

KFV

Multi-point locks Key-operated

BS 230X

BS 250X

BS 26XX

T2

TR

BV 1X00-1

BV 1X00-2

Window systems

or systems

Comfort systems

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1 Introduction

Please read these instructions carefully before you begin the assembly work. Follow the instructions in Chapter 2 "Safety", in order to prevent personal injury or functional disorders.

These instructions are an integral part of the multi-point lock and must be accessible to the specialist personnel at all times.

1.1 Producer and Service

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Please contact your retail partner in case of complaints or service requirement.

1.2 Target group of this documentation

This documentation is intended for use by specialists only. All work described in this document is to be performed only by experienced professionals with training and practice in the assembly, as well as the commissioning and maintenance of multi-point locks.

1.3 Intended use

1.3.1 Installation location

- The multi-point lock is suitable for installation in single-sash and double-sash doors in permanent buildings.
- The multi-point lock may only be installed in doors that have been fitted in a technically sound manner.
- The door design must permit use of the multi-point lock.

1.3.2 Locking part and hardware

- Use only KFV frame parts.

1.4 Improper use

- The multi-point lock must not be used for escape doors.
- The multi-point lock is not designed to accommodate changes to its shape or sealing which arise as a result of differences in temperature or changes to the building beyond the adjustment path of the Q adjustment.
- The multi-point lock must not be used in doors for wet rooms or rooms in which the air contains aggressive or corrosive components.

- Foreign objects and/or materials which impede or prevent proper use must not be placed within the opening range, the locking system or the striker plates.
- Do not interfere with and/or make any modifications to the multi-point lock.
- Locking elements must not be misused to hold the door open.
- Movable or adjustable locking elements (e.g. deadbolt, latch) must not be painted over.

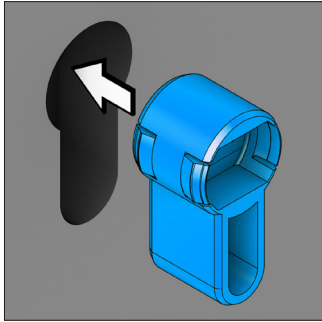
1.5 Installation conditions and requirements

Local building laws and regulations must be observed before and during door installation in addition to the following requirements and conditions:

- Before installing the multi-point lock, check the dimensional accuracy of the door and the door frame. The multi-point lock must not be installed if the door and/or the frame is warped and/or damaged.
- Surface treatment of the door and door frame must take place before the multi-point lock is installed. Subsequent surface treatment can reduce the functional capacity of the multi-point lock.
- Observe the specified positions and sizes for all milling and drilling dimensions within the defined tolerances. Observe the horizontal and vertical adjustment accurately.
- Remove any splinters from routed pockets after milling.
- Do not overtighten the screws or insert them at an angle.
- Once the multi-point lock is installed, do not perform mechanical work on the door (such as drilling or milling).
- Do not drill into or through the main lock under any circumstances.
- Install hardware components and cylinder flush.
- Adhere to airgap (interval between faceplate and frame parts): The multi-point lock functions safely with an airgap between 3.5 mm +/- 1.5 mm. Beyond this, the fabricator must ensure that the airgap is large enough to guarantee the freedom from constraint of the door.
- Use only acid-free neutral-cure sealants to prevent corrosion of components and/or the door.

1.6 Transport

- Block set the door leaf in the frame with door gap restrictors.
- The transit support provided must remain in the main lock during the transport of a pre-assembled door without cylinder lock.



- In the installed and non-installed status of the multi-point lock, ensure that the locking elements are in the release position.
- Multi-point locks are sensitive components and must therefore be handled with care. For example, they must not be thrown, hit hard or bent.
- Do not carry the door by the lever handle or hardware when transporting it.

1.7 Dimensions

All measurements are given in mm.

1.8 Symbols used

The following icons are used in this document:

	General warning symbol
	Useful information or advice
	Do not use mechanical force
	Wear safety goggles
	Wear safety footwear
	Wear safety gloves
	Continue reading the instructions at the corresponding point
	Milling cutter and drill dimensions
	Groove length
	Groove depth from bottom edge of face plate
	Groove width
	Through hole
	Metal profiles
	Timber profiles
	PVC profiles

1.9 Other types of indicators

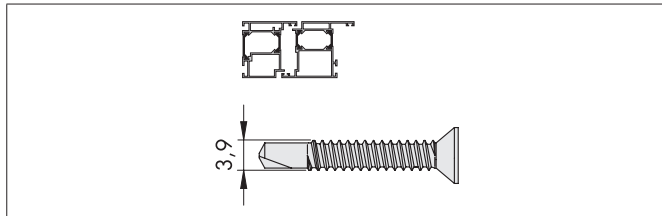
Below is a list of symbols used in these instructions and their meanings:

- Items of text following this marker are found in lists.
 - Items of text following this marker are found in subordinate lists.
- Items of text with this marking in front of them are instructions that must be followed in the specified order.

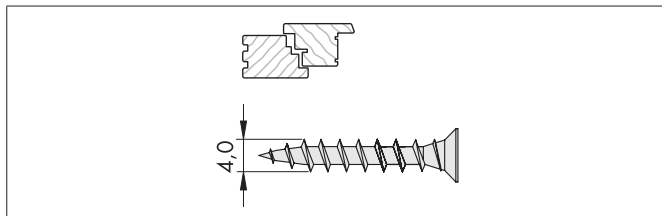
Cross reference

- „“ A separate cross reference is enclosed by quotation marks.
- () A cross reference in the flow text is enclosed by brackets.

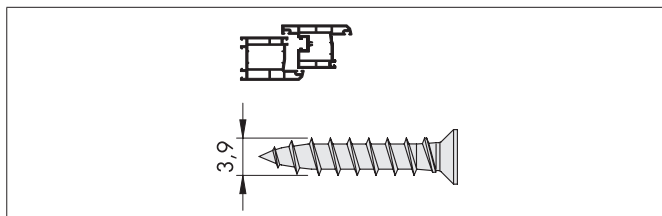
1.10 Screw recommendations



Aluminium:
SKG** $\varnothing \geq 4.8$ mm
Aluminium profile min. 2 mm wall thickness



Timber:
SKG** $\varnothing 4.0$ mm x 40 mm
SKG*** $\varnothing 4.5$ mm x 45 mm
SKH certified



PVC:
SKG** $\varnothing \geq 4.2$ mm
Steel reinforcement min. 1.5 mm wall thickness

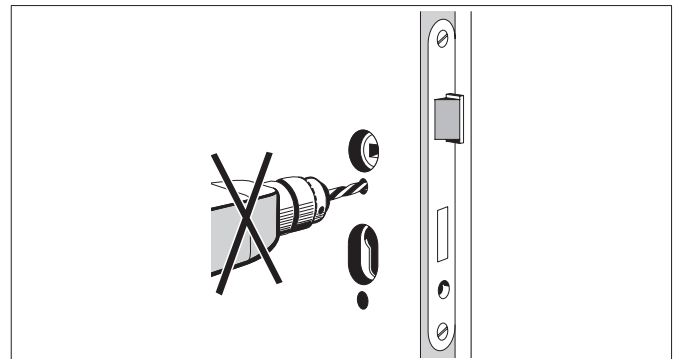
1.11 Applicable documents

For the installation of the multi-point lock, it is essential to observe all assembly and operating instructions that are enclosed with other (optional) components. The instructions of the door manufacturer and for other accessories from other manufacturers are also applicable.

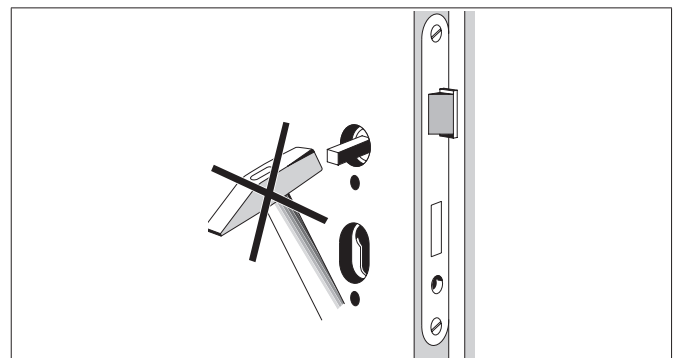
1.12 Appropriate disposal

- The multi-point lock and the optional accessories should not be disposed of with household waste. Comply with the current local and national regulations.
- The packaging consists of raw materials that can be recycled and can be taken to the local waste paper disposal site.

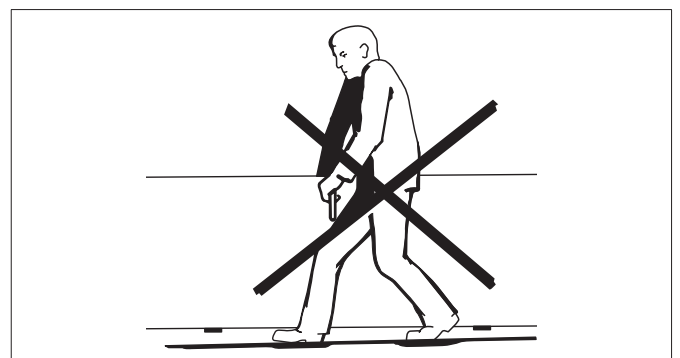
1.13 Causes of damage



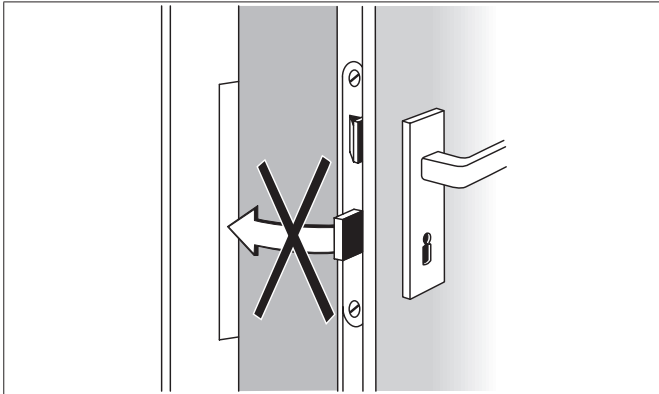
Do not drill through the door leaf in the area of the gear box when the lock or the multi-point lock is installed.



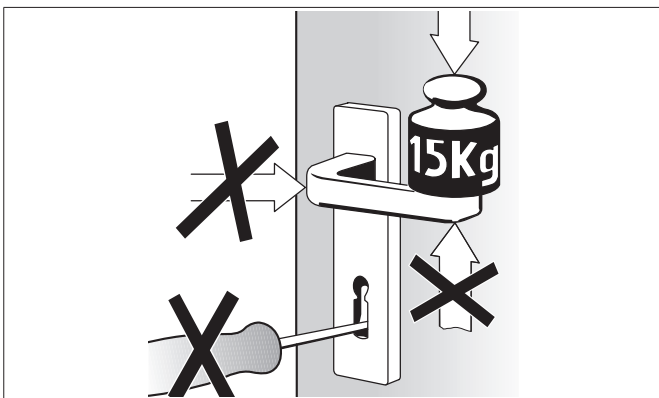
The spindle must not be hit through the lock nut with force.



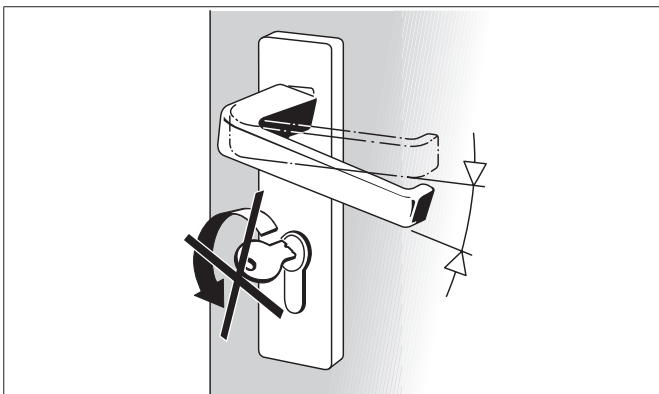
The door leaf must not be carried using the lever handle as a grip.



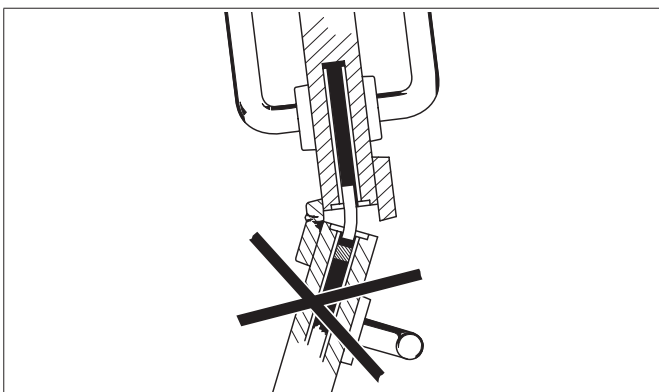
None of the locking elements may be excluded when the door is open.



Force must be exerted on the lever handle only in the normal direction of rotation. A maximum force of 150 N may be applied to the lever handle in the direction of actuation. The lock or multi-point lock must be locked only with the associated key (and not with foreign objects).



The lever handle and key must not be operated at the same time.



Double-leaf doors must not be forced open using the inactive sash.

2 Safety

Before starting the assembly work, read the following safety instructions carefully. They are designed to keep you safe and prevent hazards, injuries and material damage. Observe all warning notes.



Information

This symbol indicates special features and designates facts that require increased attention.

2.1 Personal protective equipment

You will need the following protective equipment when assembling multi-point service locks:

- Safety shoes
- Protective gloves
- Protective goggles

2.2 Heavy components

When working with multi-point locks, the door leaf will need to be lifted off in some cases.

This presents a risk of foot injuries.



Wear safety footwear

2.3 Sharp edges

Cropping metal components creates sharp edges. This presents a risk of cutting injuries.



Wear safety gloves

2.4 Swarf flying around rapidly

During milling work, there will be swarf flying around rapidly.

This presents a risk of eye injuries.



Wear safety goggles

3 Variants and components

The multi-point locks are equipped with two auxiliary boxes [1] or four auxiliary boxes [2].

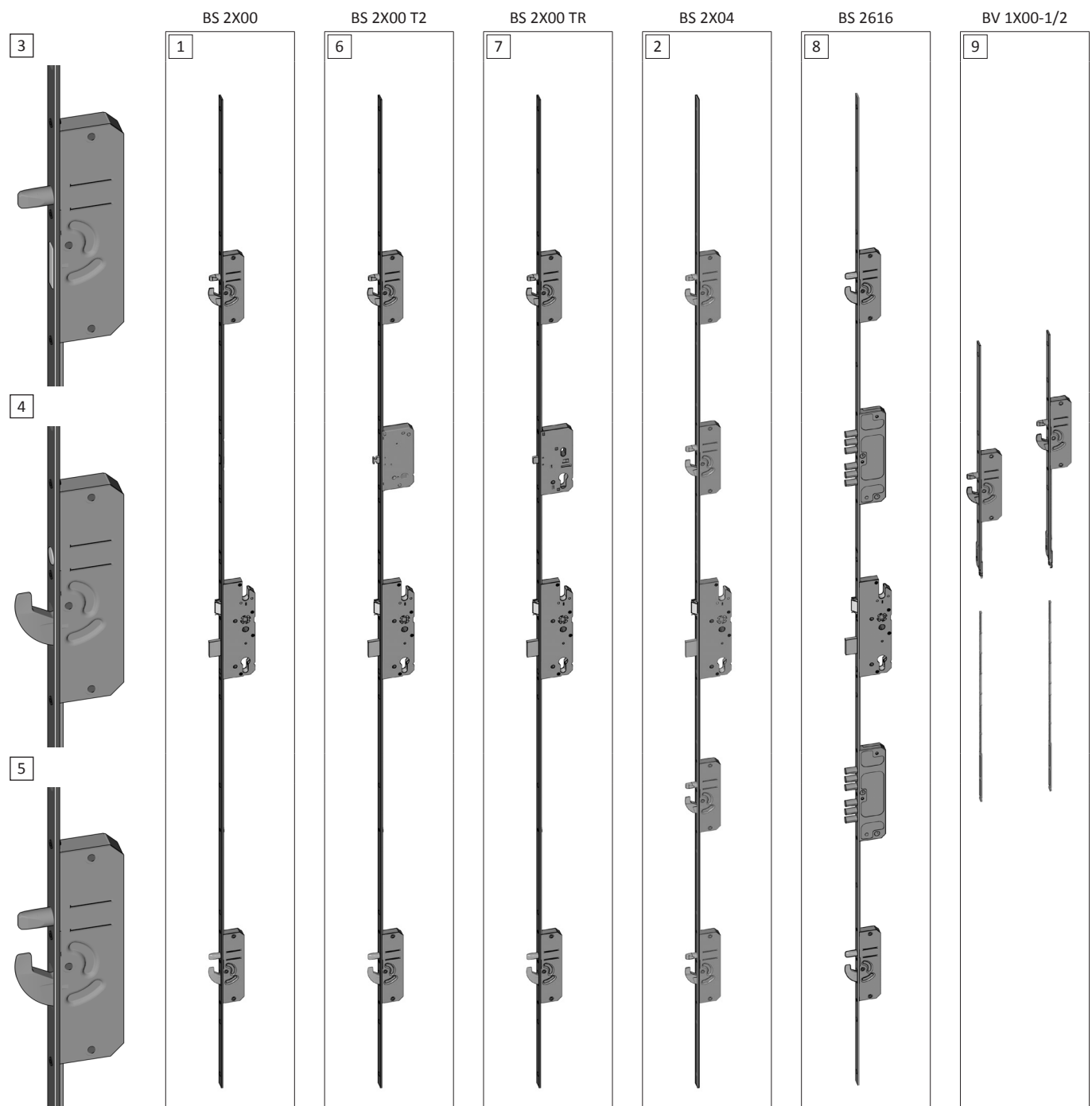
Three versions of auxiliary boxes are available:

- BS 2300 with round bolt [3]
- BS 2500 with hook bolt [4]
- BS 2600 with round bolt/hook bolt combination [5].

The multi-point locks with two auxiliary boxes can be upgraded with the T2 safety lock [6] or the additional dead-bolt lock TR [7].

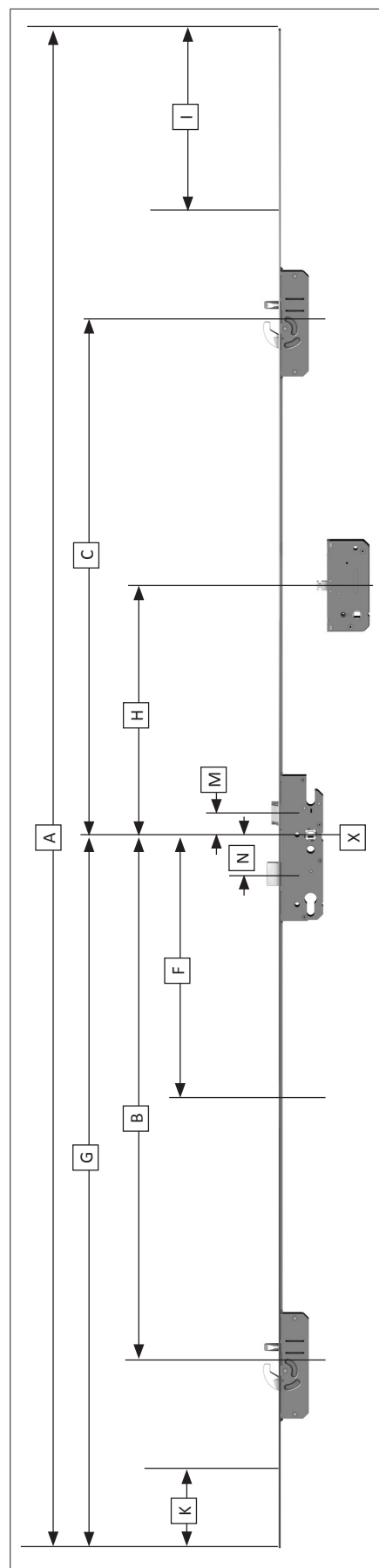
The multi-point lock BS 2616 [8] is equipped with a combination of two auxiliary boxes with round bolt/hook bolt combinations and two auxiliary boxes with six round tacks.

To extend the multi-point locks, an extension piece [9] with auxiliary box 23/25/2600 in two versions can be mounted.



3.1 Size variants

3.1.1 PZ dimensions 72 mm, 92 mm, 94 mm



Size variants	A	B	C	F	G	H	I	K	Suitable for sash rebate height
B296*	2170	760	355	385	1020		665	130	1505 - 1754
B298	2170	760	605	385	1020	355	415	130	1755 - 1880
B001	2170	760	730	385	1020	355	290	130	1881 - 2170
B003	2400	760	980	385	1020	355	270	130	2171 - 2400

B039*	1500	760	355	385	952				1505 - 1754
B041	1700	760	605	385	952	355			1755 - 1880
B166	1855	760	730	385	952	355			1881 - 2170
B253	2170	760	980	385	952	355			2171 - 2400

K038	1629	760	605	385	892	355			1755 - 1880
K002	1754	760	730	385	892	355			1881 - 2170
K054	2004	760	980	385	892	355			2171 - 2400

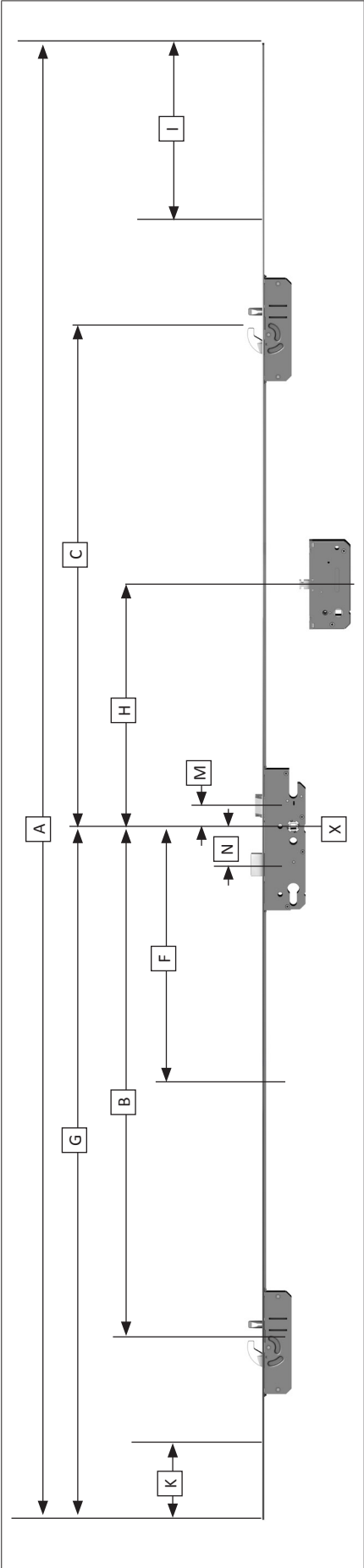
K296*	1442	760	355		892				1505 - 1754
K298	1692	760	605		892	355			1755 - 1880
K001	1817	760	730		892	355			1881 - 2170
K003	2067	760	980		892	355			2171 - 2400

K006	1722	822.5	605	385	970	355			1755 - 1880
K007	1847	822.5	730	385	970	355			1881 - 2170
K008	2097	822.5	980	385	970	355			2171 - 2400

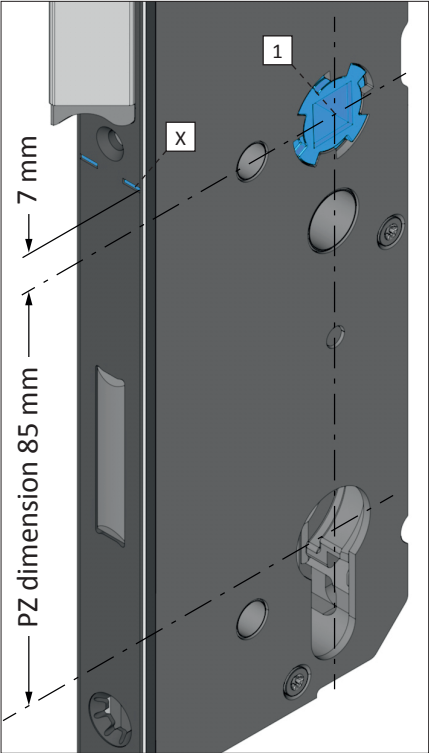
B325*	2170	760	355	385	1050		635	160	1535 - 1785
B327	2170	760	605	385	1050	355	385	160	1786 - 1910
B002	2170	760	730	385	1050	355	260	160	1911 - 2170
B004	2400	760	980	385	1050	355	240	160	2171 - 2400

*	= Not available with hole group "T0"
Dimensions I + K	= Can be shortened
X	= System marking All dimensions from [X] to the centre of the auxiliary box
M	= 29.0
N	= 57.5

3.1.2 Distance 85 mm



Size variants	A	B	C	F	G	H	I	K	Suitable for sash rebate height
K010	2400	727	721	374	1050	244	500	190	1900 - 2400



*	Not available with hole group "T0"
Dimensions I + K	Can be shortened
X	All dimensions from the system marking [X] to the centre of the auxiliary box.
M	36.0
N	50.5

All dimensions given refer to the system marking [X].

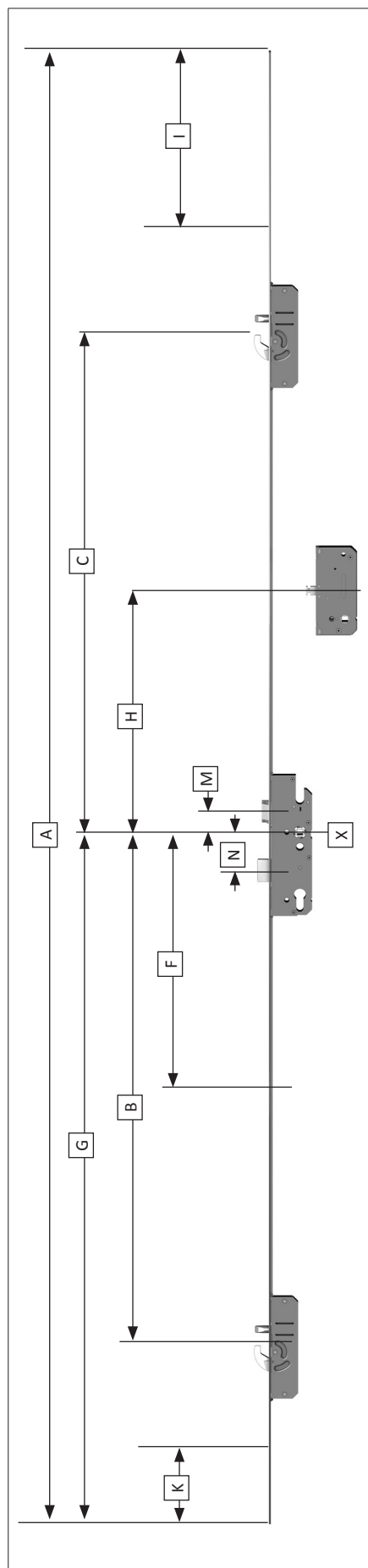
The system marking [X] is at the same height as the handle spindle [1] only with the PZ dimensions 72, 92 and 94 mm..

