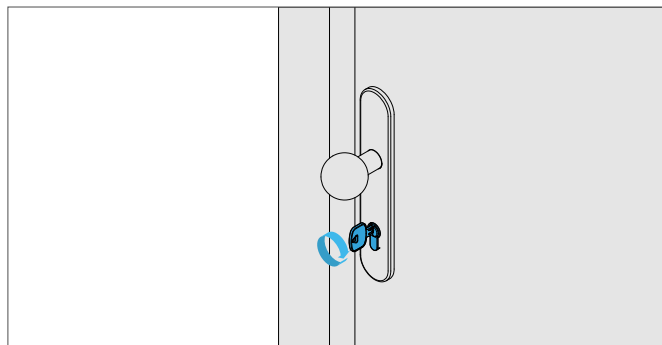
Prerequisite

- The safety lock T4 is activated.

1. Lock the door from outside.



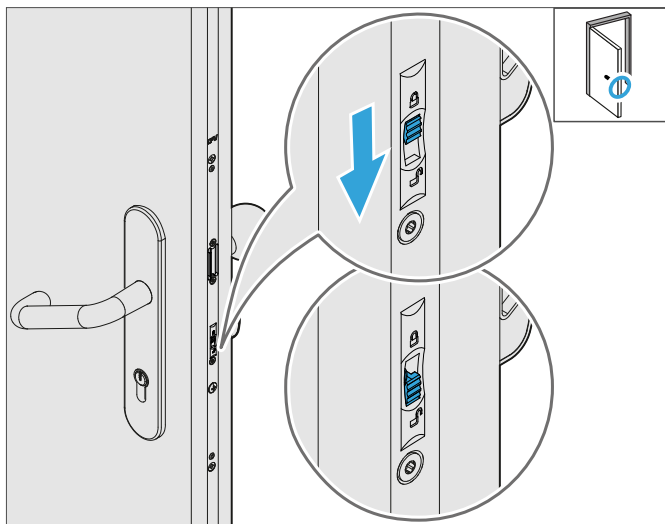
2. Release the door again from outside.



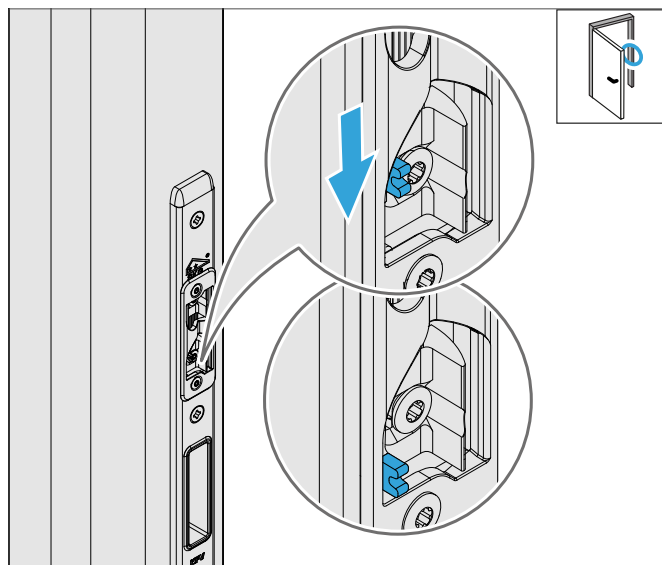
3. Open the door.
4. Check that the door opens fully and the opening gap of the door is not restricted by the blocking clip.

5.4.8 Checking activation of the daytime release

1. Open the door.
2. Push the lever handle downwards as far as it will go and hold in this position.
3. Move the slider in the main lock bolt downwards.



4. Move the sliding handle on the day latch downwards.



5. Close the door.
6. Check that the main lock latch engages in the day latch.
7. Push against the door in the opening direction.
8. Check that the door opens smoothly.

5.4.9 Checking deactivation of the daytime release

1. Open the door.
2. Push the lever handle downwards as far as it will go and hold in this position.
3. Move the slider in the main lock bolt upwards.
4. Move the sliding handle on the day latch upwards.
5. Close the door.
6. Push against the door in the opening direction.
7. Check that the door remains closed.

6 Troubleshooting

Contact the producer (see page 4) if this table does not describe the error.

Problem	Possible cause	Solution
The lever handle does not return to its original position.	The handle set is not correctly positioned.	1. Loosen the screwing of the handle set. 2. Fix the handle set according to the producer's instructions.
	The handle spindle is not accurately positioned.	1. Check the milling and drilling dimensions. (see page 20) 2. If necessary, rework the routed pockets and holes.
	The product is defective.	Replace the product.
The key cannot be pulled out.	The cylinder lock is defective.	Contact the producer of the cylinder lock.
The door is stiff when locking and releasing.	The latch and the deadbolt of the main lock do not run smoothly into the striker plate or into the locking rail.	1. Adjust the frame parts (see page 37). 2. Carry out the functional test (see page 41).
	The hook bolts and the falling bolts of the auxiliary boxes do not run smoothly into the striker plate or into the locking rail.	1. Adjust the frame parts (see page 37). 2. Carry out the functional test (see page 41).
	The routed pockets do not comply with the specified dimensions.	1. Check the milling dimensions (see page 18). 2. If necessary, rework the routed pockets.
	The product is defective.	Replace the product.
	The deadbolt of the safety lock does not run smoothly into the blocking clip.	Check the dimensions of the residual airgap (see page 36).
The triggers of the falling bolts do not trigger the locking part.	The product is defective.	Replace the product.
When the door is open, the deadbolt is difficult or impossible to move.	The handle set is incorrectly installed.	1. Loosen the screwing of the handle set. 2. Fix the handle set according to the producer's instructions.
	The routed pockets are not accurately positioned.	1. Check the milling and drilling dimensions (see page 18). 2. If necessary, rework the routed pockets and holes.
When the door is closed, the deadbolt is difficult to move.	The striker plate is not accurately positioned.	1. Check the milling dimensions (see page 22). 2. If necessary, rework the routed pockets.

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