The handle nut moves downwards with the PZ dimensions 85 and 88 mm.

PZ dimension 85 mm = -7 mm

PZ dimension 88 mm = -4 mm

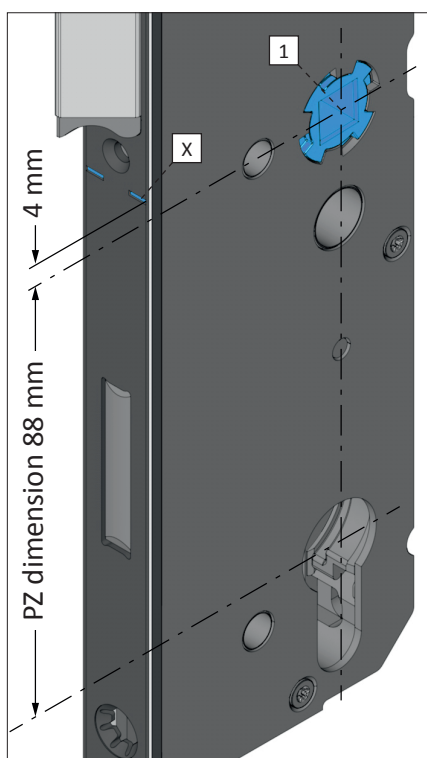
3.1.3 Distance 88 mm



Size variants	A	B	C	F	G	H	I	K	Suitable for sash rebate height
B296*	2170	756	359	381	1016		665	130	1505 - 1754
B298	2170	756	609	381	1016	359	415	130	1755 - 1880
B001	2170	756	734	381	1016	359	290	130	1881 - 2170
B003	2400	756	984	381	1016	359	270	130	2171 - 2400

B039*	1500	756	359	381	948				1505 - 1754
B041	1700	756	609	381	948	359			1755 - 1880
B166	1855	756	734	381	948	359			1881 - 2170
B253	2170	756	984	381	948	359			2171 - 2400

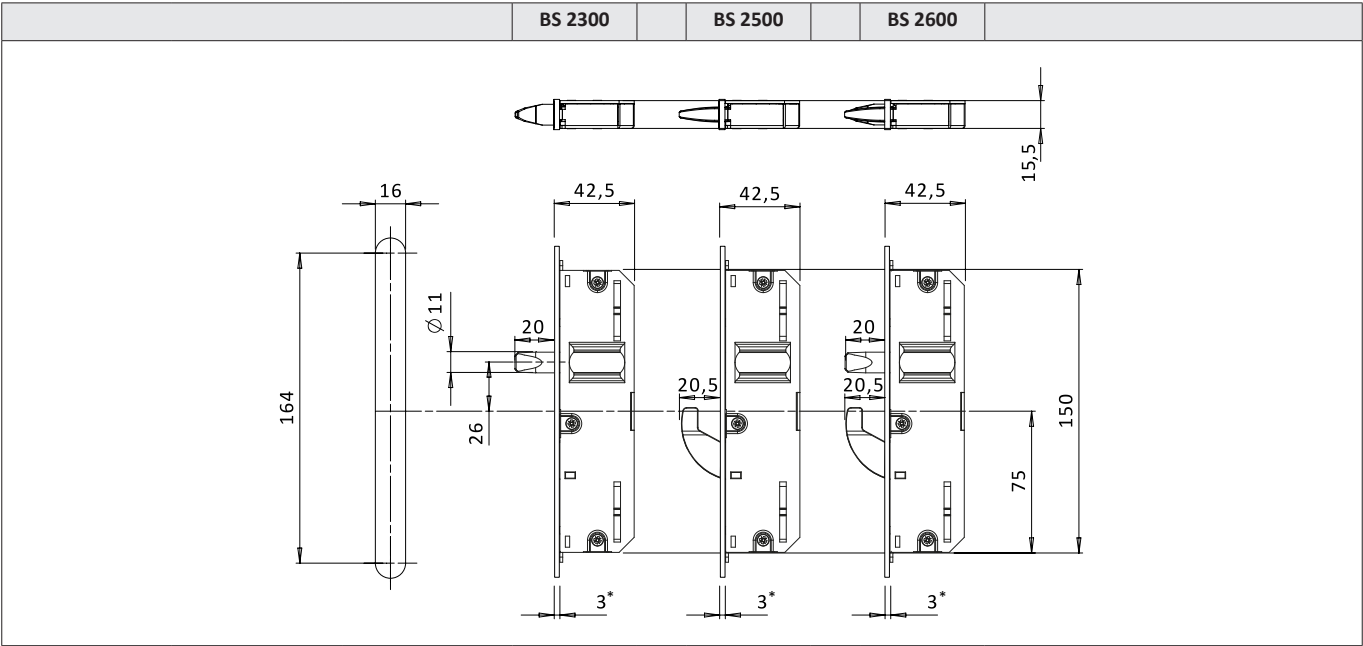
B325*	2170	756	359	381	1046		635	160	1535 - 1785
B327	2170	756	609	381	1046	359	385	160	1786 - 1910
B002	2170	756	734	381	1046	359	260	160	1911 - 2170
B004	2400	756	984	381	1046	359	240	160	2171 - 2400



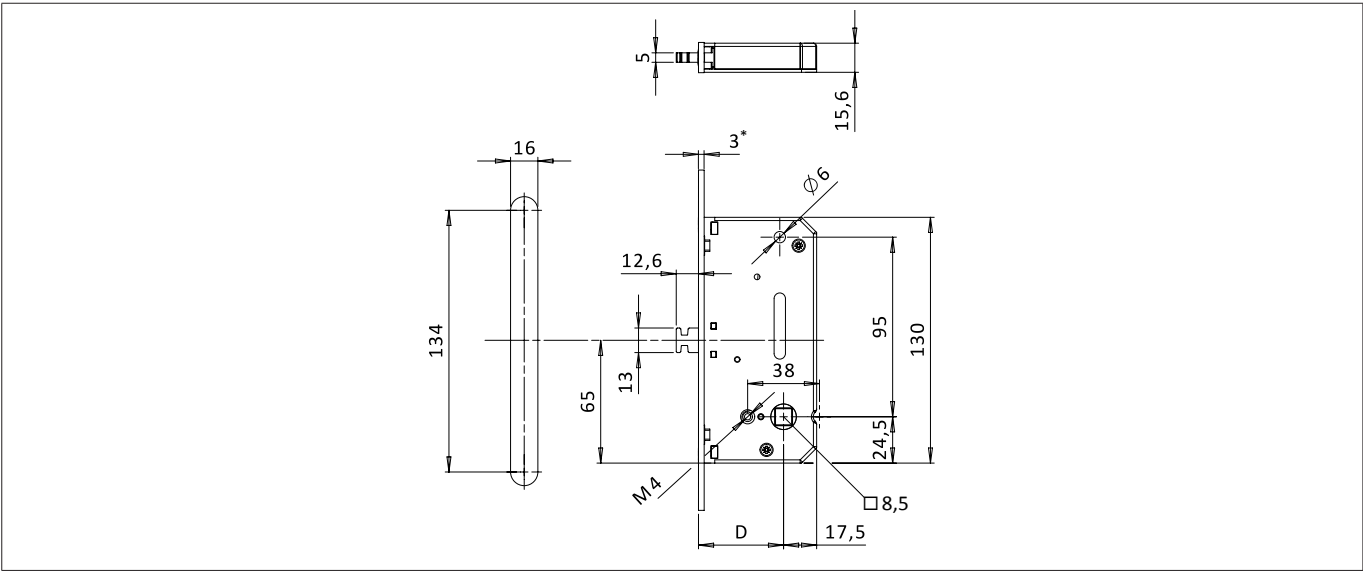
*	Not available with hole group "TO"
Dimensions I + K	Can be shortened
X	All dimensions from the system marking [X] to the centre of the auxiliary box.
M	33.0
N	53.5

!	All dimensions given refer to the system marking [X]. The system marking [X] is at the same height as the handle spindle [1] only with the PZ dimensions 72, 92 and 94 mm. The handle nut moves downwards with the PZ dimensions 85 and 88 mm. PZ dimension 85 mm = -7 mm PZ dimension 88 mm = -4 mm
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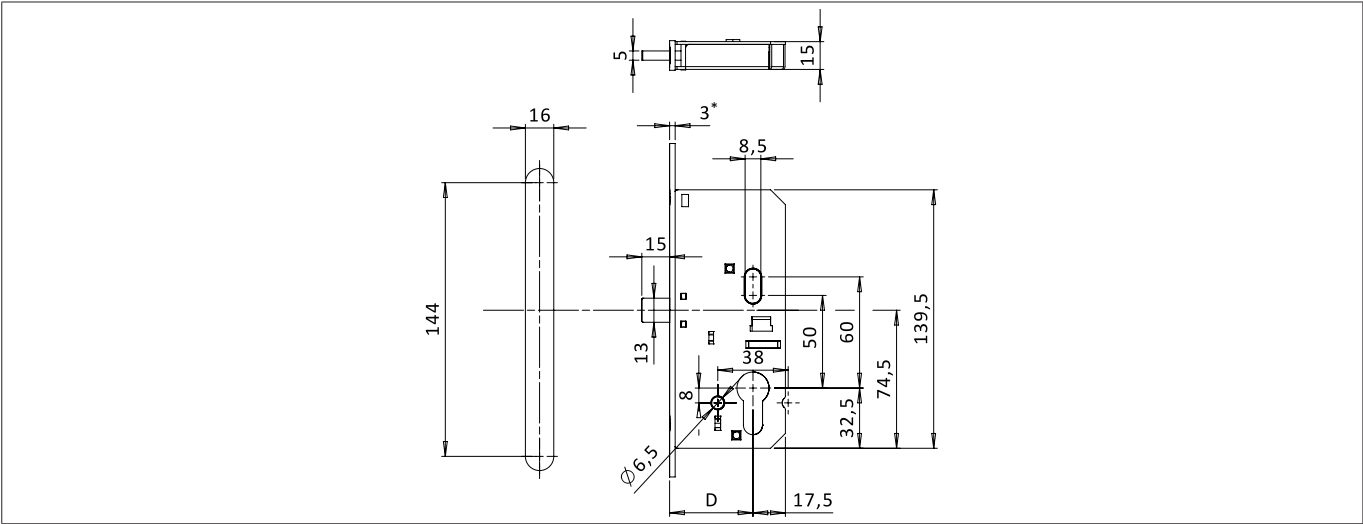
3.1.5 Auxiliary box



3.1.6 T2 Safety lock

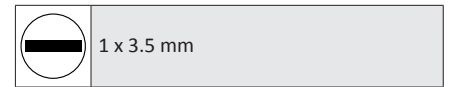
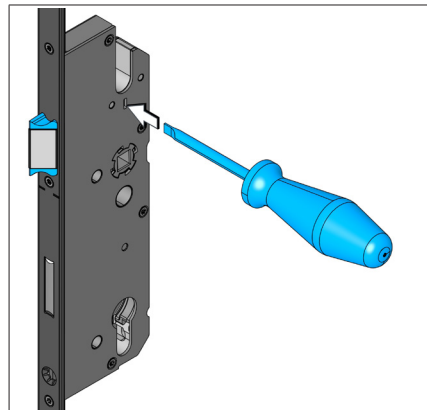
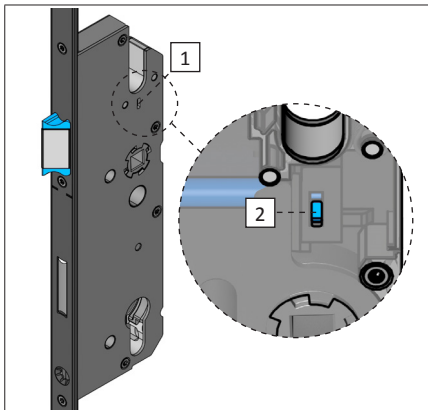


3.1.7 Additional deadbolt lock TR

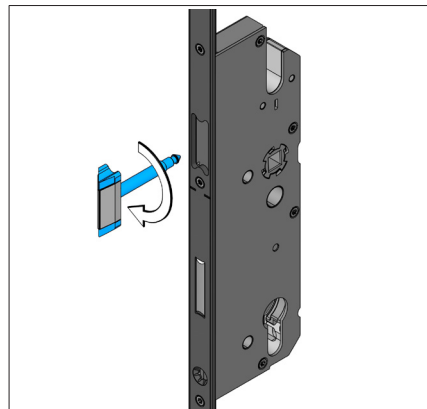
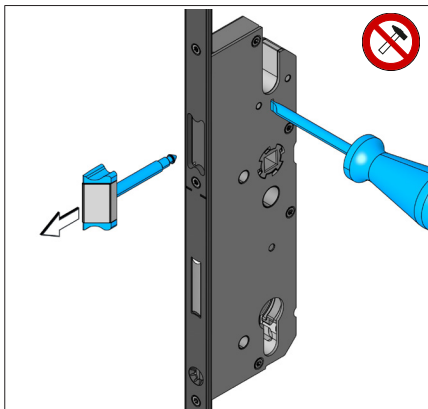


4 Installation

4.1 Change DIN orientation of the soft lock latch



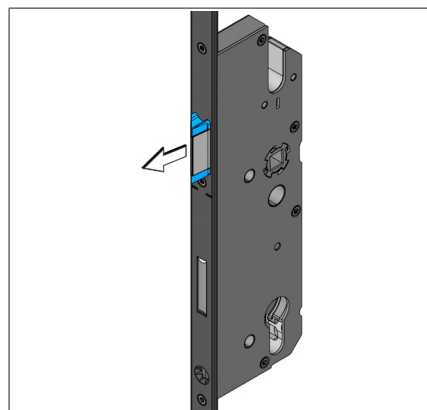
There is a slot [1] on the gear box side. The locking spring [2] of the latch shank can be opened through this slot using a slotted screwdriver.



► Carefully press on the locking spring of the latch shank through the opening using the slotted screwdriver.

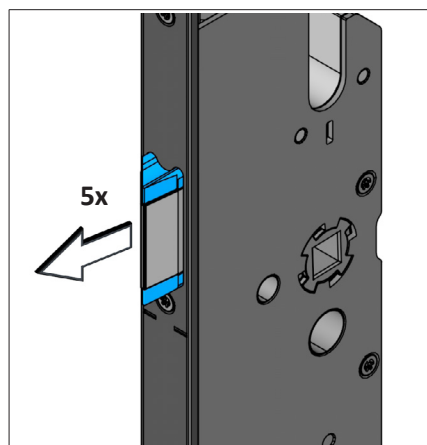
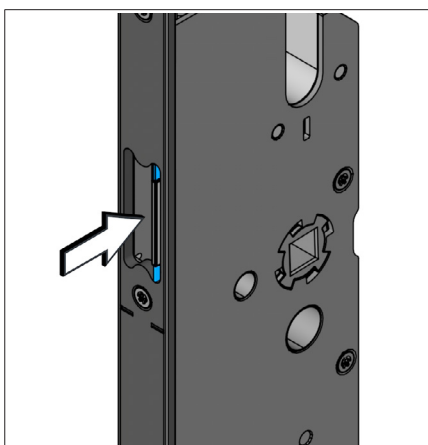
The latch shank will be released.

► Remove the latch and rotate it by 180°.



► Carefully press the latch into the gear box until the latch shank snaps into the locking spring and then release the latch.

The latch must be able to extend independently and be held securely by the locking spring.

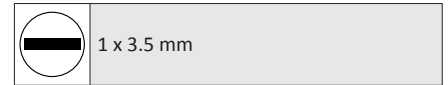
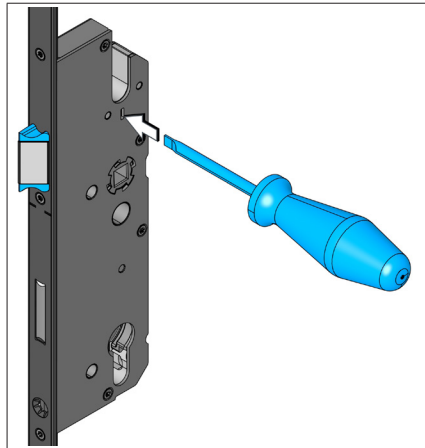
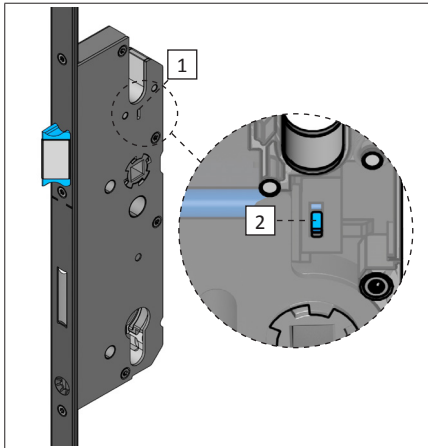


► Check that the latch is properly seated and is smooth running. Press the latch several times (approx. 5x) into the gear box and release the latch again.

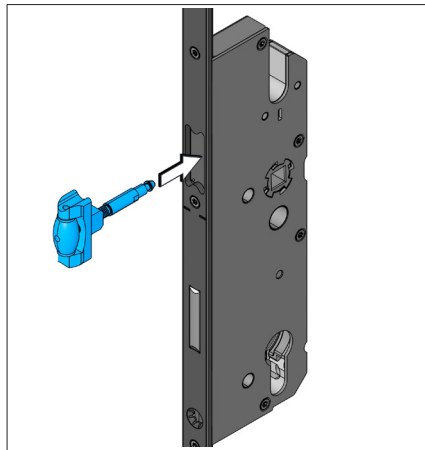
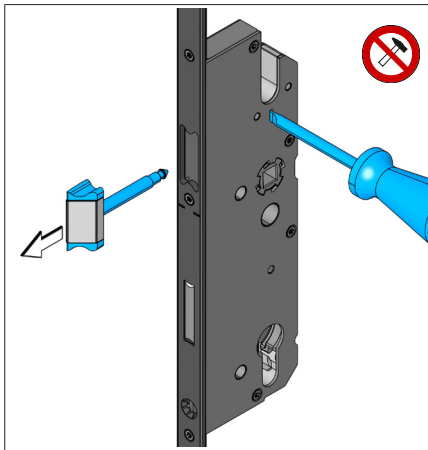
The latch must move with ease and extend completely.

4.2 Swing door roller latch

4.2.1 Replace soft lock latch with swing door roller latch



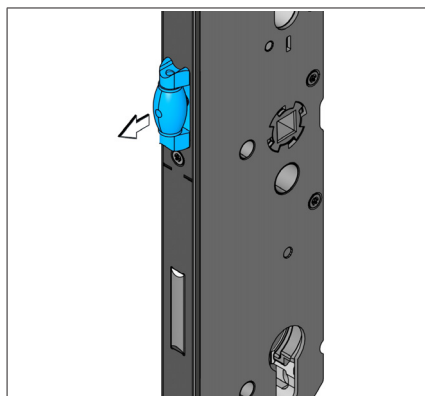
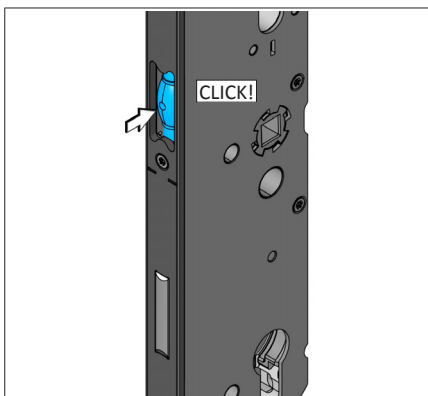
There is a slot [1] on the gear box side. The locking spring [2] of the latch shank can be opened through this slot using a slotted screwdriver.



► Carefully press on the locking spring of the latch shank through the opening using the slotted screwdriver.

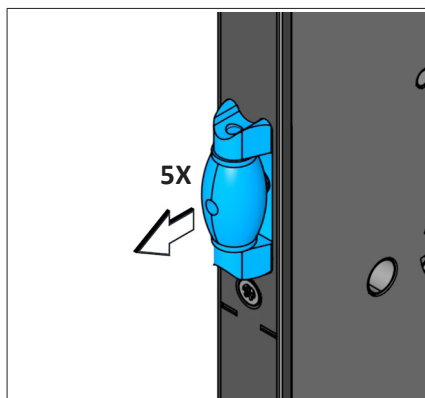
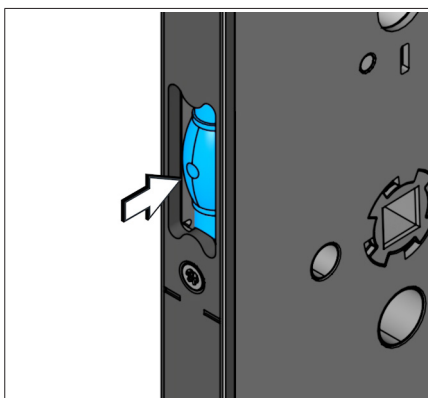
The latch shank will be released.

► Remove the latch and replace it with the swing door roller latch.



► Carefully press the swing door roller latch into the gear box until the latch shank snaps into the locking spring and then release the latch.

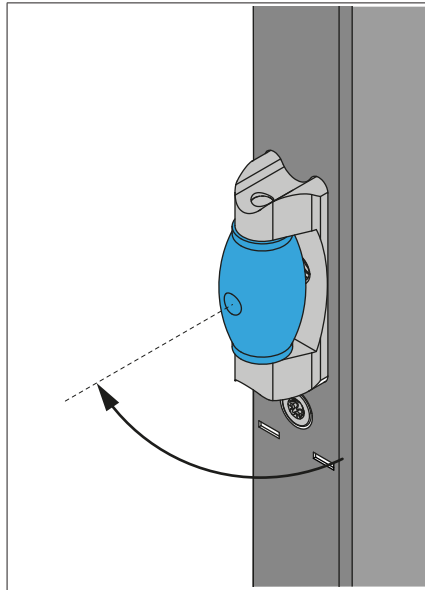
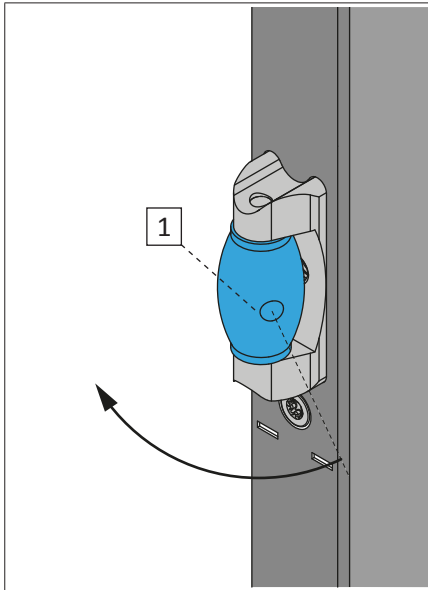
The swing door roller latch must be able to extend independently and be held securely by the locking spring.



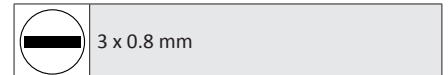
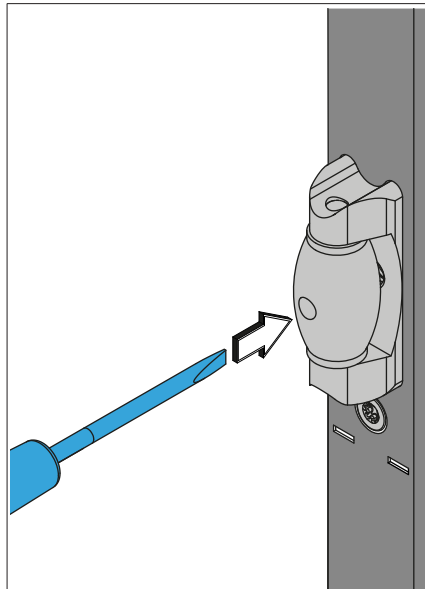
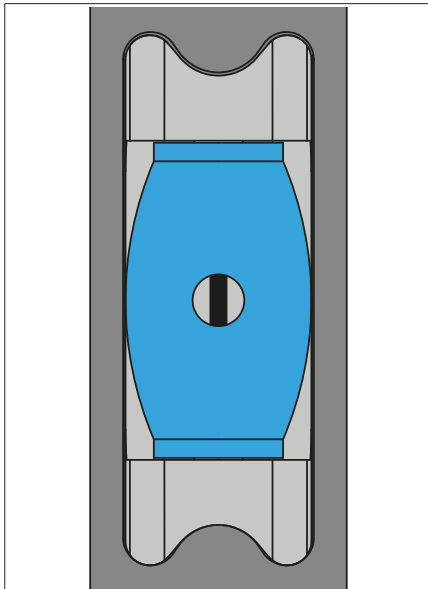
► Check that the swing door roller latch is correctly seated and moves with ease by pressing the latch several times (approx. 5x) into the gear box and releasing the latch again.

The swing door roller latch must move with ease and extend completely.

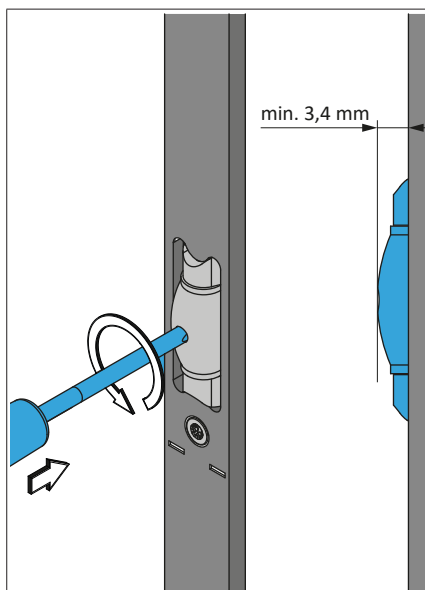
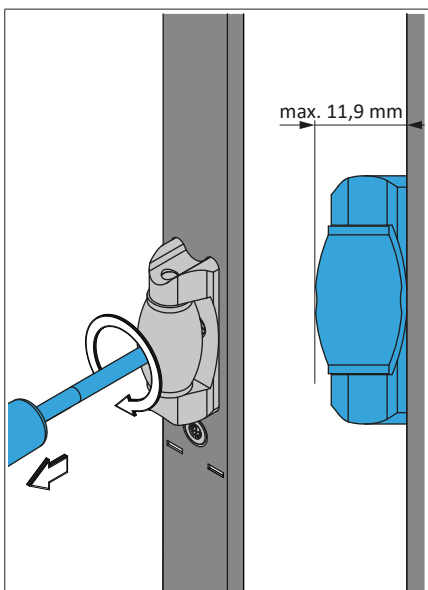
4.2.2 Adjustment of swing door roller latch



- Align the centre part in such a way that the hole [1] is facing forwards.



- Insert a 3 x 0.8 mm slot screwdriver into the latch shaft through the hole in the centre part.



! The swing door roller latch may only be unscrewed to the defined maximum value.

! The position of the swing door roller latch is based on the airgap of the door, see chapter 4.13 „Adjustment of airgap“.

- Turn the screwdriver anticlockwise.

The swing door roller latch extends.

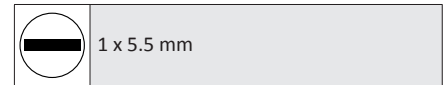
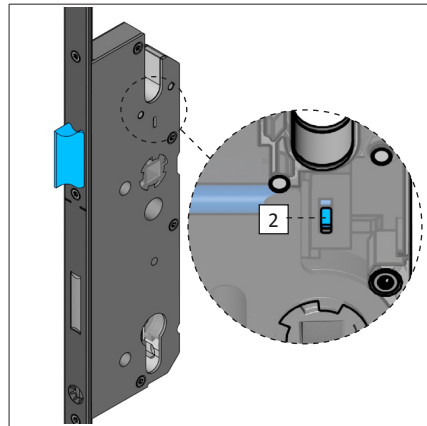
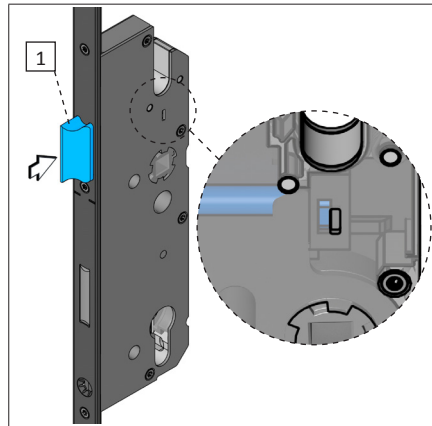
- Turn the screwdriver clockwise.

The swing door roller latch retracts.

4.3 Change DIN orientation of the fire protection latch

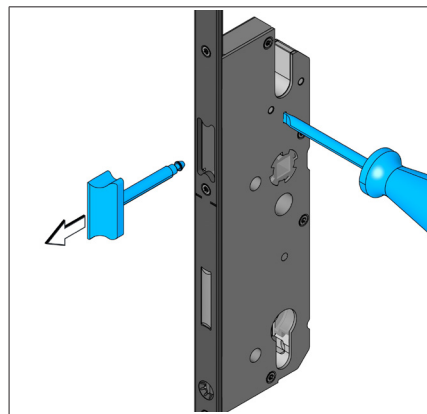
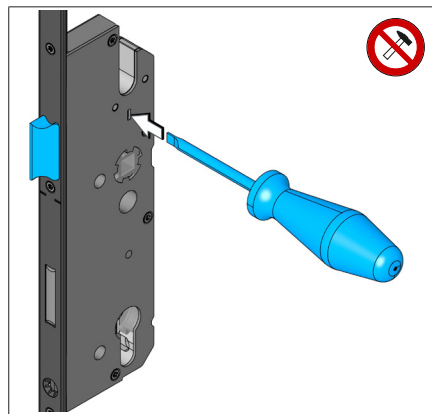


The fire protection latch is an integral components of a fire protection multi-point lock. With the exemption of changing the DIN orientation, all other modifications of fire protection multi-point locks are inadmissible.



- Press the latch [1] approx. 2 mm inwards.

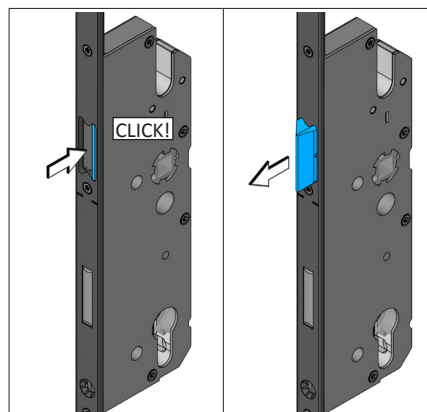
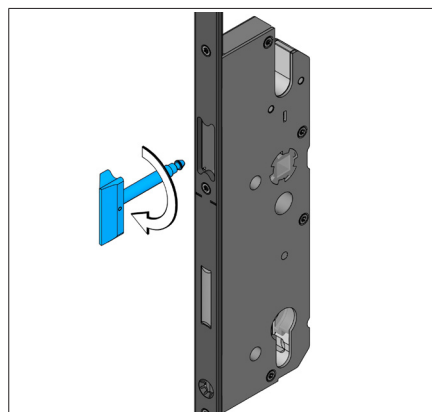
The locking spring [2] of the latch shank will be visible in the opening of the gear box.



- Press on the locking spring of the latch shank through the opening using a slotted screwdriver.

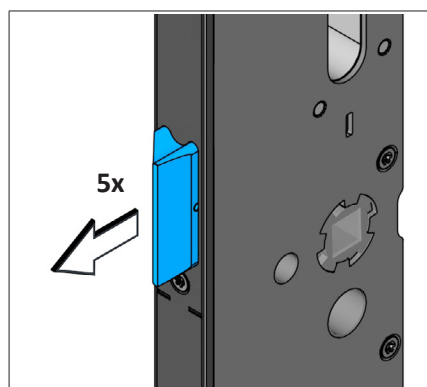
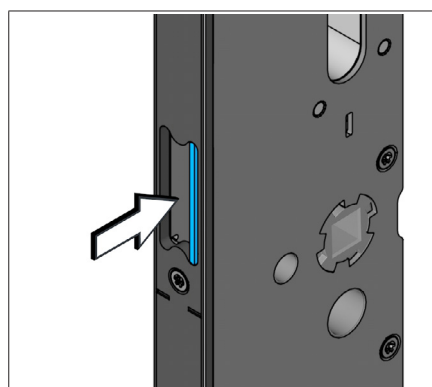
The latch shank will be released.

- Remove the latch.



- Rotate the latch by 180°.
- Carefully press the latch into the gear box until the latch shank snaps into the locking spring and then release the latch.

The latch must be able to extend independently and be held securely by the locking spring.



- Check that the latch is correctly seated and moves with ease by pressing the latch several times (approx. 5x) into the gear box and releasing the latch again.

The latch must move with ease and extend completely.

4.4 Milling the door leaf

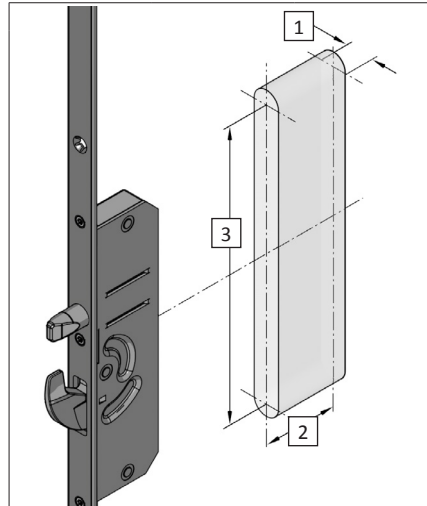
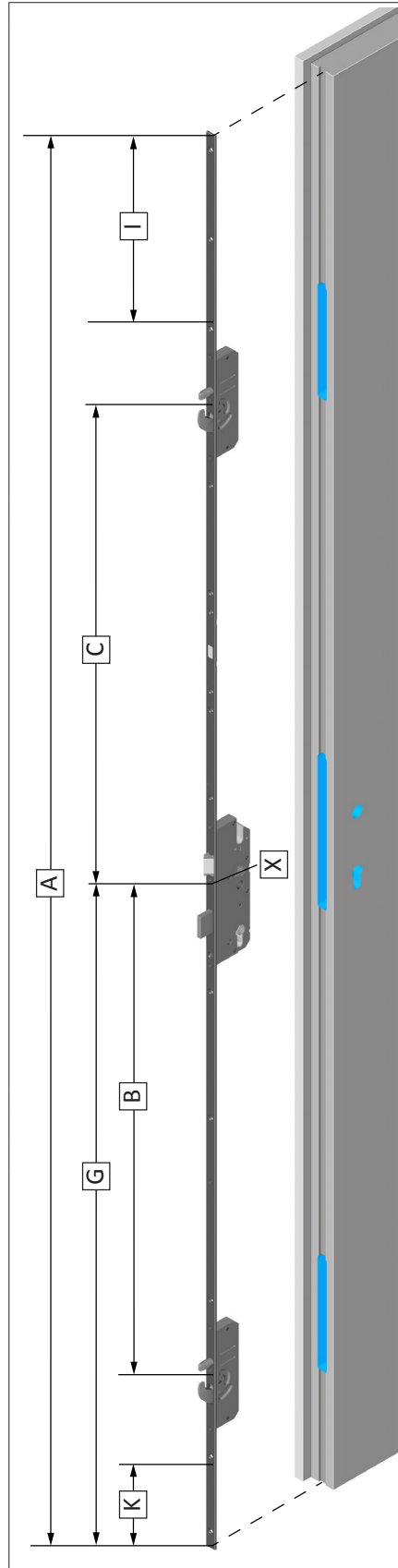
4.4.1 BS 23/25/2600



Determination of position, see chapter 3.1 „Size variants“ from page 10.

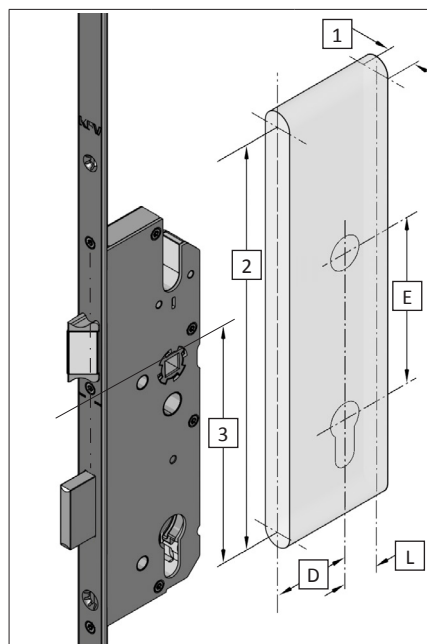


Wear safety goggles



Auxiliary box

- [1] 16.0 mm
- [2] 42.5 mm + 1 mm
- [3] 164.0 mm

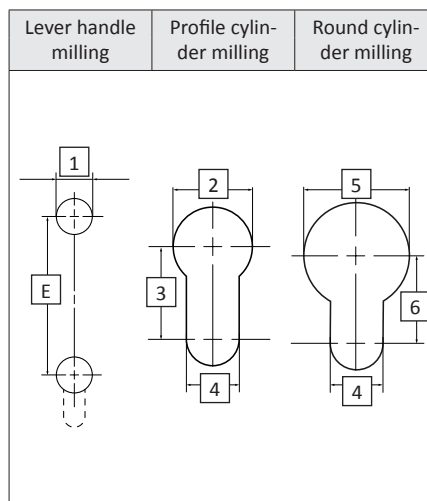


Main lock

- [1] 16.0 mm
- [2] 234.0 mm
- [3] 137.0 mm (system marking)
- [L] Rear backset dimensions + 1 mm
- [D] Backset
- [E] PZ dimension



All dimensions of the main lock, see chapter 3.1.4 „Main lock types, key-operated“ from page 13.

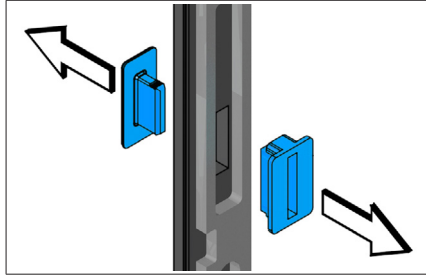
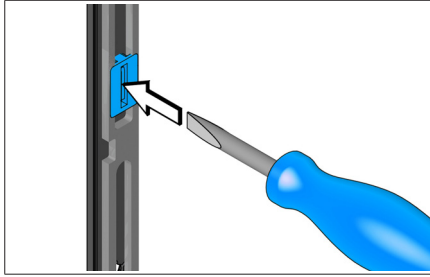


Lever handle and cylinder

- [1] Ø 18.0 mm
- [2] Ø 18.0 mm
- [3] 21.0 mm
- [4] 12.0 mm
- [5] Ø 24.0 mm
- [6] 20.0 mm
- [E] PZ dimension

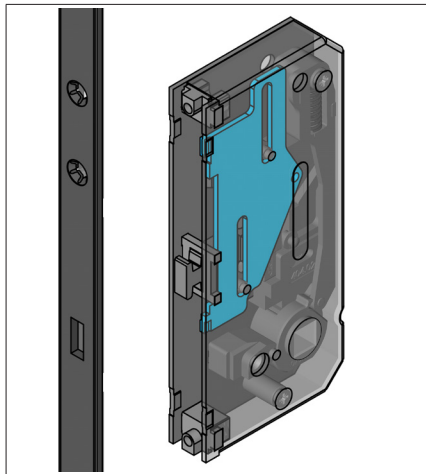
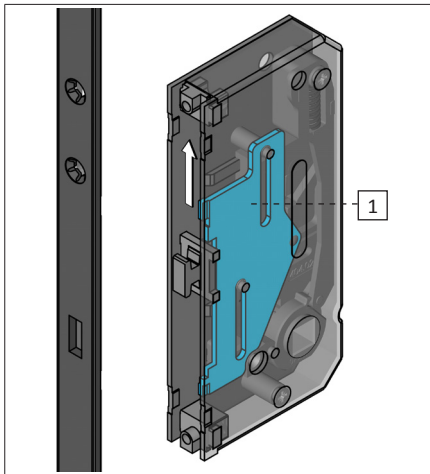
4.5 BS 23/25/2600 safety lock T2

4.5.1 Installing the T2 safety lock



Remove PVC cover

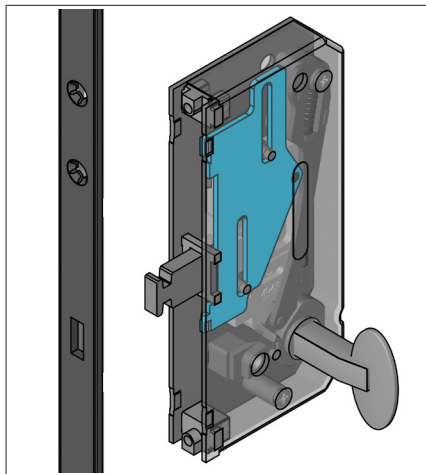
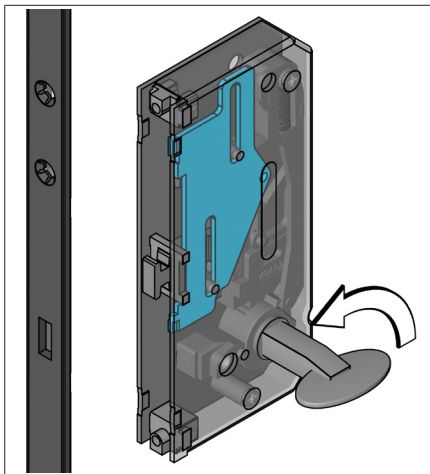
- Using a flat head screwdriver, separate the two-part cover and remove.



Adjust installation position on the T2 safety lock

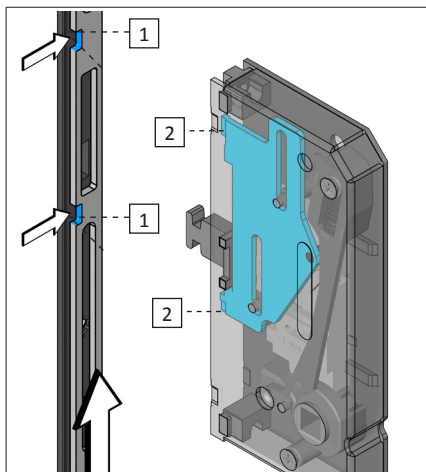
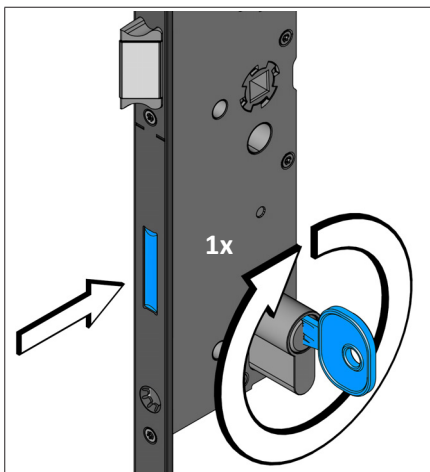
The slider [1] can move freely when released.

- Move the slider completely to the top.



- Position the safety lock in the locking position.

This will keep the slider in its position.

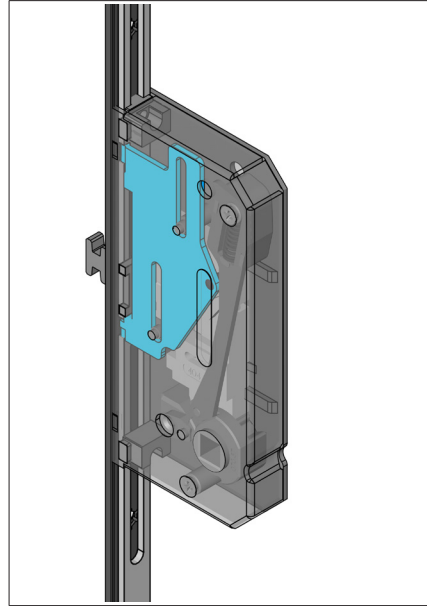
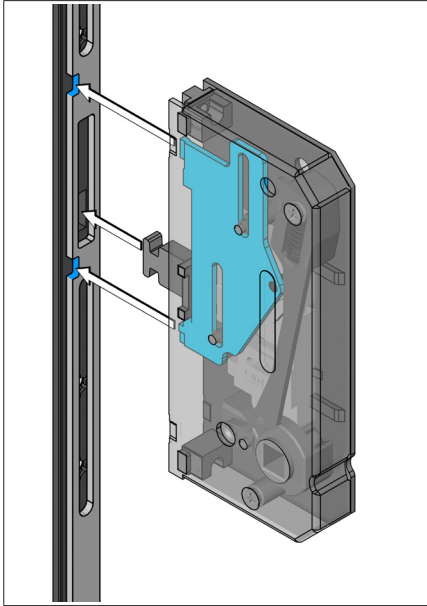


Adjust installation position on the main lock

- Release the main lock.

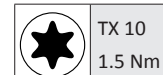
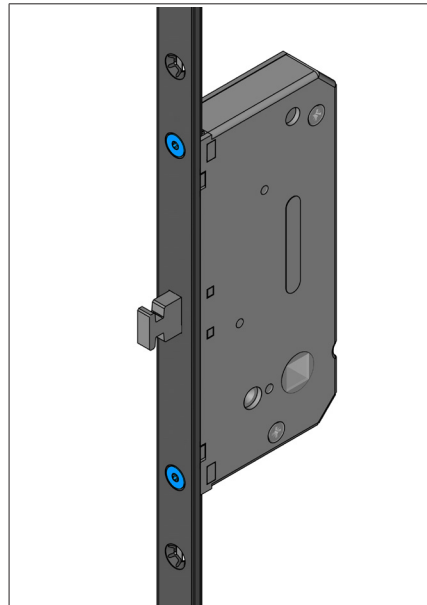
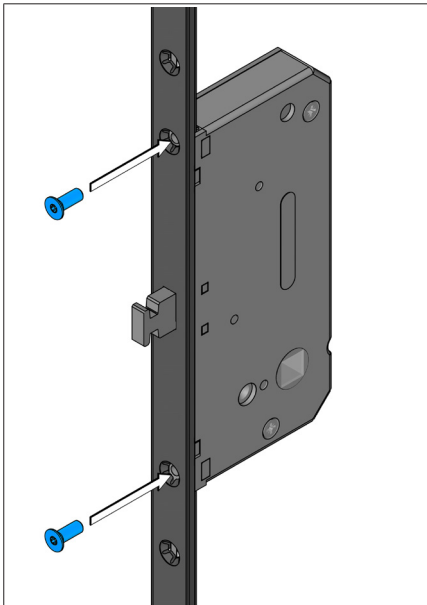
This will make the drive rod travel to the top. This is the installation position for the safety lock.

The two striker packers [2] must engage on the slider in the recesses of the drive rod [1].



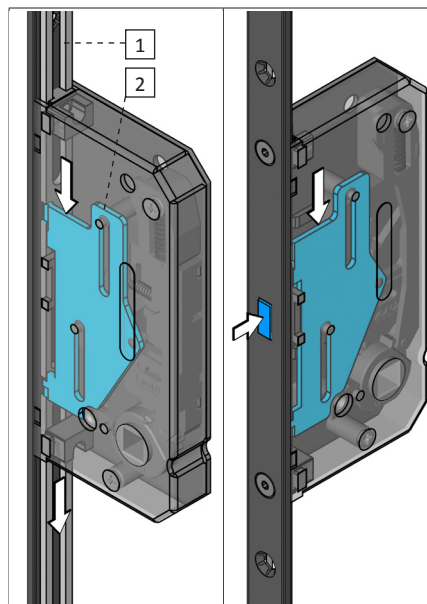
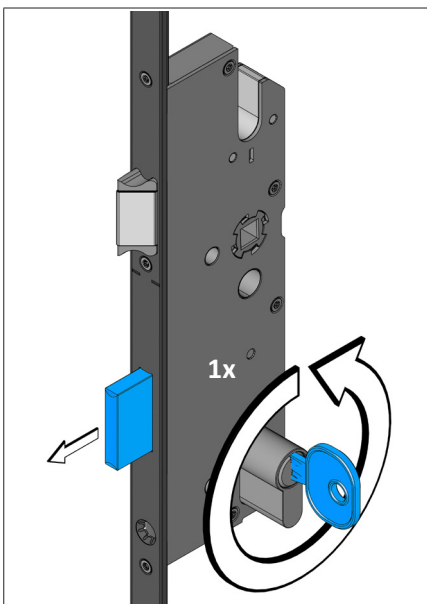
Position the T2 safety lock on the faceplate

- Guide the deadbolt through the square recess in the face plate and couple the striker packers of the slider with the drive rod in the recesses.



TX 10
1.5 Nm

- Fix the T2 safety lock to the face plate using the enclosed screws.



Releasing the T2 safety lock via the main lock

- Lock the main lock with a single turn.

The drive rod [1] will move right to the bottom. The slider [2] will be picked up by the drive rod and transported downwards thereby releasing the T2 safety lock.

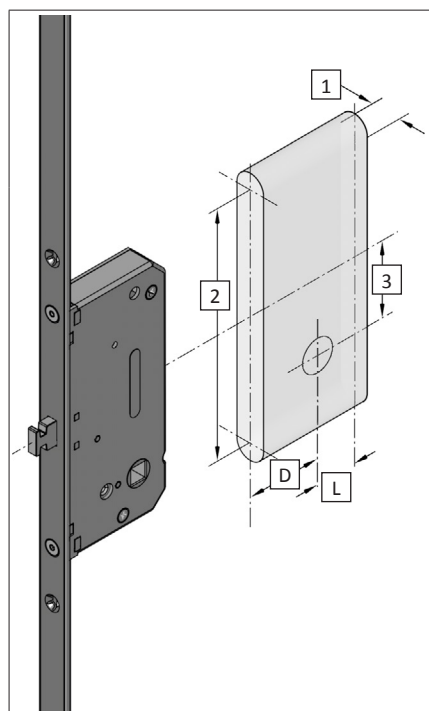
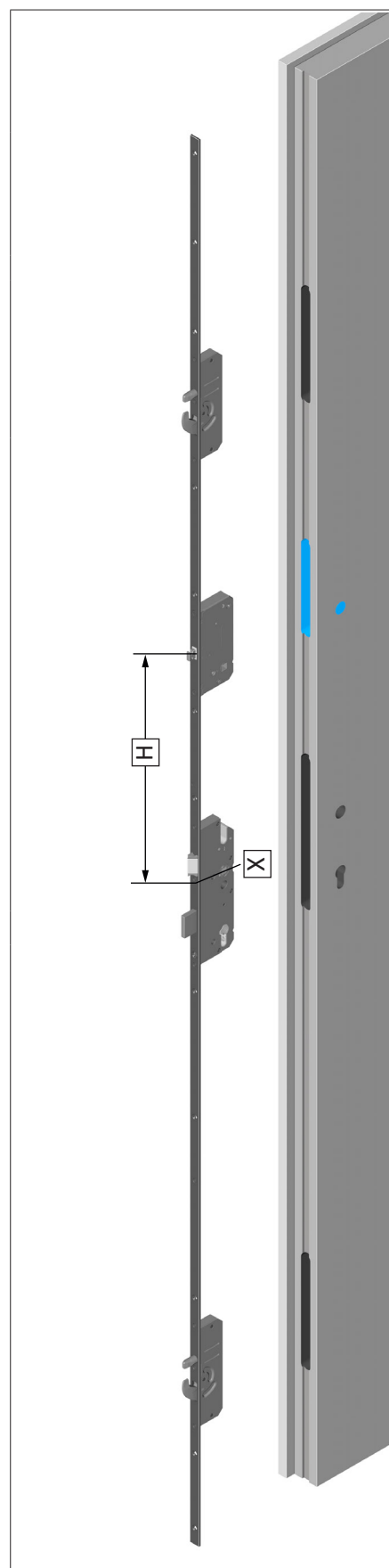
4.5.2 Milling the routed pocket for the T2 safety lock



see chapter 3.1 „Size variants“ from page 10.

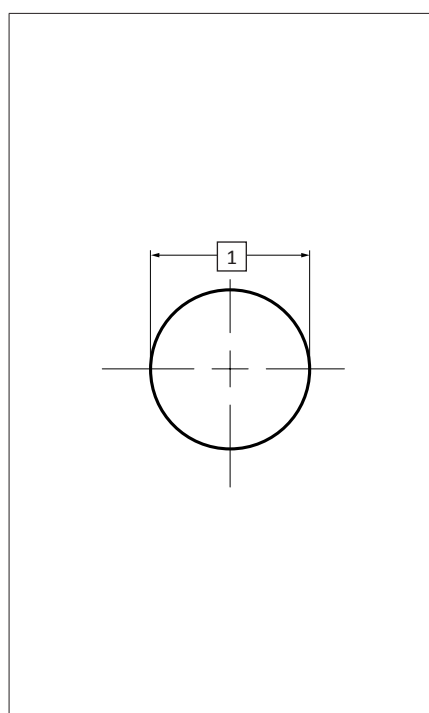


Wear safety goggles



T2 Safety lock

- [1] 16.0 mm
- [2] 134.0 mm
- [3] 40.5 mm
- [L] Rear backset dimensions
+ 1 mm
- [D] Backset

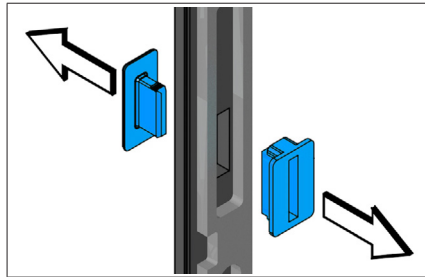
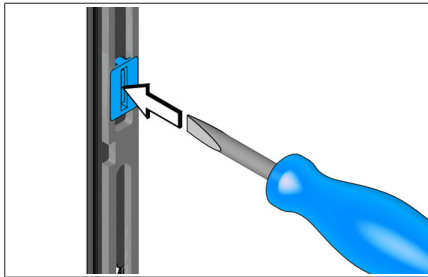


Olive

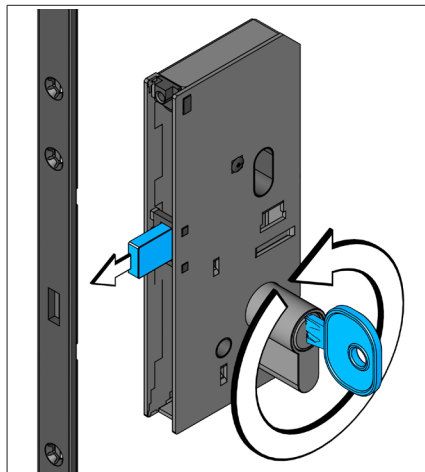
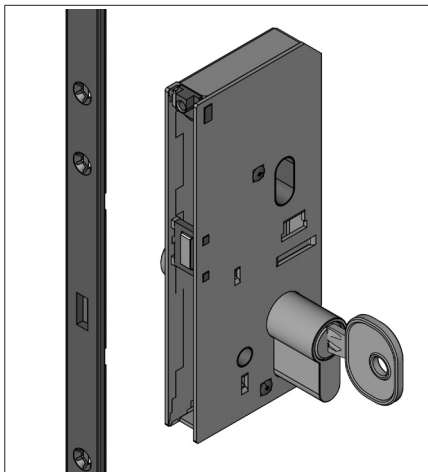
- [1] Ø 18 mm

4.6 BS 23/25/2600 additional deadlock bolt TR

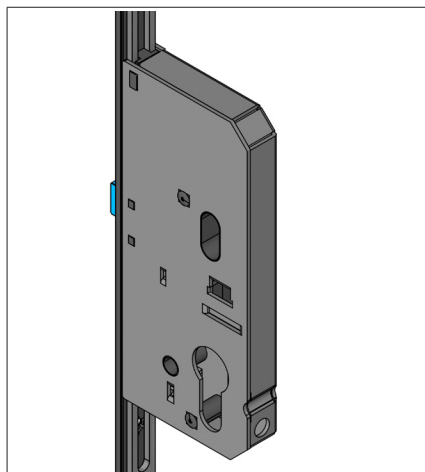
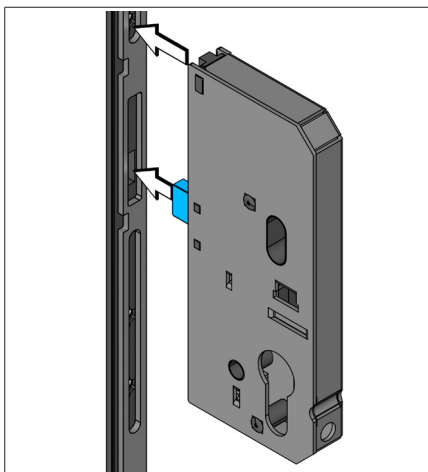
4.6.1 Installing the additional deadbolt lock



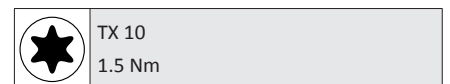
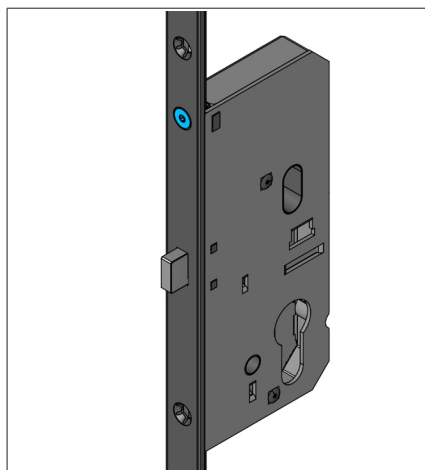
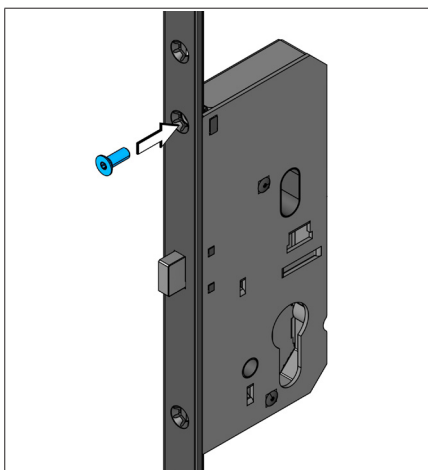
- Using a slotted screwdriver, separate the two-part PVC cover and remove.



- Position the additional deadbolt lock in the locking position.



- Position the additional deadbolt lock on the faceplate and insert the deadbolt through the square opening in the faceplate.



- Fix the additional deadbolt lock TR to the faceplate using the enclosed screw.

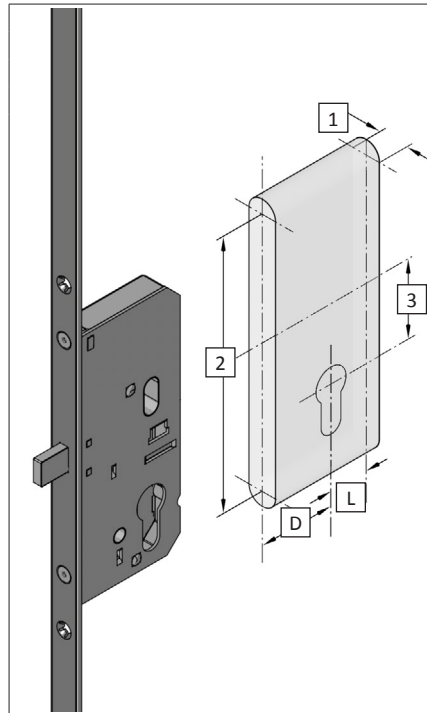
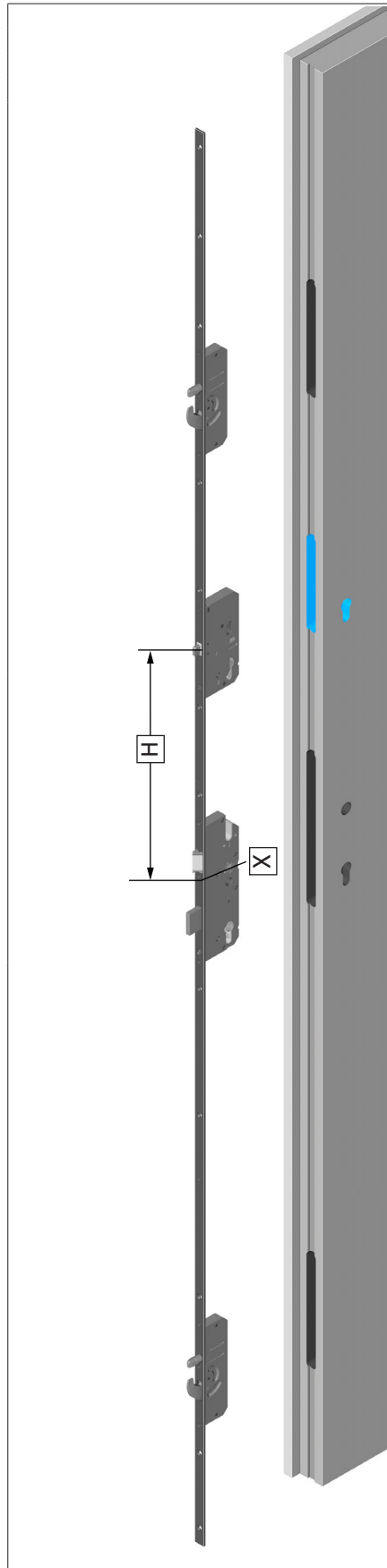
4.6.2 Milling the routed pocket for the additional deadbolt lock TR



Determination of position, see chapter 3.1 „Size variants“ from page 10.

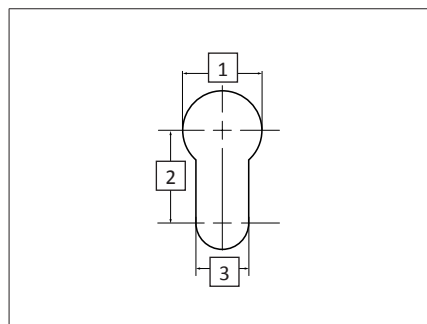


Wear safety goggles



Additional deadbolt lock TR

- [1] 16.0 mm
- [2] 144.0 mm
- [3] 40.5 mm
- [L] Rear backset dimensions + 1 mm
- [D] Backset



Profile cylinder

- [1] Ø 18.0 mm
- [2] 21.0 mm
- [3] 12.0 mm

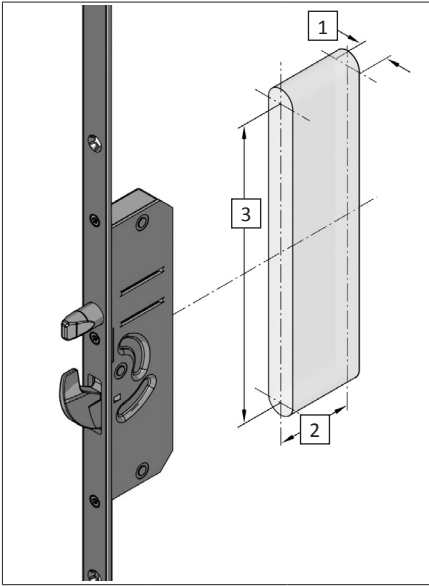
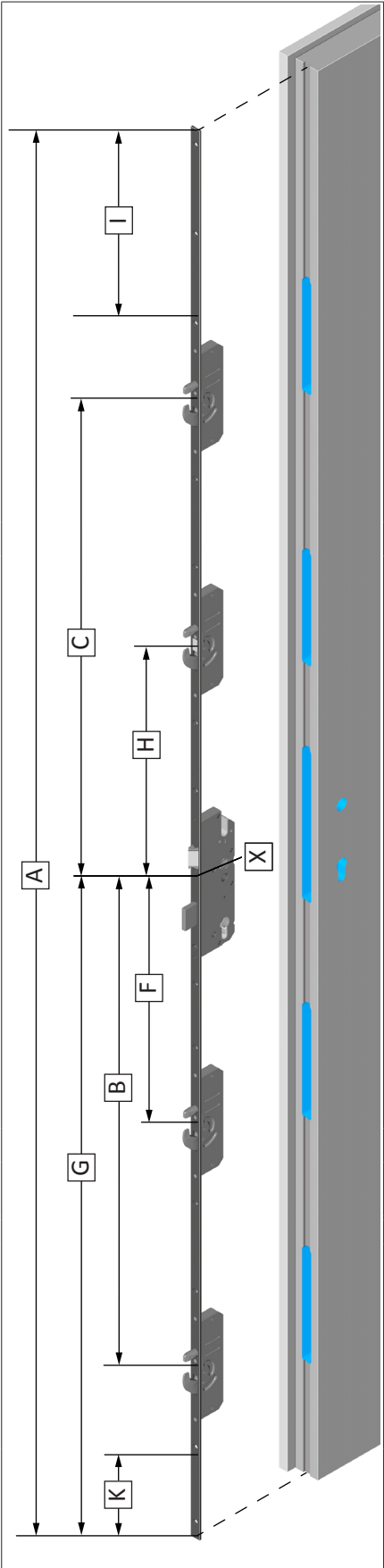
4.6.3 BS 23/25/2604



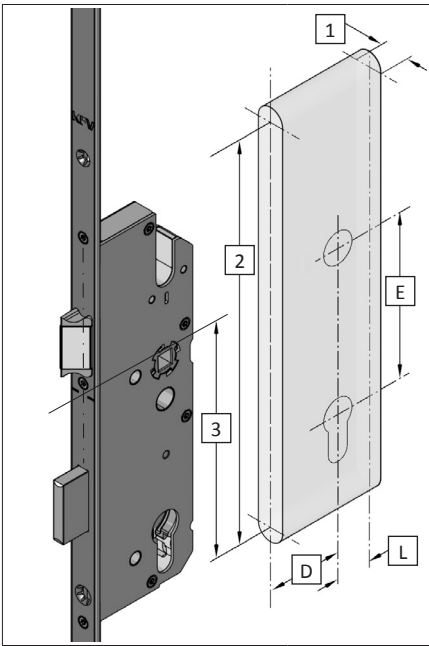
Determination of position, see chapter 3.1 „Size variants“ from page 10.



Wear safety goggles



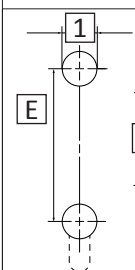
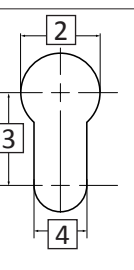
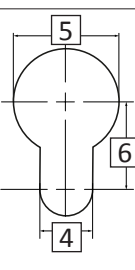
Auxiliary box
16.0 mm
42.5 mm + 1 mm
164.0 mm



Main lock
[1] 16.0 mm
[2] 234.0 mm
[3] 137.0 mm (system marking)
[L] Rear backset dimensions + 1 mm
[D] Backset
[E] PZ dimension



All dimensions of the main lock, see chapter 3.1.4 „Main lock types, key-operated“ from page 13.

Handle milling	PZ Milling	RZ Milling
		

Lever handle and cylinder
[1] Ø 18.0 mm
[2] Ø 18.0 mm
[3] 21.0 mm
[4] 12.0 mm
[5] Ø 24.0 mm
[6] 20.0 mm
[E] PZ dimension

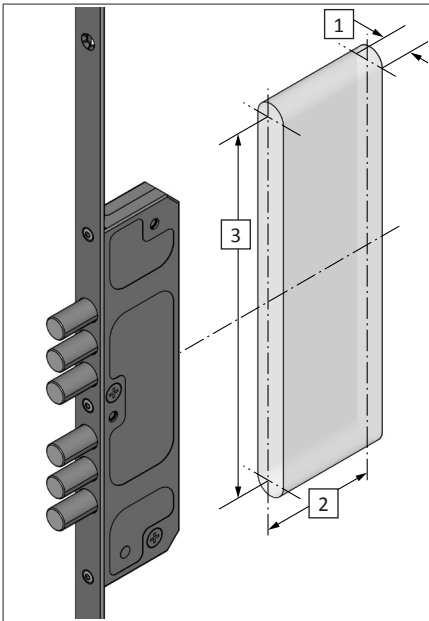
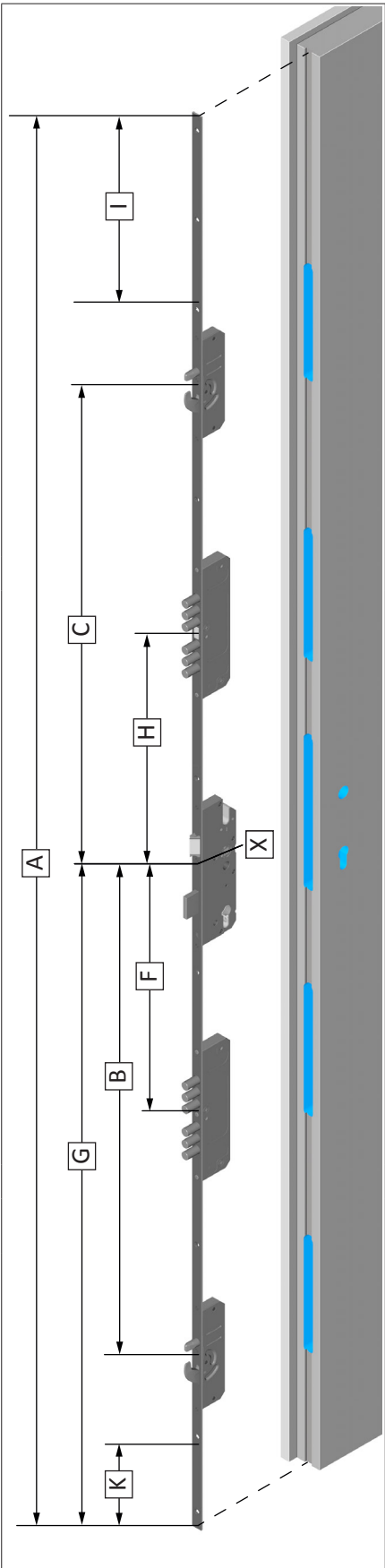
4.6.4 BS 2616



Determination of position, see chapter 3.1 „Size variants“ from page 10.

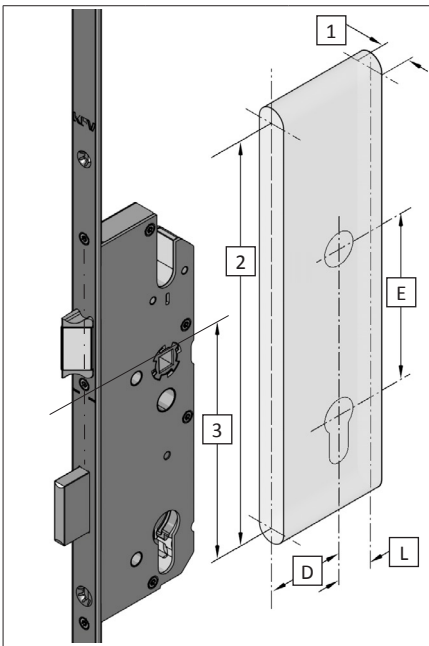


Wear safety goggles



Auxiliary box

- [1] 16.0 mm
- [2] 55.0 mm + 1 mm
- [3] 204.0 mm

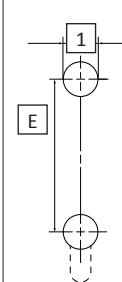
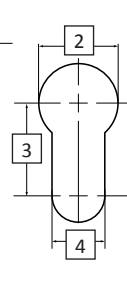
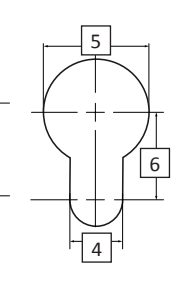


Main lock

- [1] 16.0 mm
- [2] 234.0 mm
- [3] 137.0 mm (system marking)
- [L] Rear backset dimensions + 1 mm
- [D] Backset
- [E] PZ dimension



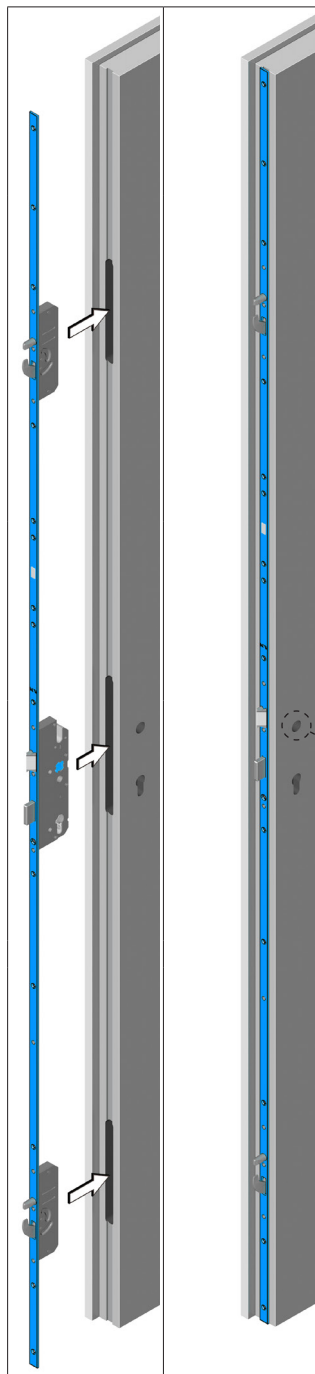
For all dimensions of the main lock, see chapter 3.1.4 „Main lock types, key-operated“ from page 13.

Handle milling	PZ milling	RZ milling
		

Lever handle and cylinder

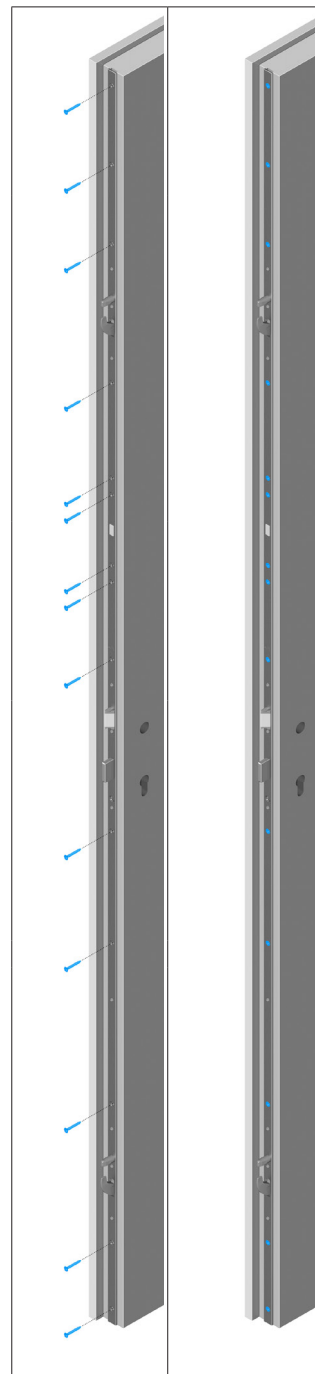
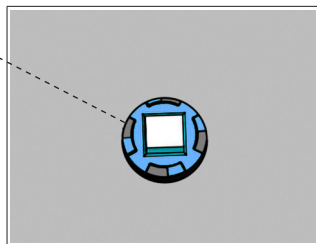
- [1] Ø 18.0 mm
- [2] Ø 18.0 mm
- [3] 21.0 mm
- [4] 12.0 mm
- [5] Ø 24.0 mm
- [6] 20.0 mm
- [E] PZ dimension

4.7 Installing the multi-point lock

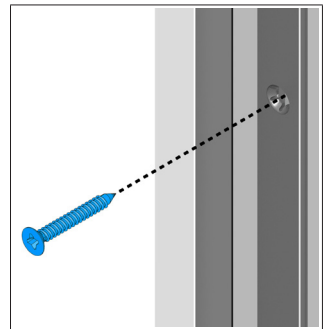


- Insert the multi-point lock in the milled door leaf.

! Adjust the position to the handle nut.

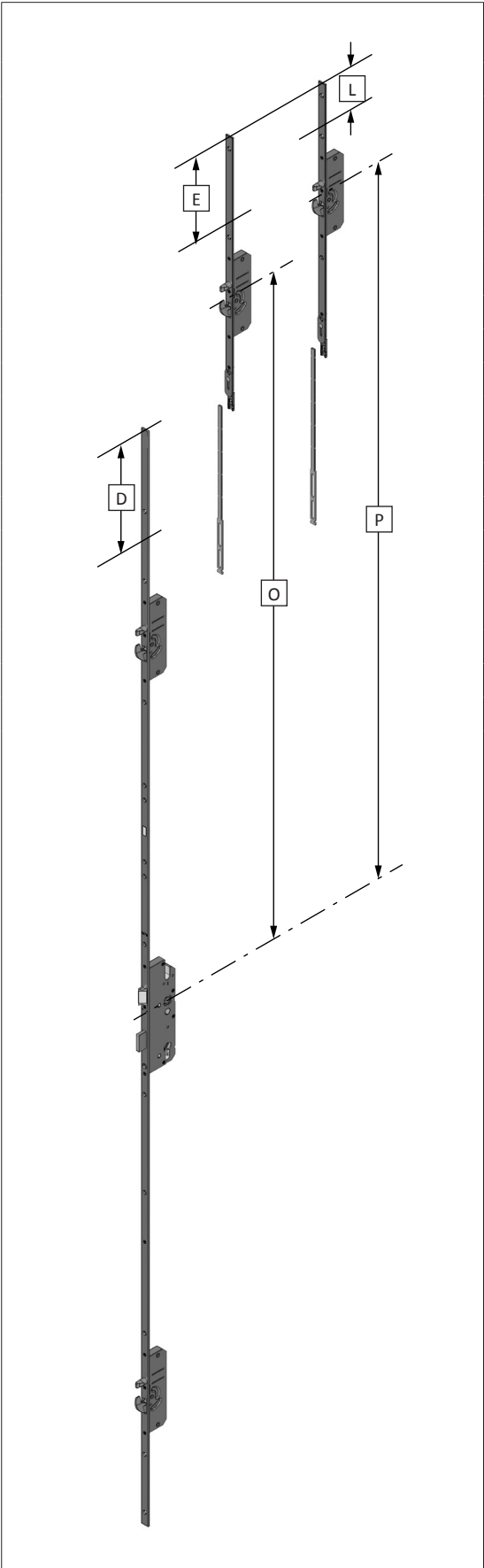


- Screw the multi-point lock to the door leaf.



4.8 Extension pieces

For tall doors, the multi-point lock can be supplemented at the top with an additional auxiliary box.



Size variants	Multi-point lock	BV 1X00-1		BV 1X00-2	
		D	E	O	L
		max. cropping possibility	max. cropping possibility	Achievable position of the auxiliary box	Achievable position of the auxiliary box
B296		605	180	725-1330	90
B298		355	180	975-1330	90
B001		230	180	1100-1330	90
B003		210	180	1320-1530	90

B325	575	180	725-1300	90	819-1394
B327	325	180	975-1300	90	1063-1394
B002	200	180	1100-1300	90	1194-1394
B004	180	180	1320-1500	90	1414-1594

K296		180	730	90	824
K298		180	980	90	1074
K001		180	1105	90	1199
K003		180	1355	90	1449

K010	440	180	1083-1523	90	1177-1617
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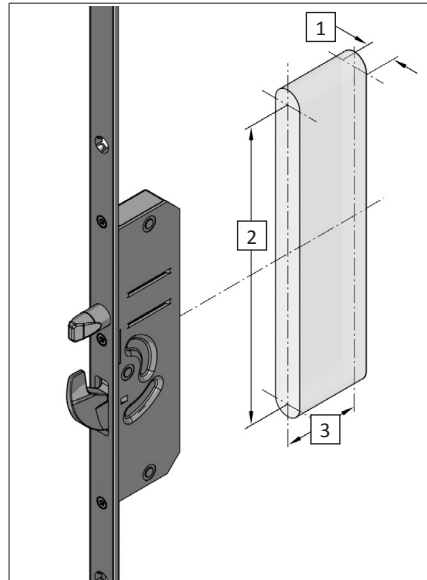
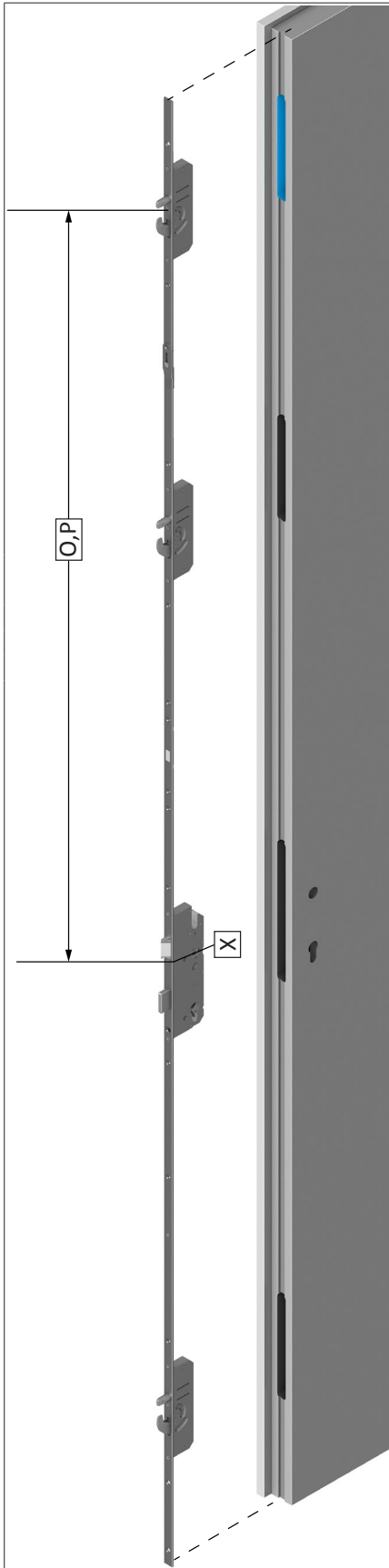
4.8.1 Milling the door leaf for extension pieces BV 13/15/1600-1, BV 13/15/1600-2



Determination of position, see chapter 4.8 „Extension pieces“ from page 28.



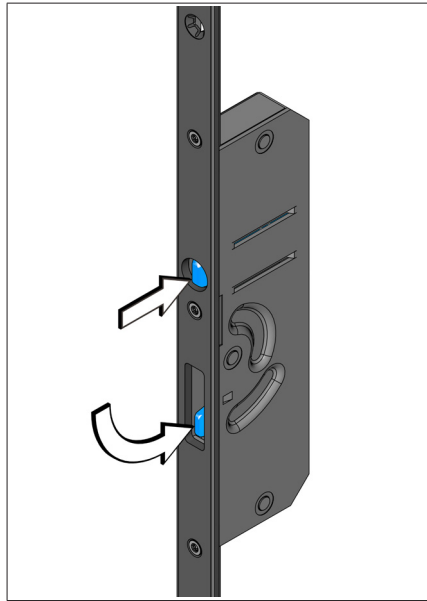
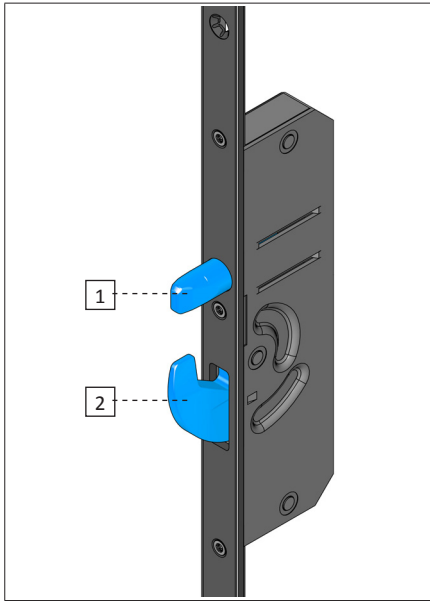
Wear safety goggles



Auxiliary box

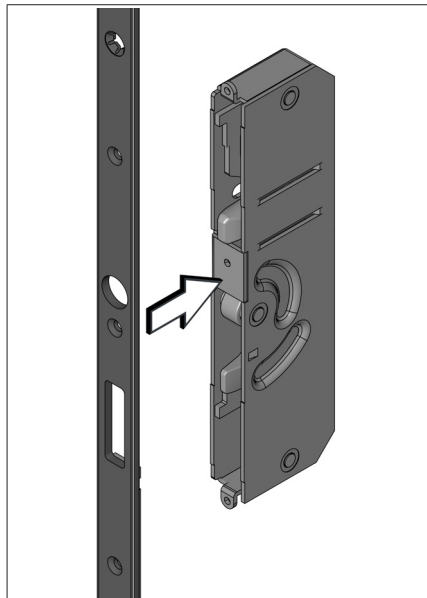
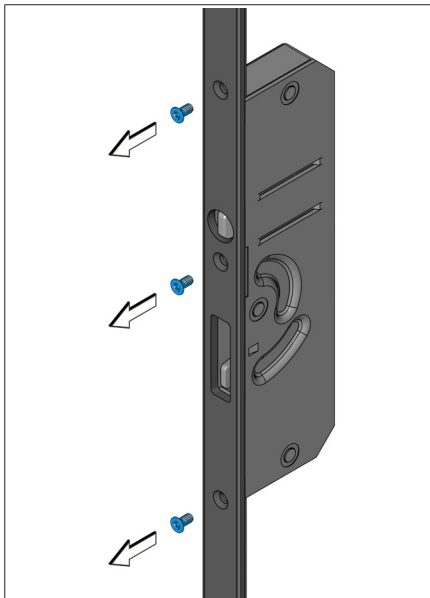
- [1] 16.0 mm
- [2] 164.0 mm
- [3] 42.5 mm + 1 mm

4.8.2 Mounting the drive rod

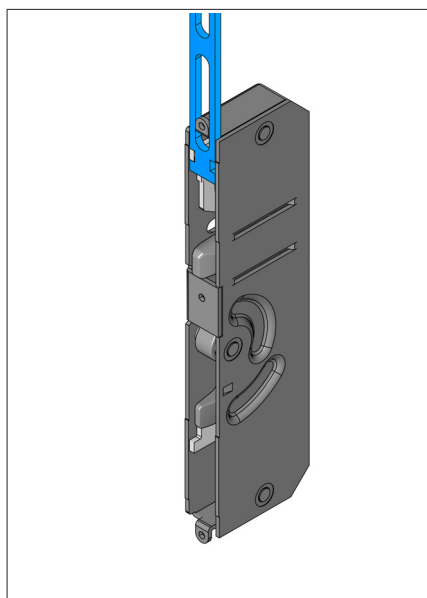
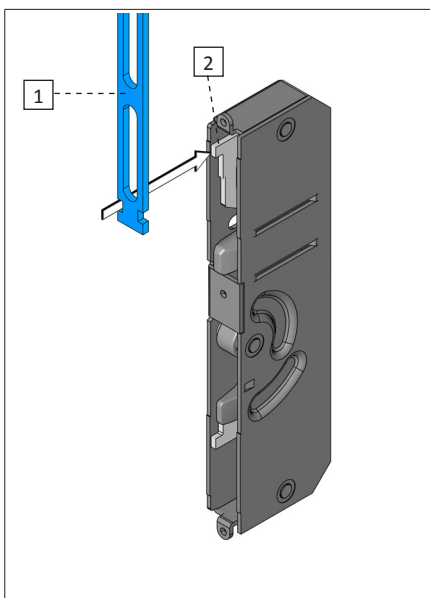


A connection must be established between the top auxiliary box of the multi-point lock and the auxiliary box of the extension piece using a drive rod.

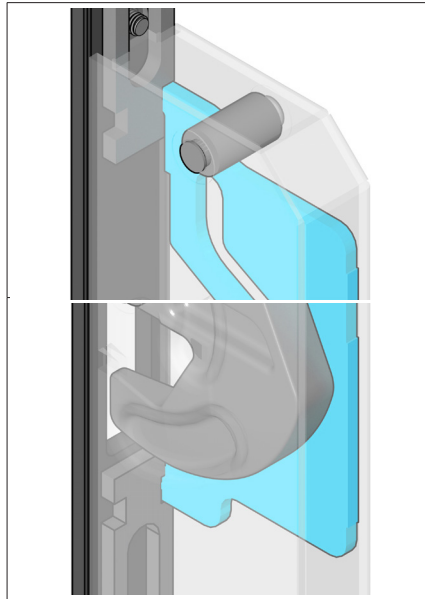
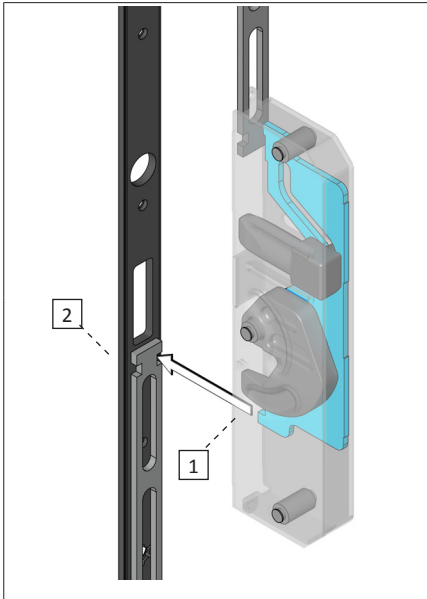
- Bring the locking elements of the multi-point lock into the release position.



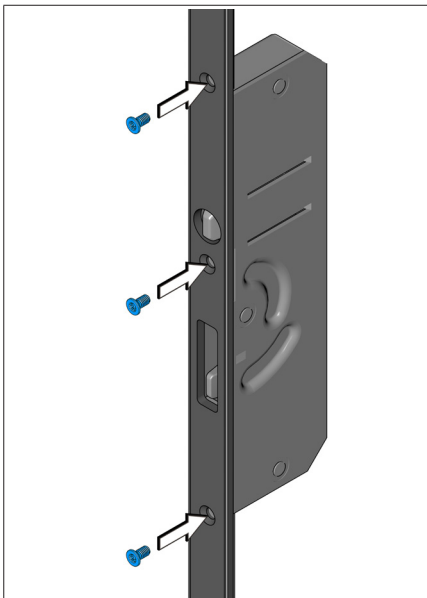
- Loosen the screwing of the top auxiliary box of the multi-point lock and remove the auxiliary box from the face plate.



- Suspend the drive rod [1] in the striker packer of the slider [2].



- Replace the auxiliary box on the face plate.
- Ensure the proper coupling of the slider packer of the slider [1] with the recess of the drive rod [2].



Use the new screws enclosed.
The old screws must not be reused.



TX 10
1.5 Nm

- Screw the top auxiliary box to the face plate.

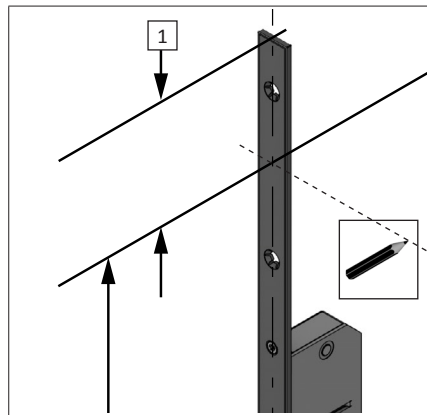
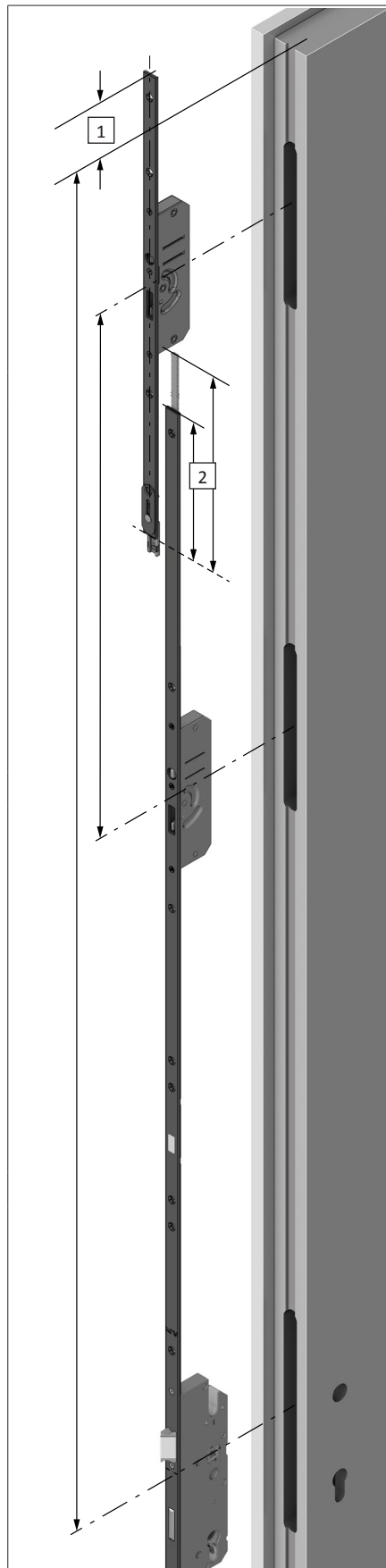
4.8.3 Measure and crop reductions



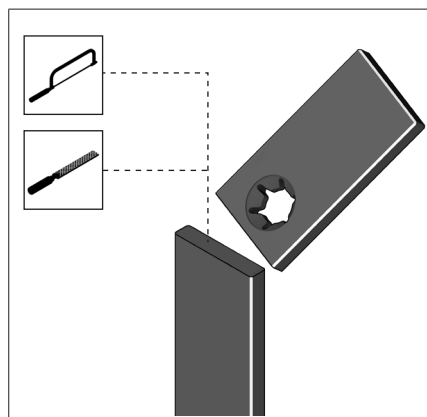
Determination of position, see chapter 4.8 „Extension pieces“ from page 28.



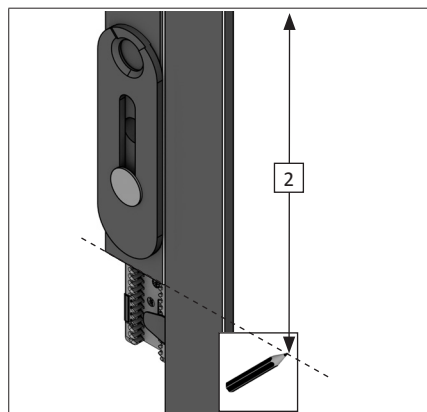
Wear safety gloves



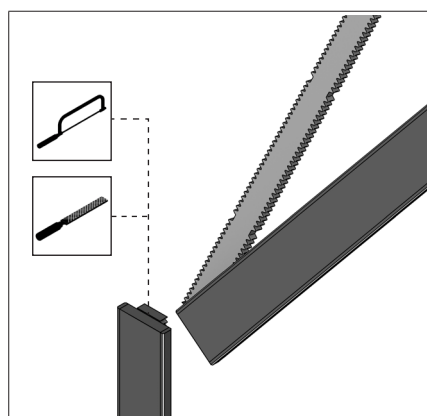
- Mark the top projection [1] of the extension piece.



- Crop the projection and deburr the sawn edges.

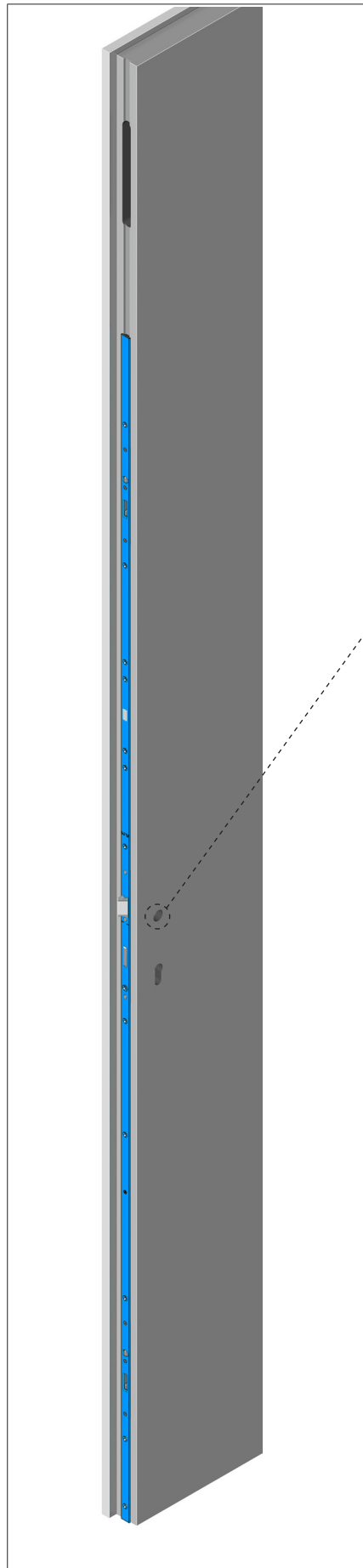
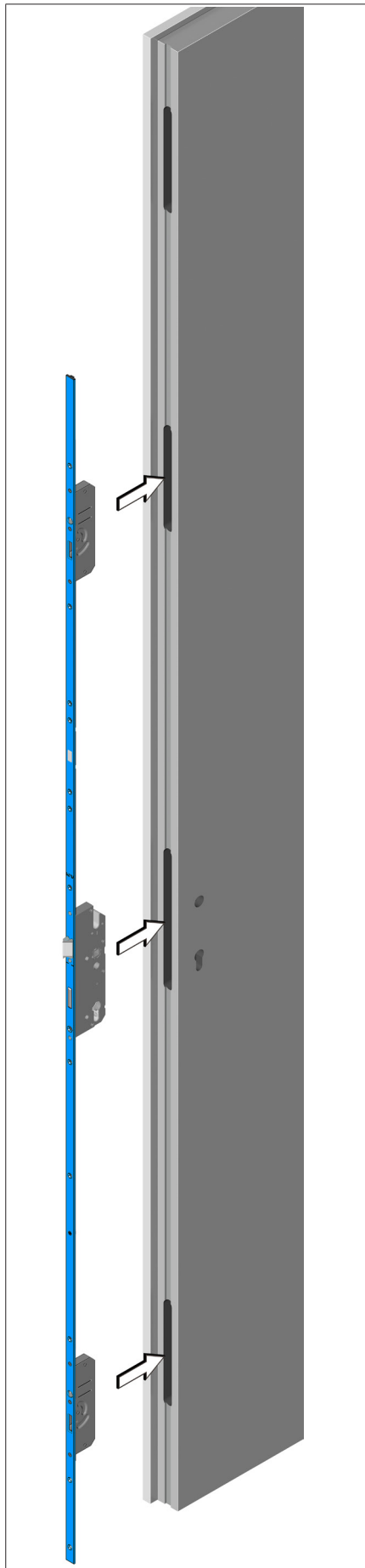


- Mark the projection [2] of the face plate and drive rod of the multi-point locks.



- Crop the projection of the faceplate and drive rod from the face plate and drive rod and deburr the sawn edges.

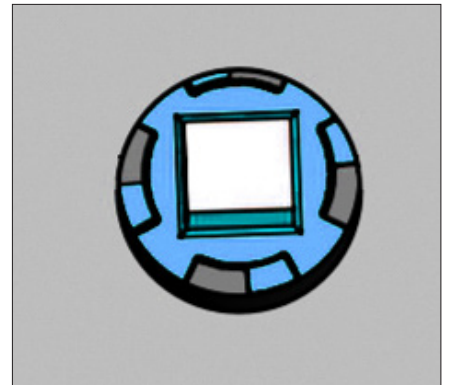
4.9 Installing the multi-point lock and extension piece

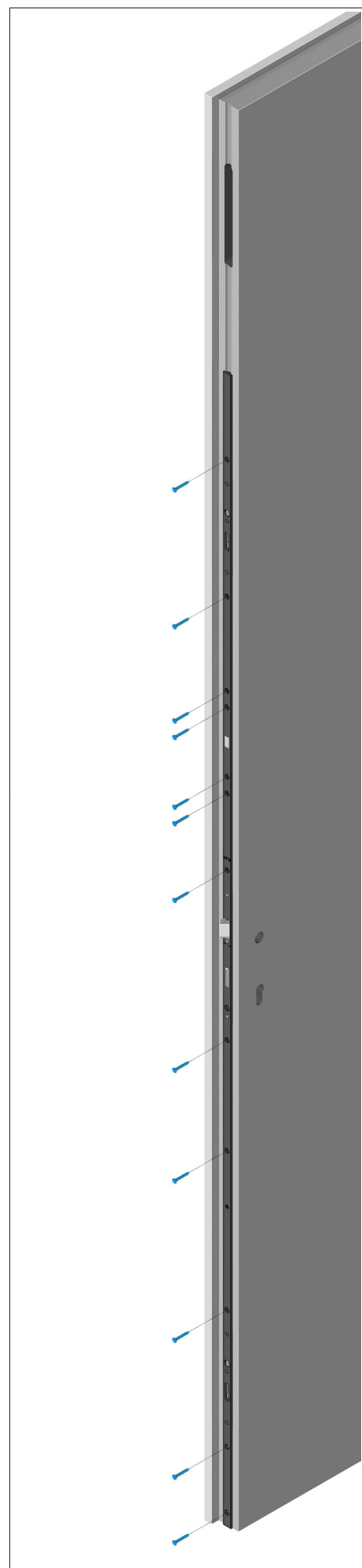


► Insert the multi-point lock in the milled door leaf.

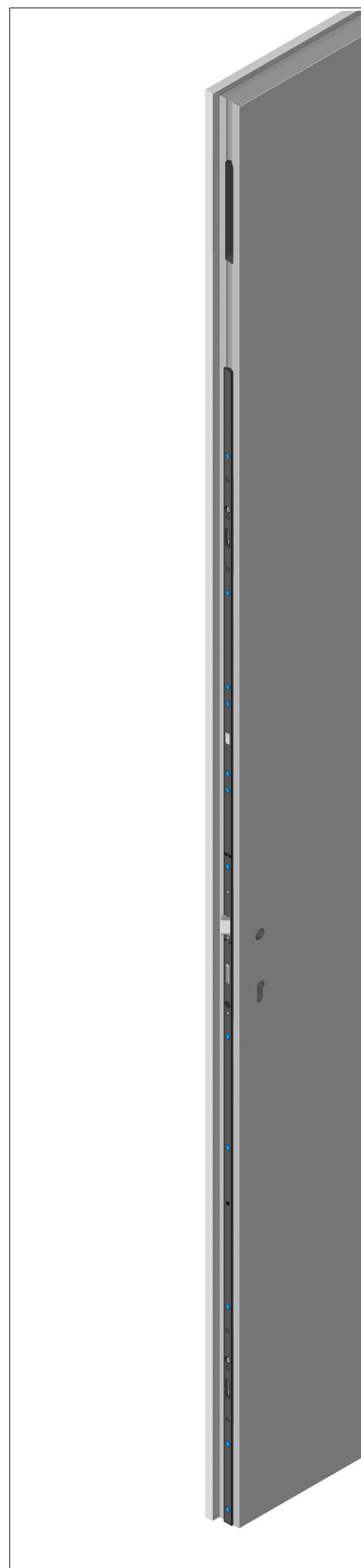
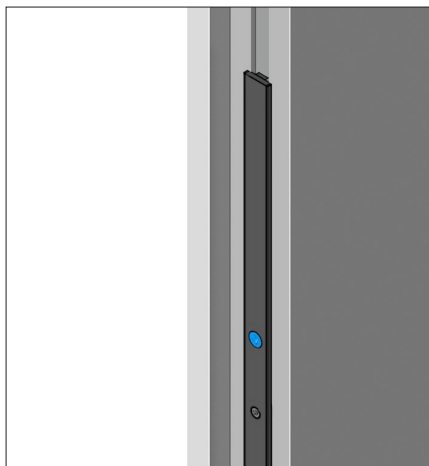
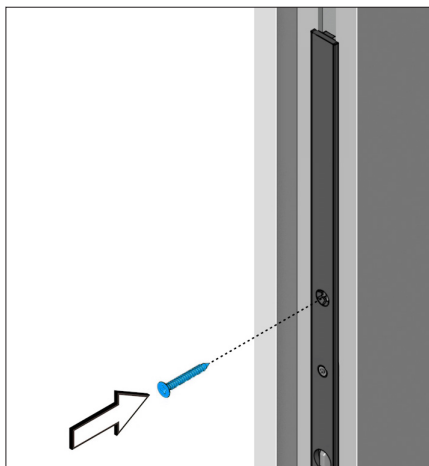


Adjust the position of the multi-point lock to the handle nut.





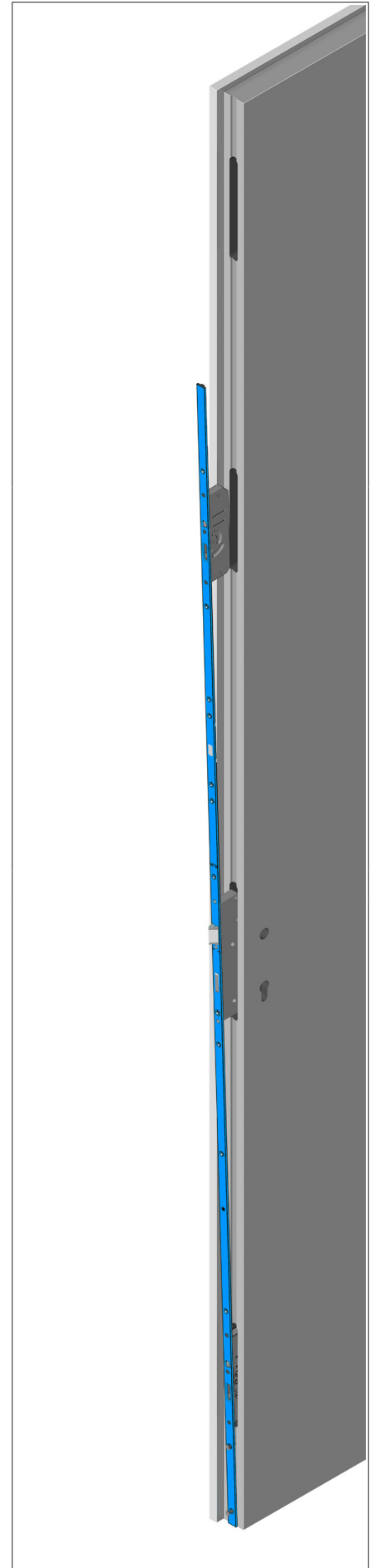
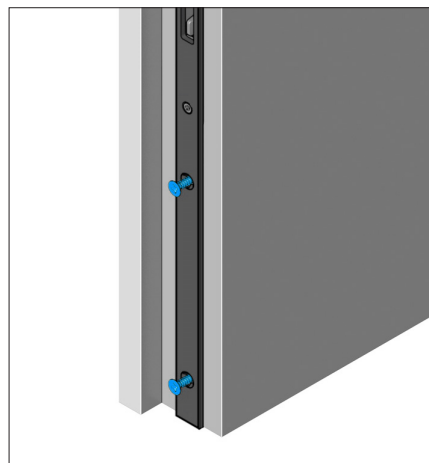
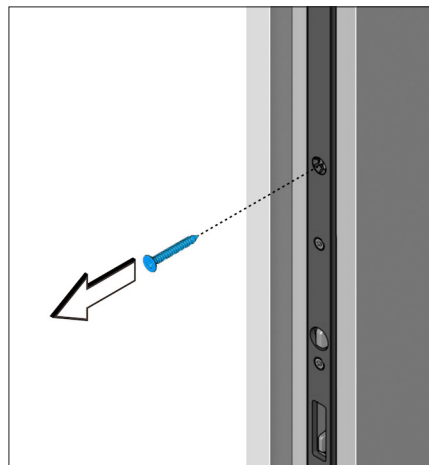
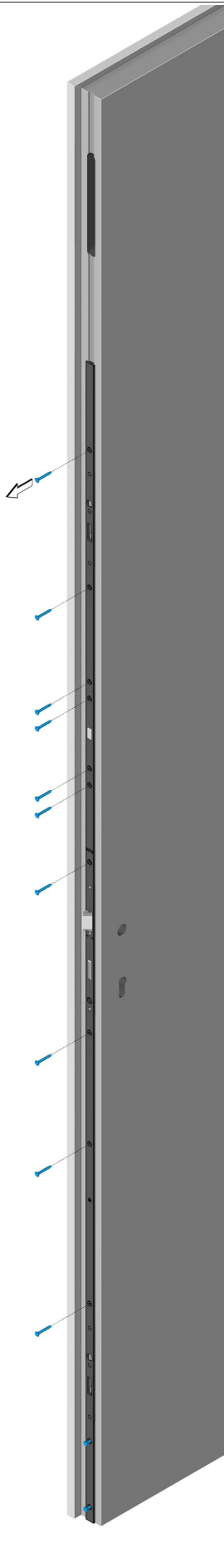
► Fix the multi-point lock using all screws provided.



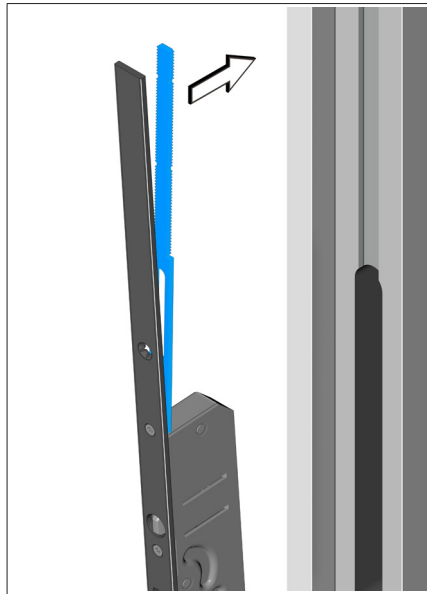
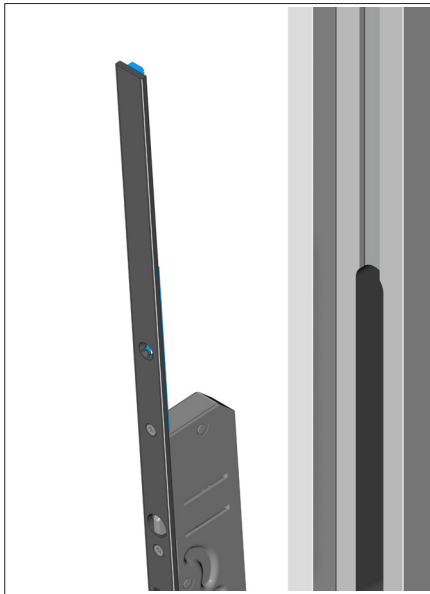


Hold the multi-point lock firmly during the installation.

- ▶ Remove the screws except for two screws at the bottom end of the face plate.
- ▶ Loosen the two remaining screws to such an extent that the multi-point lock can be pulled out of the door leaf at the top end.

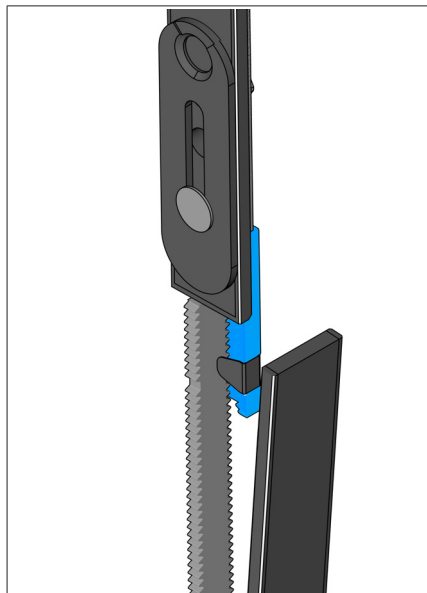
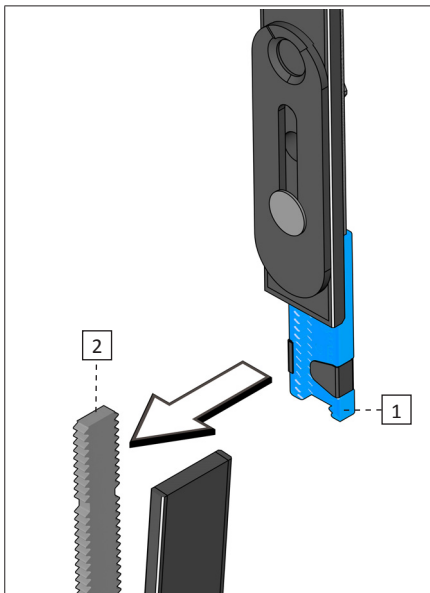


4.9.1 Mounting the extension piece

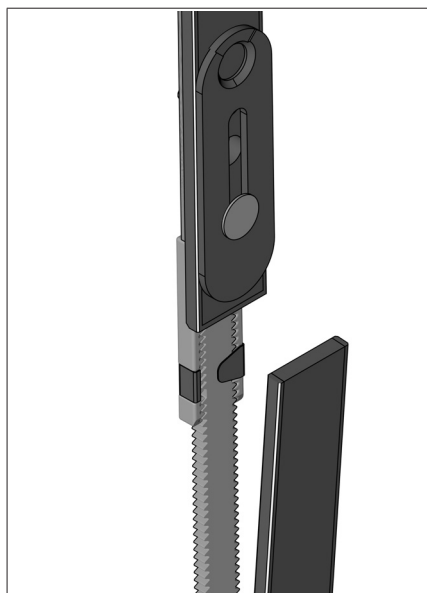
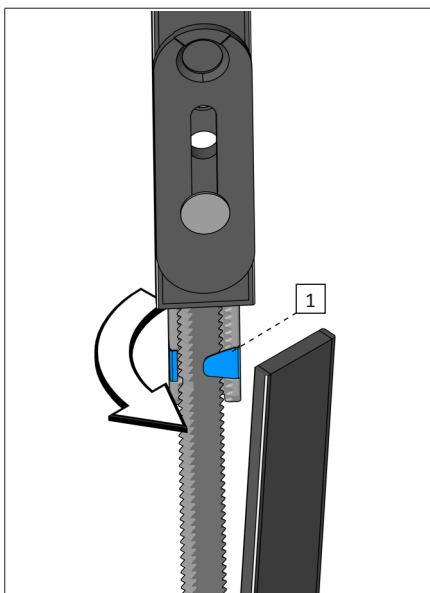


Do not bend the drive rod under any circumstances.

- Carefully angle the drive rod away from the face plate.

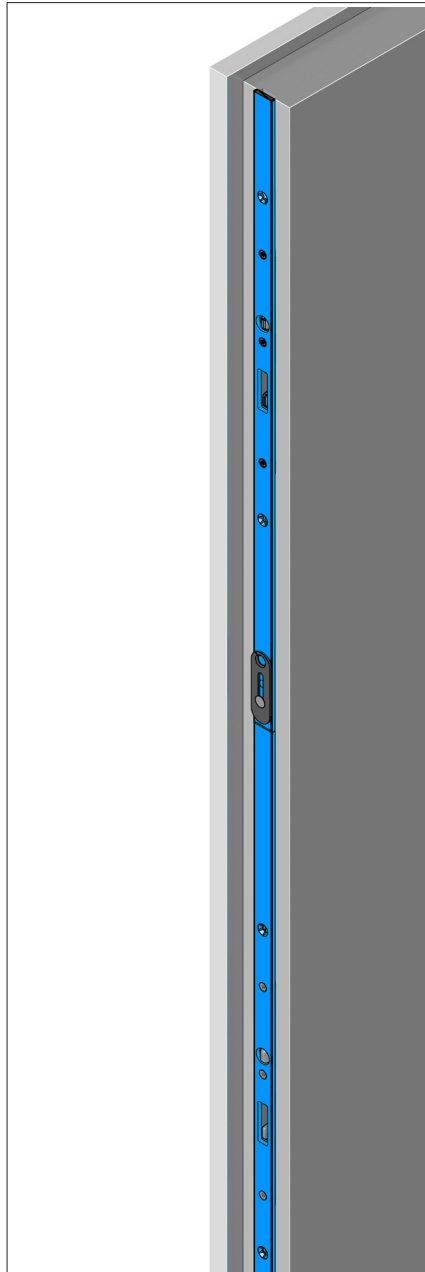
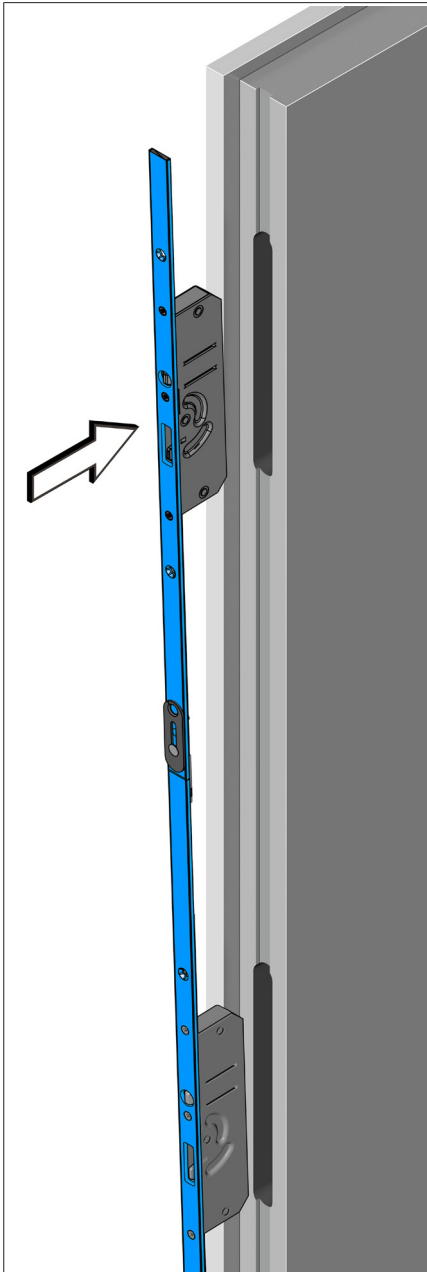


- Guide the toothed shoe [1] of the extension piece at a right angle to the drive rod [2] of the multi-point lock.

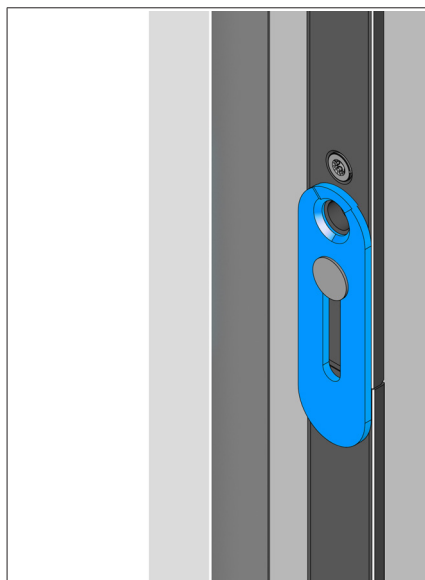
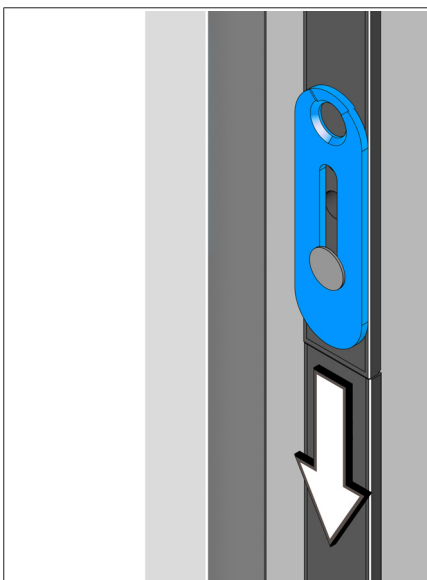


Do not overstretch the security spring [1] while inserting the drive rod into the toothed shoe.

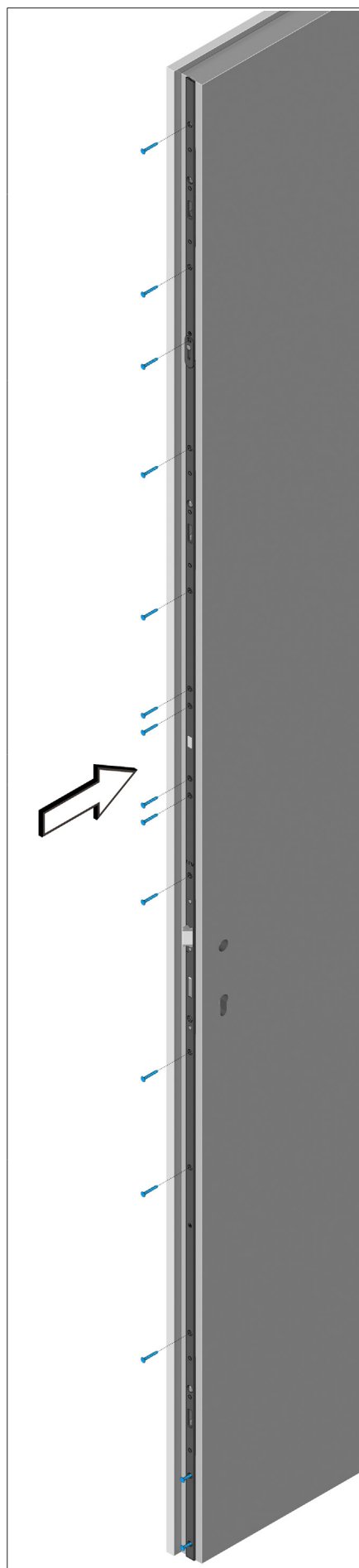
- Carefully guide the drive rod beneath the security spring [1] of the toothed shoe.



- Insert the multi-point lock together with the extension piece into the routed pockets.

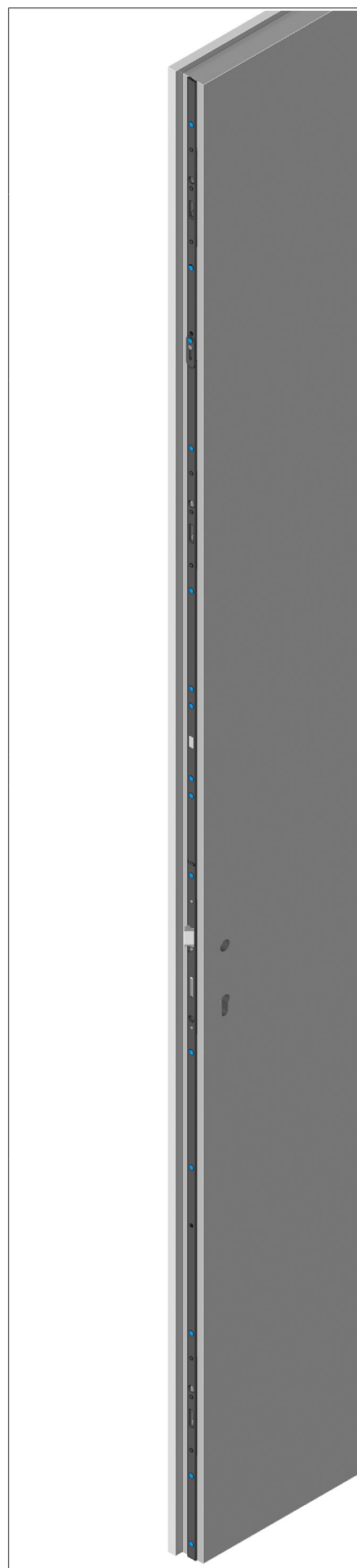
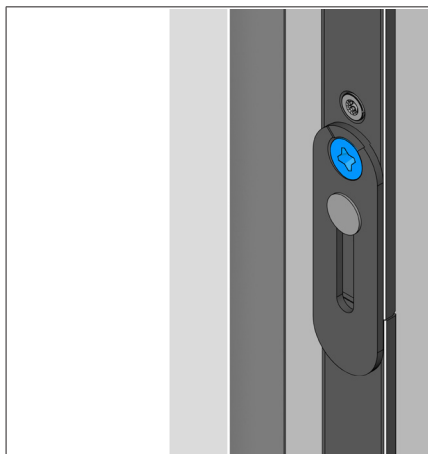
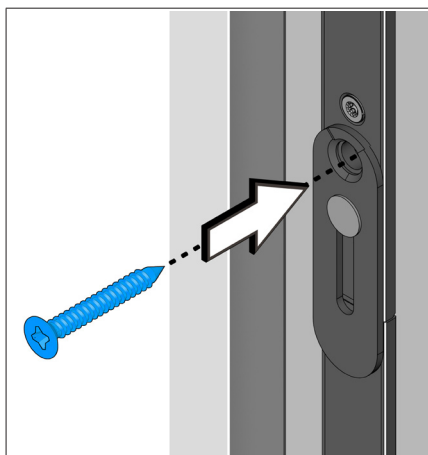


- Push the cover plate downwards over the weld of the face plate.



► Fix the multi-point lock and the extension piece using all screws provided.

► Fix the cover plate with one screw.



4.10 Mounting the hardware



Prior to the assembly of the hardware, observe the enclosed assembly instructions of the manufacturer.



Compare the drilling template for the hardware with the positions of the fixing holes for the gear box before drilling, see chapter 3.1.4 „Main lock types, key-operated“ from page 13.



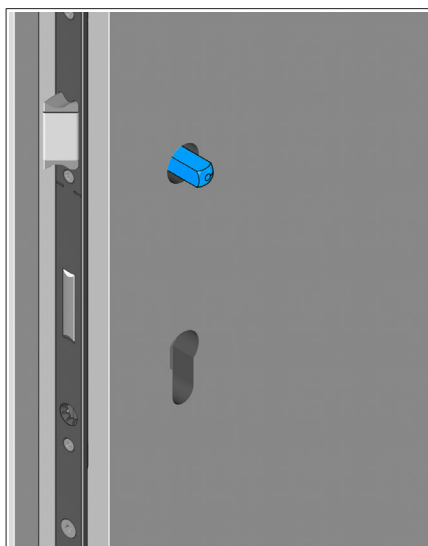
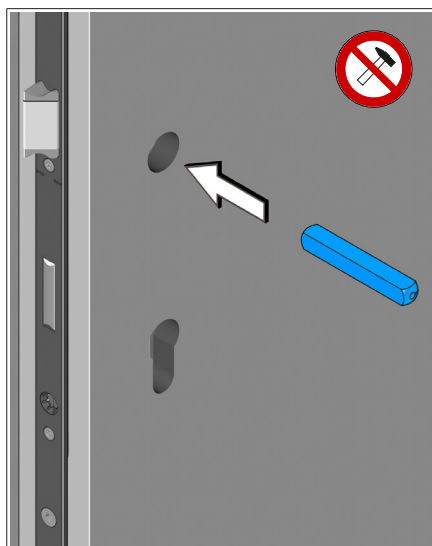
Dismount the multi-point lock before drilling.

4.10.1 Mounting the handle set

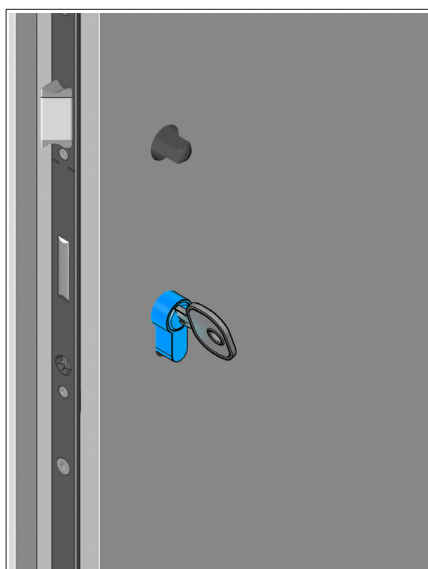
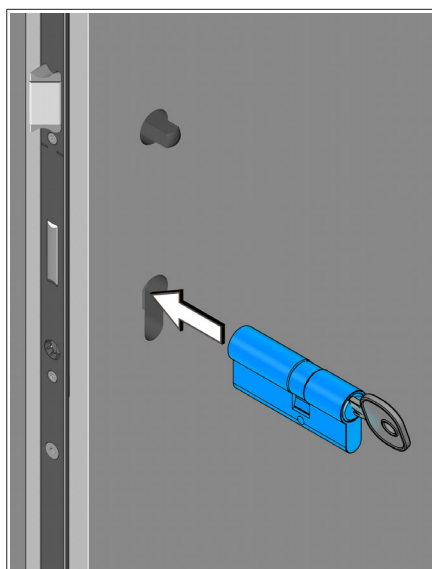
Marking and drilling the holes

- ▶ With the multi-point lock installed, adjust the drilling template, enclosed with the hardware, on the square spindle and mark the positions of the holes.
- ▶ Dismount the multi-point lock and drill the holes.
- ▶ Install the multi-point lock again.

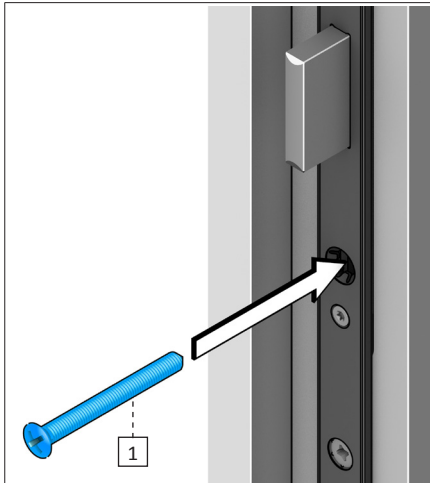
Installing the hardware components



- ▶ Insert the square spindle of the lever handle into the handle nut.



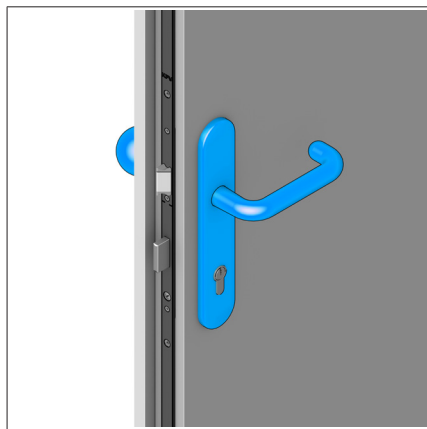
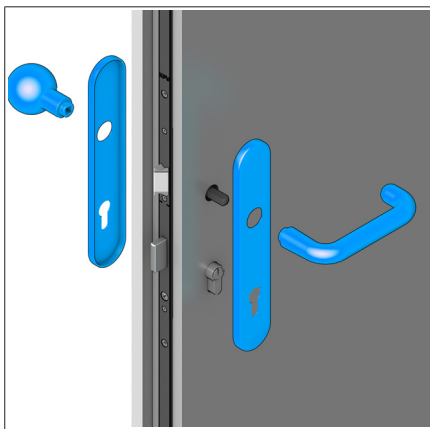
- ▶ Insert the cylinder lock into the main lock.



- Fix the cylinder lock with the cylinder lock screw [1].



When fastening the cylinder lock screw, observe the manufacturer's torque specifications.



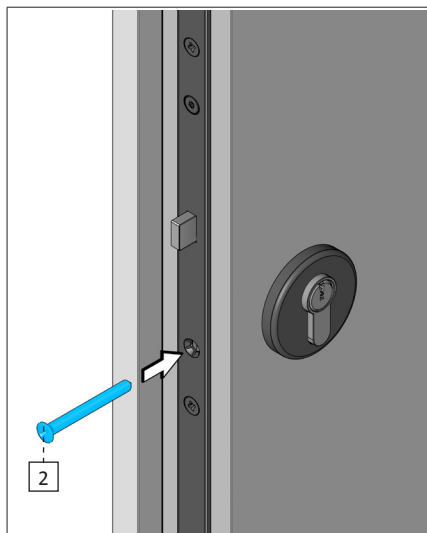
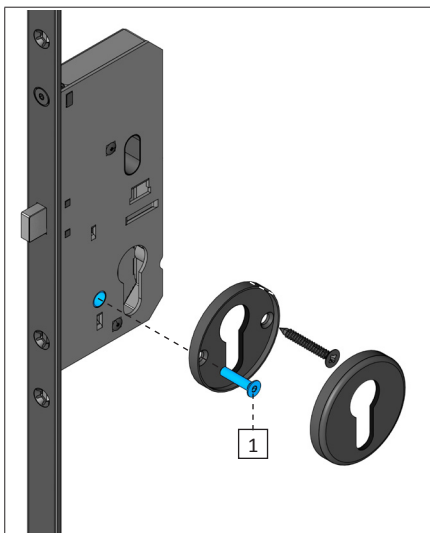
- Install the handle set according to the enclosed assembly instructions of the manufacturer.

4.10.2 Mounting the hardware for the additional deadbolt lock TR

Marking and drilling the holes

- With the multi-point lock installed, adjust the drilling template (enclosed with the hardware) on the cylinder lock and mark the positions of the holes.
- Dismount the cylinder lock and multi-point lock and drill the holes.
- Install the multi-point lock again.

Installing the hardware components



Fixing screw [1] = M4

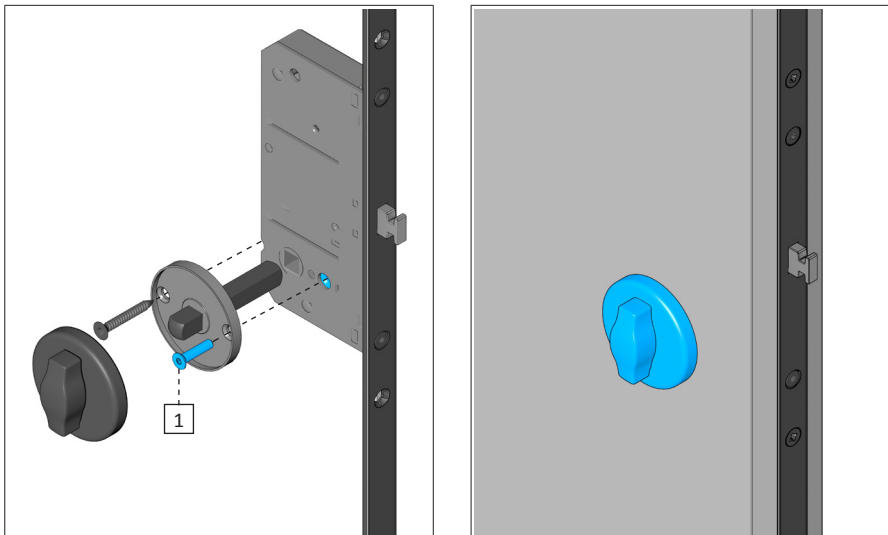
- Install the hardware components according to the enclosed assembly instructions of the producer.
- Fix the cylinder lock with the cylinder lock screw [2].

4.10.3 Mounting the hardware for the safety lock T2

Marking and drilling the holes

- With the multi-point lock installed, adjust the drilling template (enclosed with the hardware) on the square spindle and mark the positions of the holes.
- Dismount the multi-point lock and drill the holes.
- Install the multi-point lock again.

Installing the hardware components



Fixing screw [1] = M4

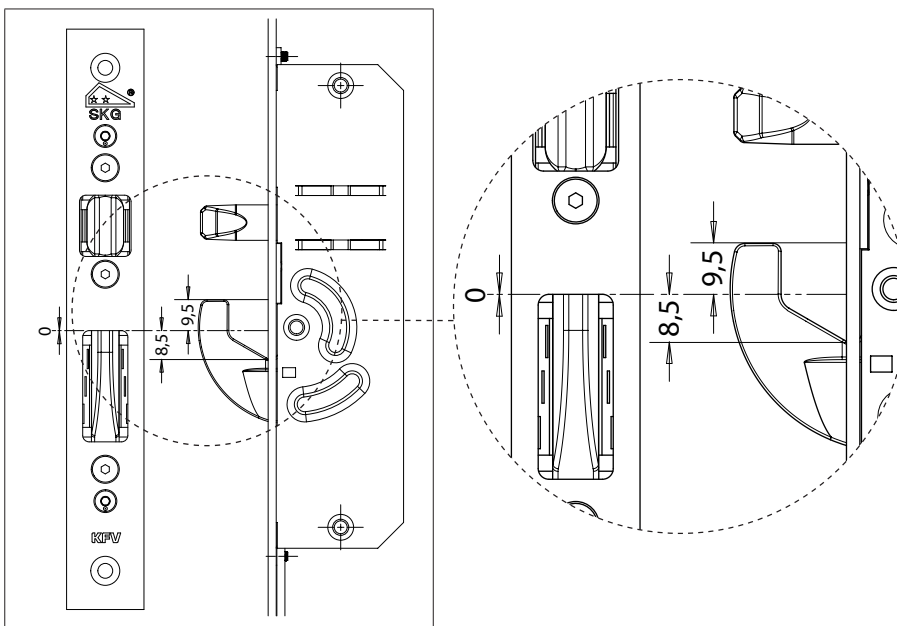
- Install the hardware components according to the enclosed assembly instructions of the producer.

4.11 Milling the frame

4.11.1 Assembly specifications for SKG certified frame parts



The dimensions for the vertical position must be exactly adhered to for the assembly of the frame parts. Consequently, it is ensured that the hook bolt can move fully into the locking position and achieve the specified minimum dimension for the grip into the frame part.



The hook bolt must lock min. 9.5 mm into the frame part.

The hook bolt must move smoothly and completely into the locking position and the release position.

Position the required routed pockets and mount the frame parts with the specified screws, (see chapter 4.12 „Screwing specifications for SKG certified frame parts“ from page 49).

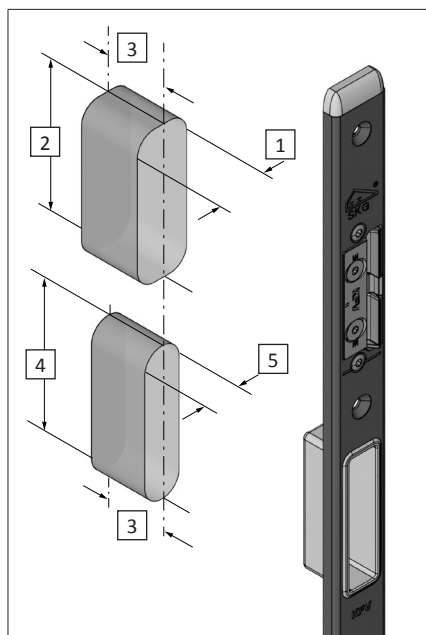
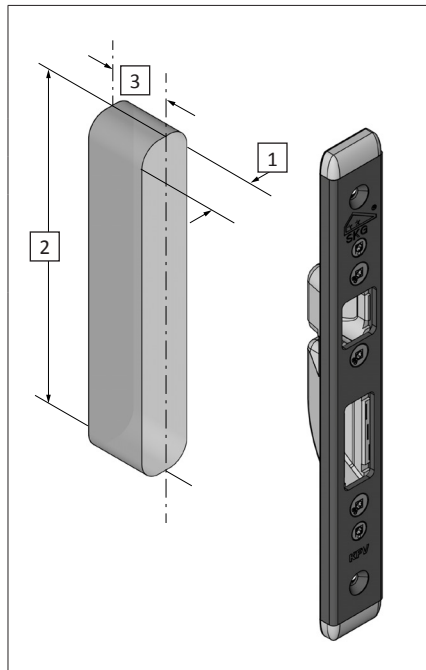
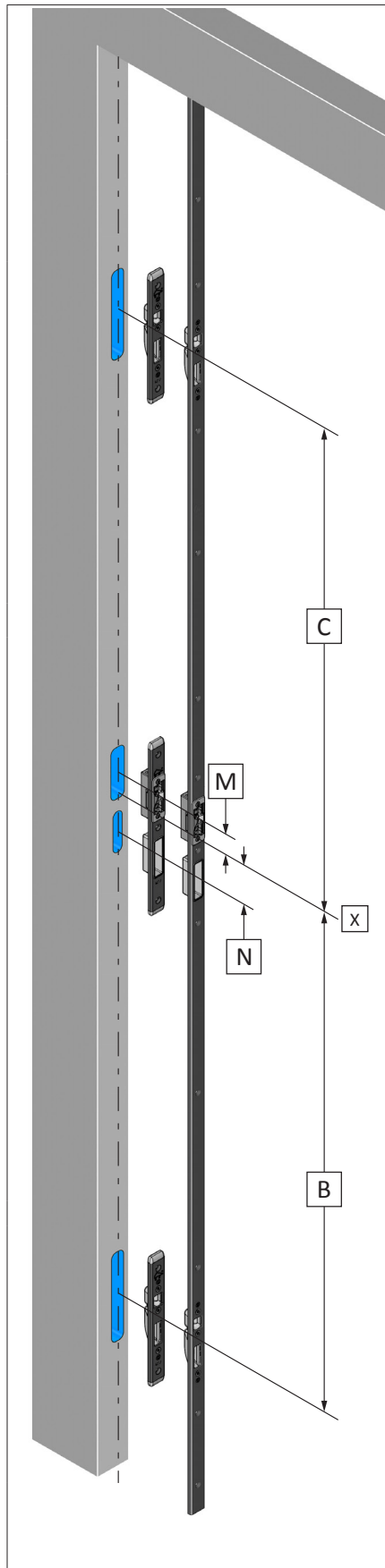
4.11.2 Frame milling for BS 23/25/2600



Determination of position, see chapter 3.1 „Size variants“ from page 10.



Always use safety goggles for milling work.



AT piece and main lock deadbolt backing

- [1] 23.0 mm
- [2] 72.0 mm
- [3] Component height plus 1 mm
- [4] 62.0 mm
- [5] 16.0 mm



Milling is omitted for U-profiles from a leg length of 6 mm and with use of the AT piece series 118/119.

The cutting dimensions given refer to:

E8H striker plate: Main lock

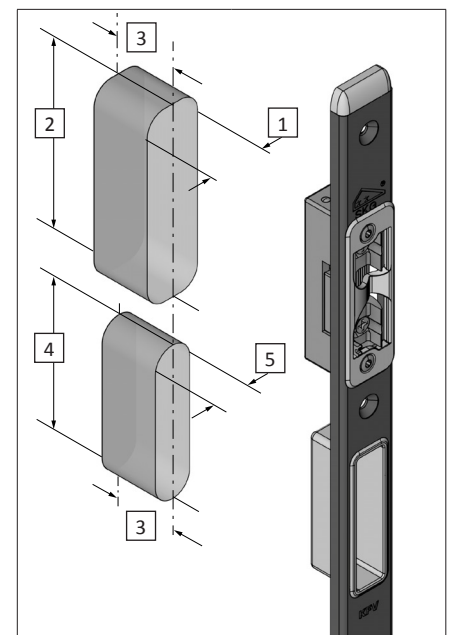
Q striker plate: Auxiliary box

E8QH: Locking rail

Contact the KFV customer service to find out the cutting dimensions for other frame parts or locking rails.

Q adjustment of the auxiliary boxes

- [1] 21.0 mm
- [2] 135.0 mm
- [3] Component height plus 1 mm



Day latch and main lock deadbolt backing

- [1] 23.5 mm
- [2] 78.0 mm
- [3] Component height plus 1 mm
- [4] 62.0 mm
- [5] 16.0 mm

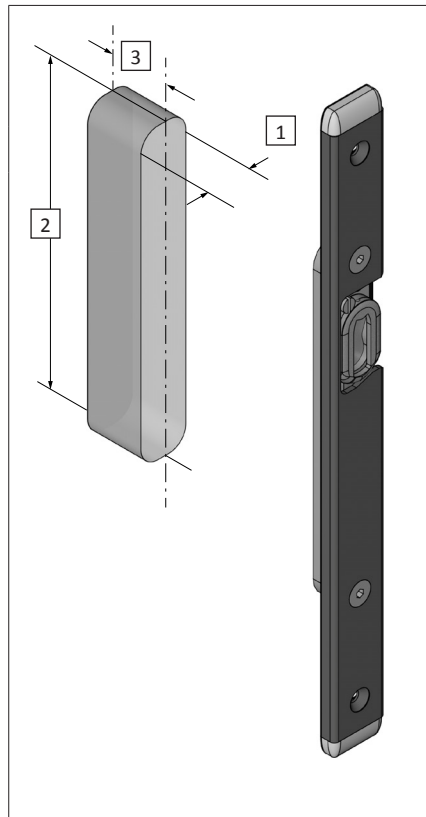
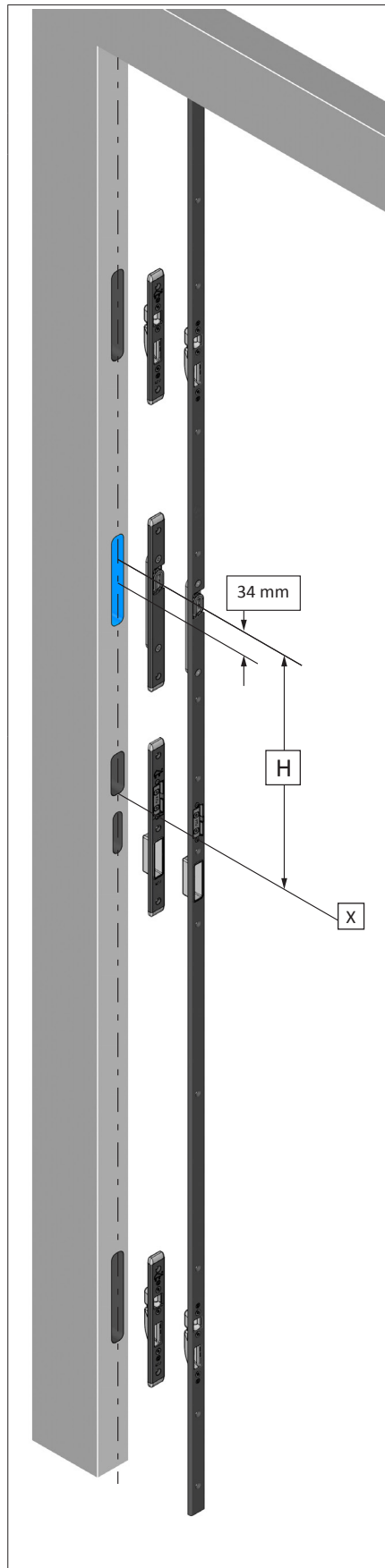
4.11.3 Frame milling for 23/25/2600 T2 (safety lock)



Determination of position, see chapter 3.1 „Size variants“ from page 10.



Always use safety goggles for milling work.



The cutting dimensions given refer to:

T2 striker plate: Safety lock

E8QT2H: Locking rail with T2

Contact the KFV customer service to find out the cutting dimensions for other frame parts or locking rails.

Bolt casing of the T2 safety lock

[1] 21.0 mm

[2] 155.0 mm

[3] Component height plus 1 mm



*The dimension "H" refers to the bolt centre of the T2 safety lock.

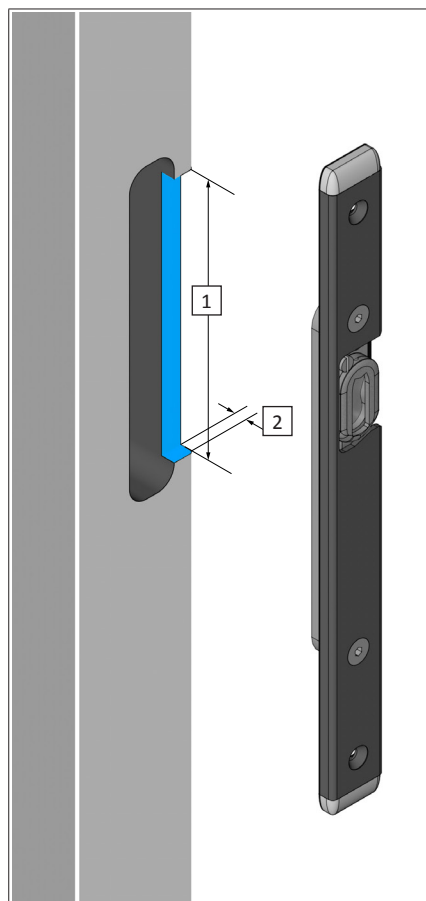
The centre of the milling of the bolt casing is 34 mm deeper.



In some cases the pivoting area of the safety catch of the frame must be laterally milled.

[1] 115.0 mm

[2] 4.0 mm + material thickness e. g. of an angle striker plate



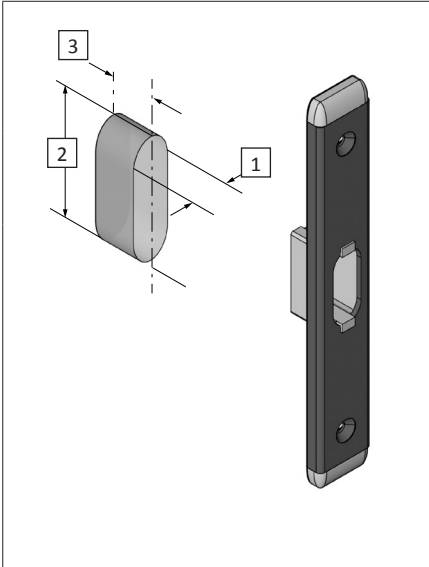
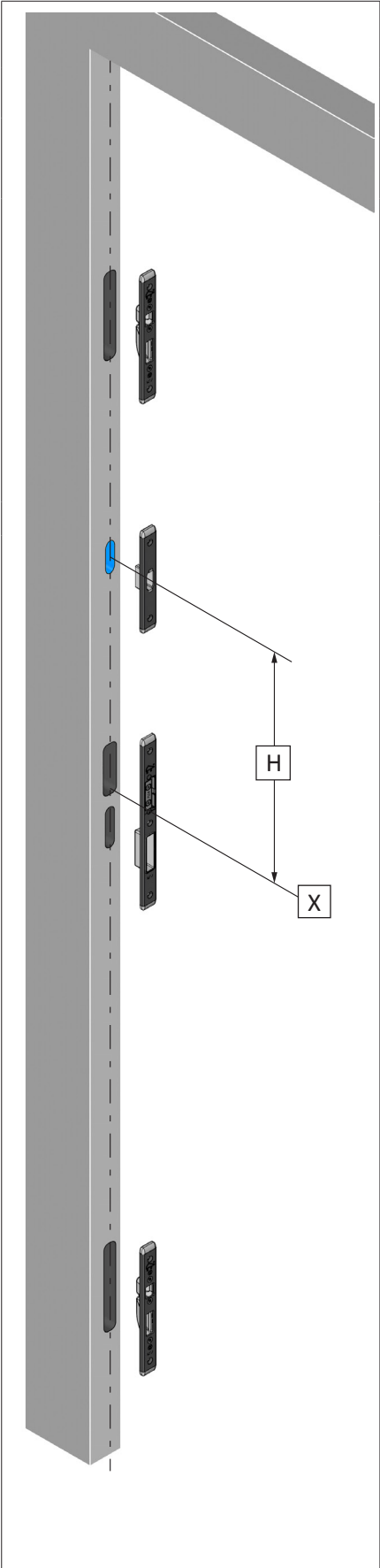
4.11.4 Frame milling for BS 23/25/2600 TR (additional deadbolt lock)



Determination of position, see chapter 3.1 „Size variants“ from page 10.



Always use safety goggles for milling work.





Only striker plates can be used if an additional deadbolt lock is used.

The cutting dimensions given refer to:	
23xx striker plate:	Additional deadbolt lock TR
Contact the KFV customer service to find out the cutting dimensions for other frame parts or locking rails.	

Additional deadbolt locks TR PVC backing

- [1] 16.0 mm
- [2] 50.0 mm
- [3] Component height plus 1 mm

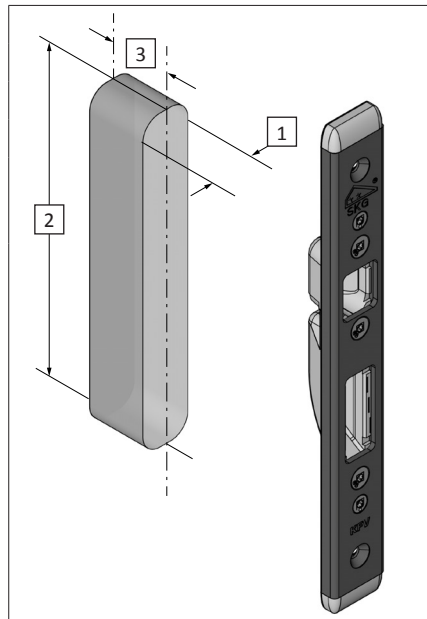
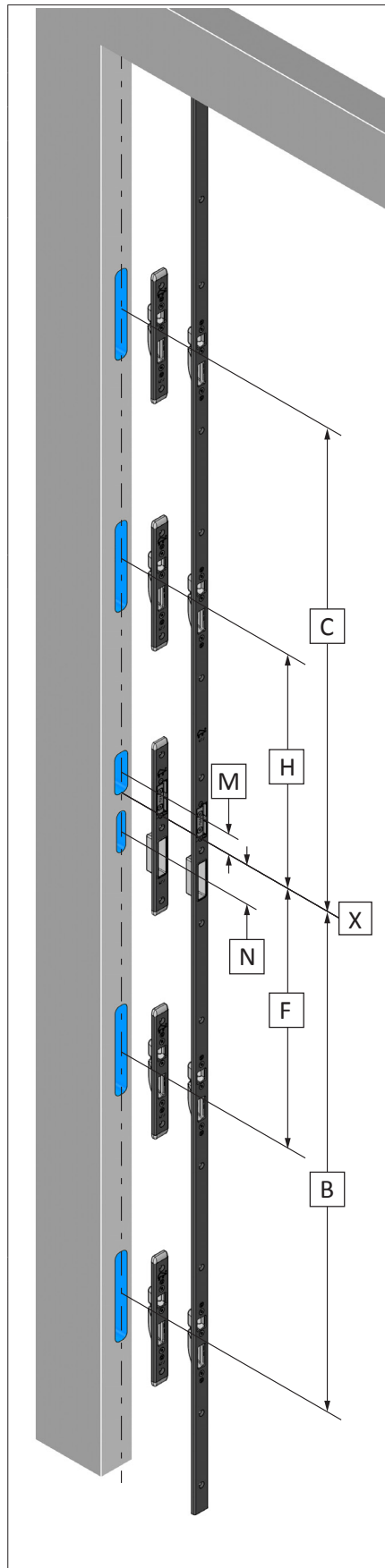
4.11.5 Frame milling for BS 23/25/2604



Determination of position, see chapter 3.1 „Size variants“ from page 10.



Always use safety goggles for milling work.



The cutting dimensions given refer to:

E8H striker plate: Main lock

Q striker plate: Auxiliary box

E8QH: Locking rail

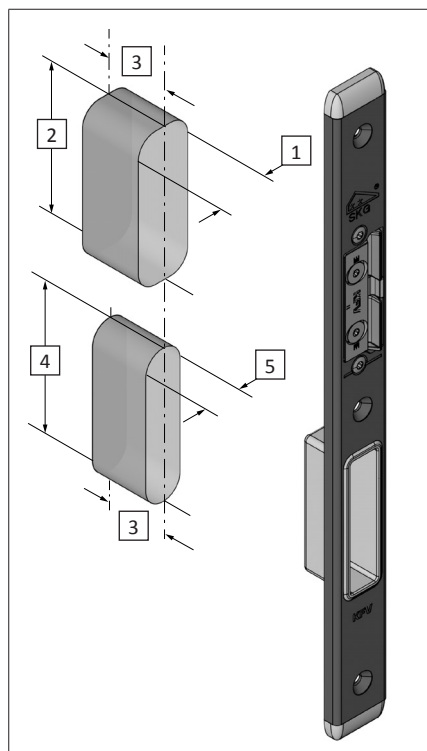
Contact the KFV customer service to find out the cutting dimensions for other frame parts or locking rails.

Q adjustment of the auxiliary boxes

[1] 21.0 mm

[2] 135.0 mm

[3] Component height plus 1 mm



AT piece and main lock deadbolt backing

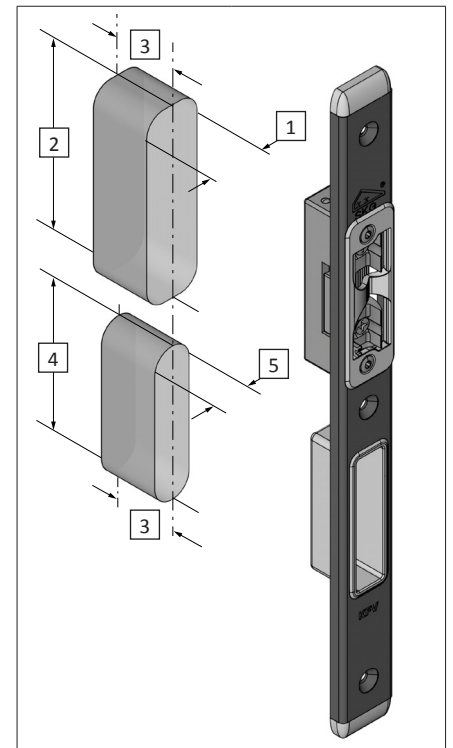
[1] 23.0 mm

[2] 72.0 mm

[3] Component height plus 1 mm

[4] 62.0 mm

[5] 16.0 mm



Day latch and main lock deadbolt backing

[1] 23.5 mm

[2] 78.0 mm

[3] Component height plus 1 mm

[4] 62.0 mm

[5] 16.0 mm

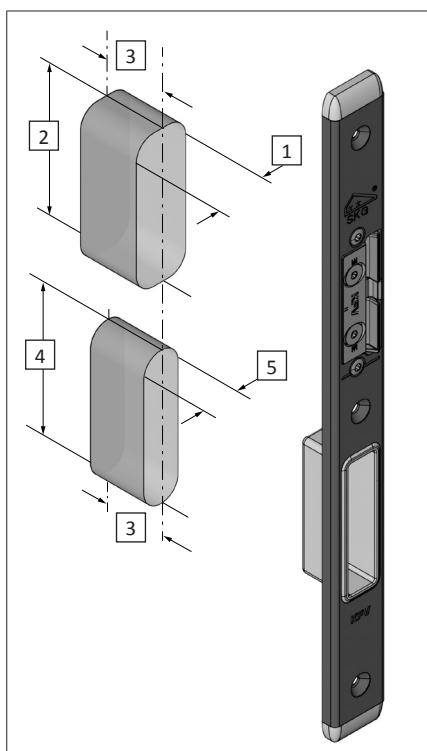
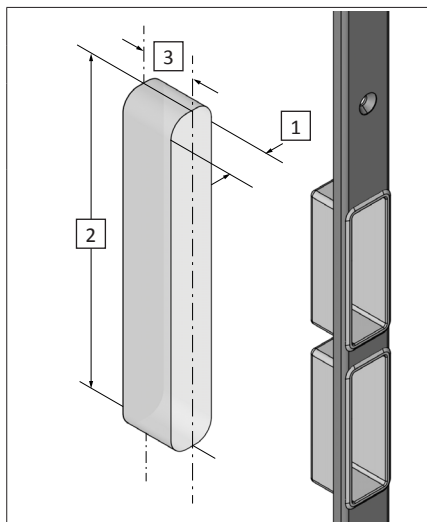
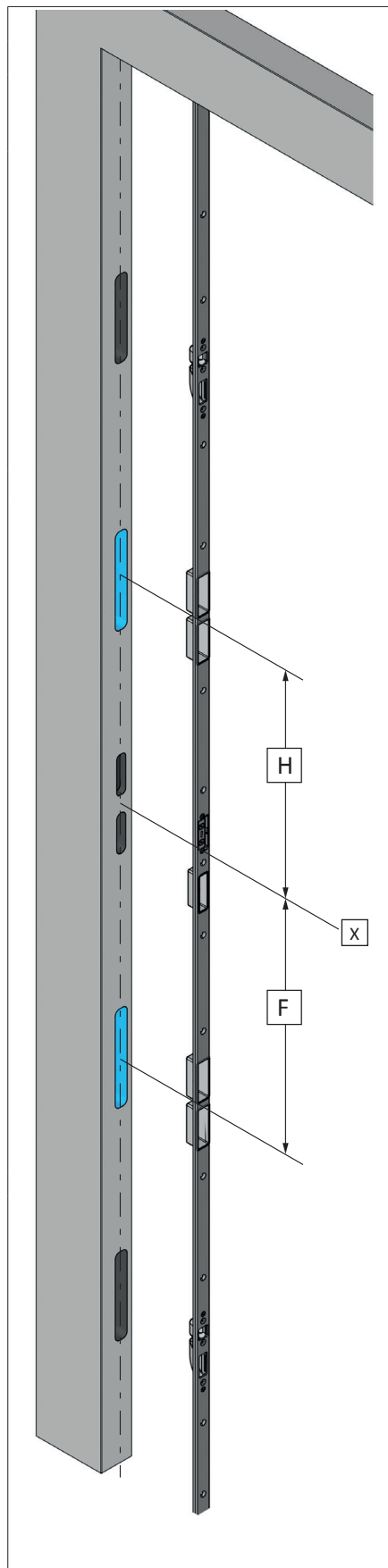
4.11.6 Frame milling for BS 2616



Determination of position, see chapter 3.1 „Size variants“ from page 10.



Always use safety goggles for milling work.



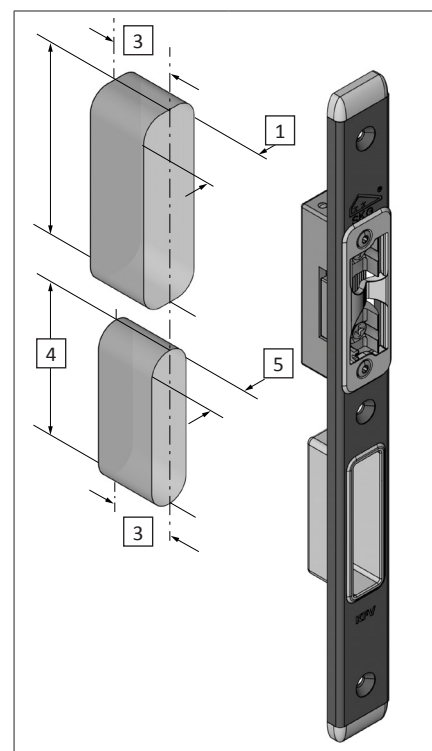
AT piece and main lock deadbolt backing

- [1] 23.0 mm
- [2] 72.0 mm
- [3] Component height plus 1 mm
- [4] 62.0 mm
- [5] 16.0 mm

The cutting dimensions given refer to:
EQH: Locking rail
Contact the KFV customer service to find out the cutting dimensions for other frame parts or locking rails.

Auxiliary box with six round bolts deadbolt backing

- [1] 22.0 mm
- [2] 150.0 mm
- [3] Component height plus 1 mm



Day latch and main lock deadbolt backing

- [1] 23.5 mm
- [2] 78.0 mm
- [3] Component height plus 1 mm
- [4] 62.0 mm
- [5] 16.0 mm

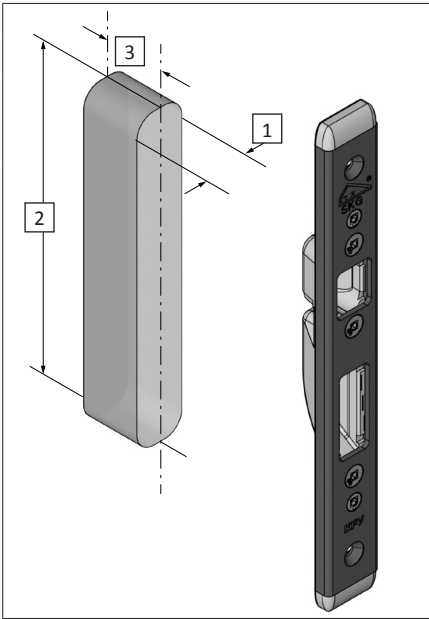
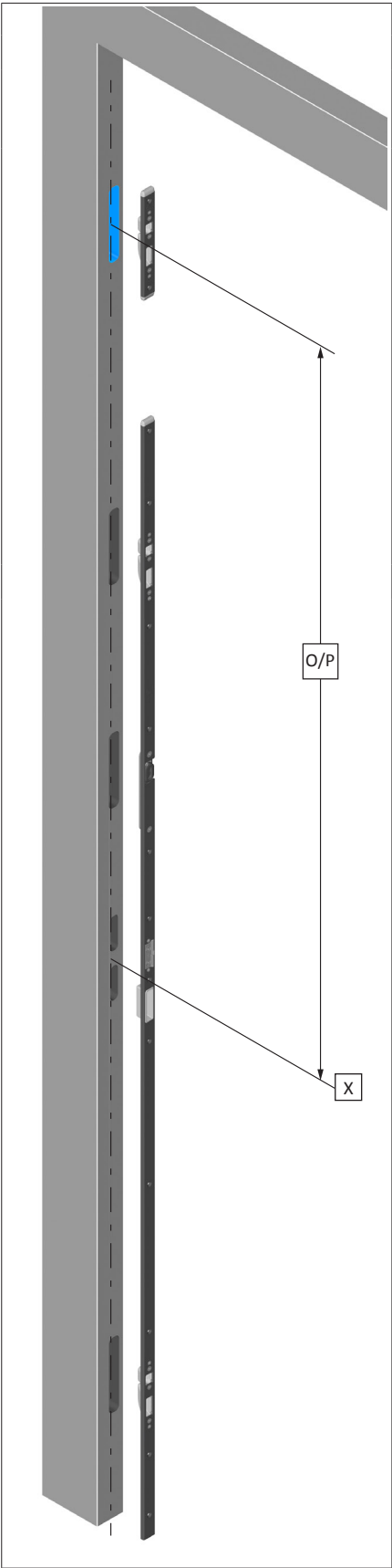
4.11.7 Frame milling for extension pieces BV 13/15/1600-1 / BV 13/15/1600-2



Determination of position, see chapter 4.8 „Extension pieces“ from page 28.



Always use safety goggles for milling work.



The cutting dimensions given refer to:
Q striker plate: Auxiliary box
Contact the KFV customer service to find out the cutting dimensions for other frame parts or locking rails.

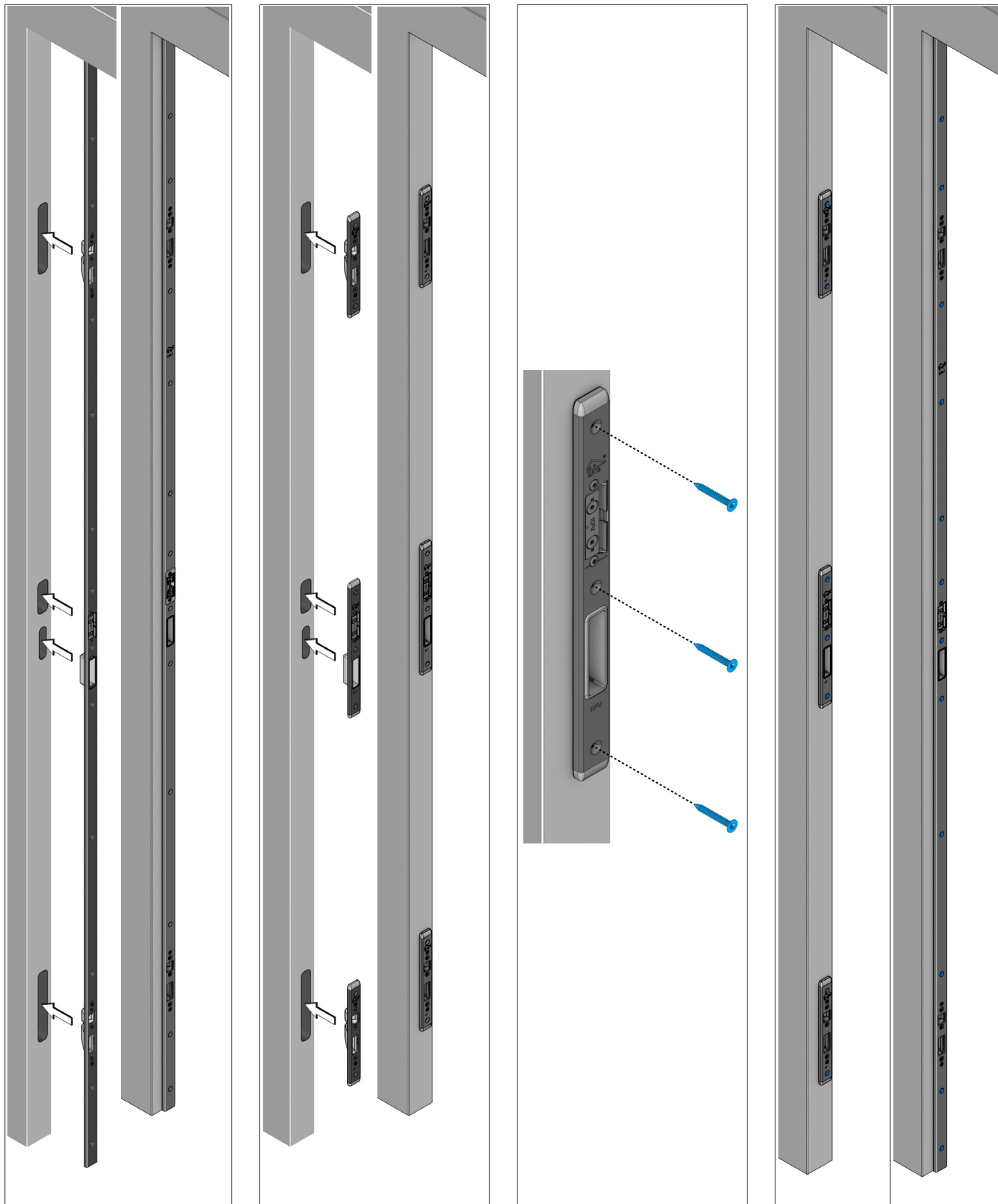
- Q adjustment of the auxiliary box**
- [1] 21.0 mm
 - [2] 135.0 mm
 - [3] Component height plus 1 mm

4.11.8 Assembling the frame parts



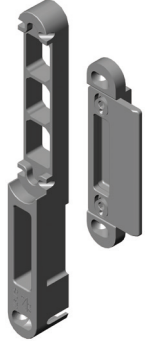
Horizontal adjustment of the frame parts is performed in accordance with the system axis

- ▶ Insert the locking rail or the striker plates into the routed pockets of the frame.
- ▶ Fix the locking rail or the striker plates using all screws provided.



4.12 Screwing specifications for SKG certified frame parts

4.12.1 Timber frames

Frame part for main lock 881-083 + 402-00031 C/D	RC2	RC3
	3 pce. 4.0x40 mm	3 pce. 4.5x45 mm (SKH certified)

Frame part for auxiliary box with hook bolt 2500-267-2W	RC2	RC3
	3 piece 4.0x40 mm	3 piece 4.5x45 mm (SKH certified)

Frame part for auxiliary box with round bolt/hook bolt combination 2600-267-2W	RC2	RC3
	3 piece 4.0x40 mm	3 piece 4.5x45 mm (SKH certified)

4.12.2 Aluminium frames

Frame parts with SKG stamp	RC2	
	$\varnothing \geq 4.8 \text{ mm}$	

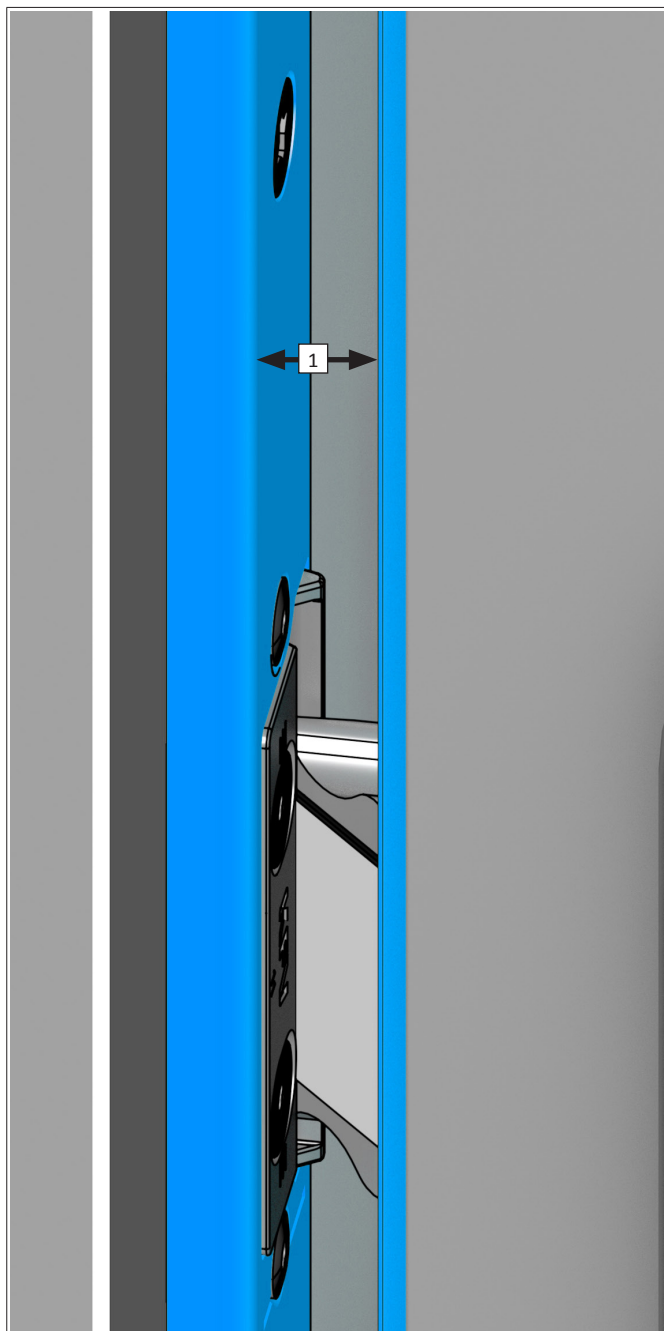
4.12.3 PVC frames

Frame parts with SKG stamp	RC2	
	$\varnothing \geq 4.2 \text{ mm}$	

4.13 Adjustment of airgap



Observe the assembly and operating instructions for the door hinges.



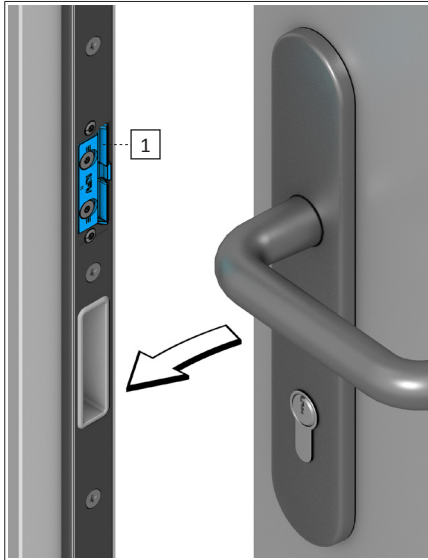
- In accordance with the enclosed assembly instructions of the door hinge manufacturer, adjust the airgap [1] between the faceplate and frame part.



An airgap of $3.5 \text{ mm} \pm 1.5 \text{ mm}$ must be adhered to in order to permit the KFV multi-point locks to function properly.

4.13.1 Adjustment of AT piece

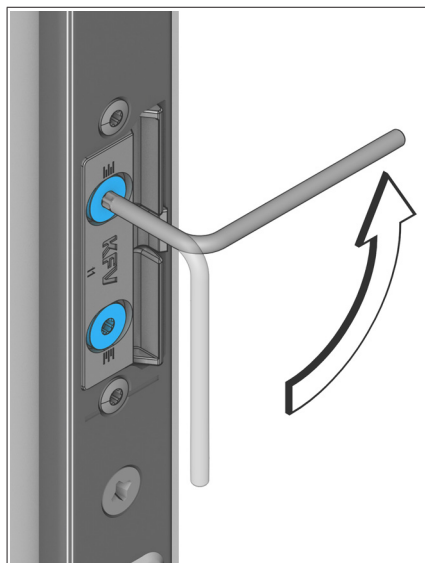
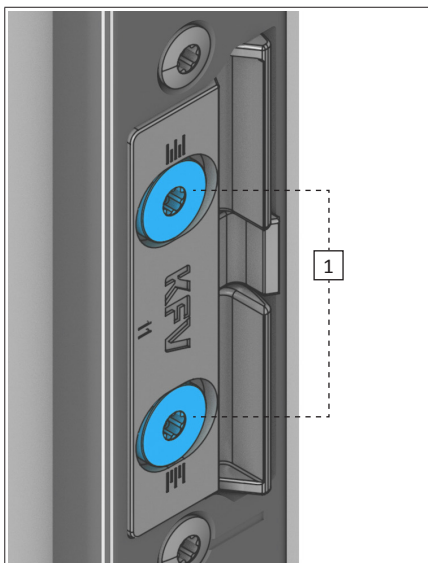
When the door is closed, the latch must engage in the AT piece with as little play as possible. The AT piece is horizontally adjustable for this purpose.



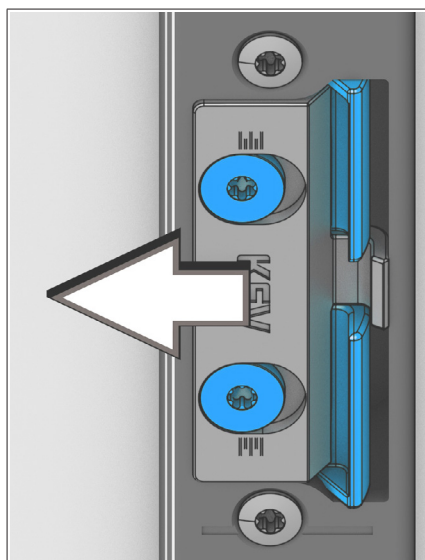
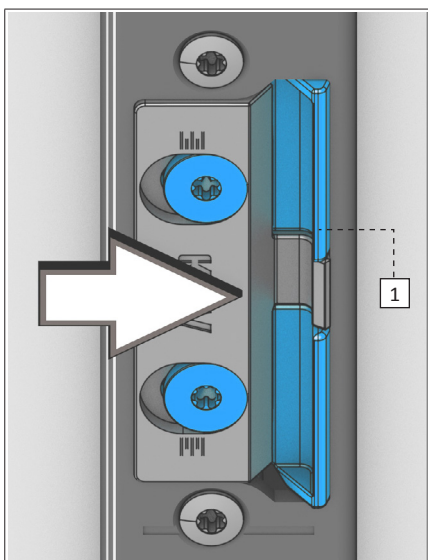
► Shut the door.

The latch must engage in the AT piece [1] and the door must remain locked.

- If the latch does not engage, or if the pressure on the door seal is too high, the AT piece must be adjusted in the direction of the door leaf.
- The AT piece must be adjusted in the direction of the frame if the latch has too much play.

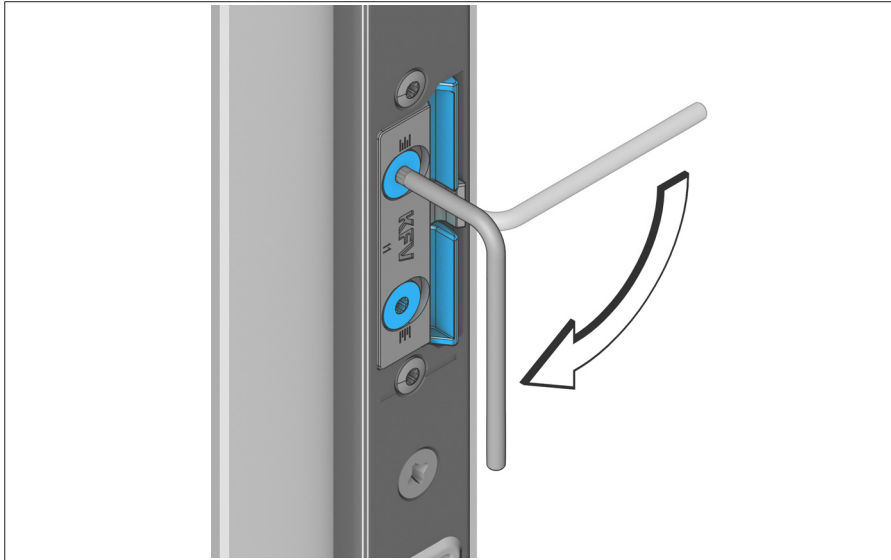


► Loosen the two adjustment screws [1] .



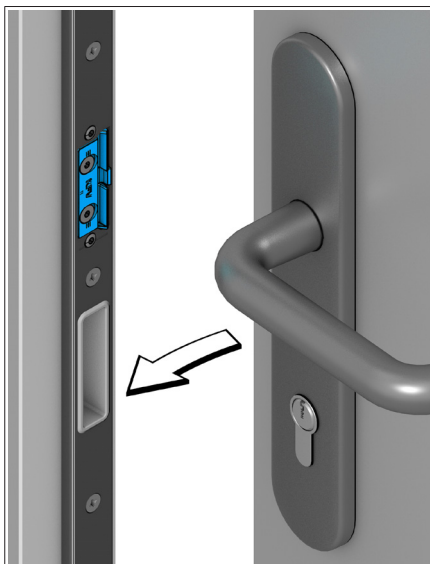
► Slide the fitting part [1]

- The pressure will decrease in the direction of the door leaf.
- The pressure will increase in the direction of the frame.



T10
2.5 Nm

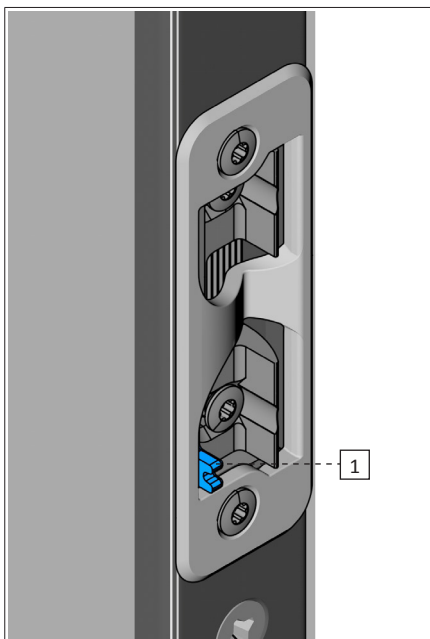
- Tighten the two adjustment screws.



- Close the door and check whether the latch engages properly.

Repeat the adjustments if necessary.

Day latch



T 10

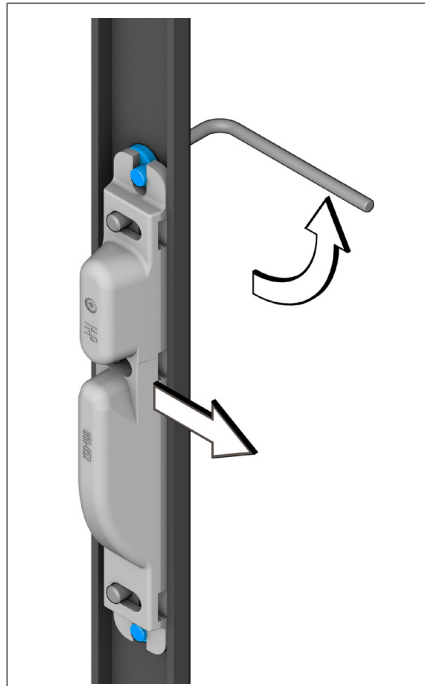
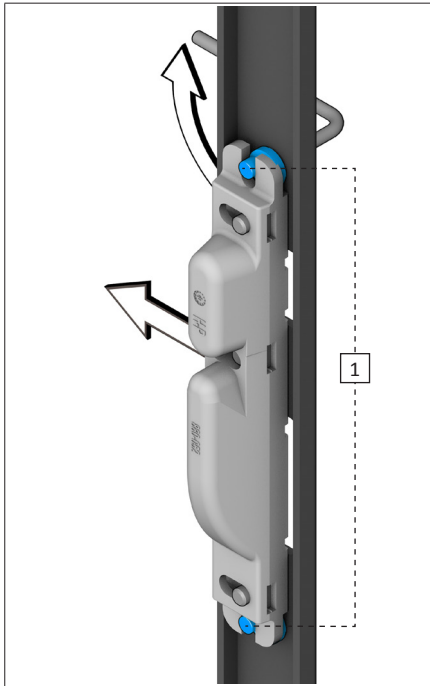
The day latch differs from the AT piece by means of a sliding handle [1], releasable fitting part.

- The door can be opened from the outside without a key when the fitting part is released .

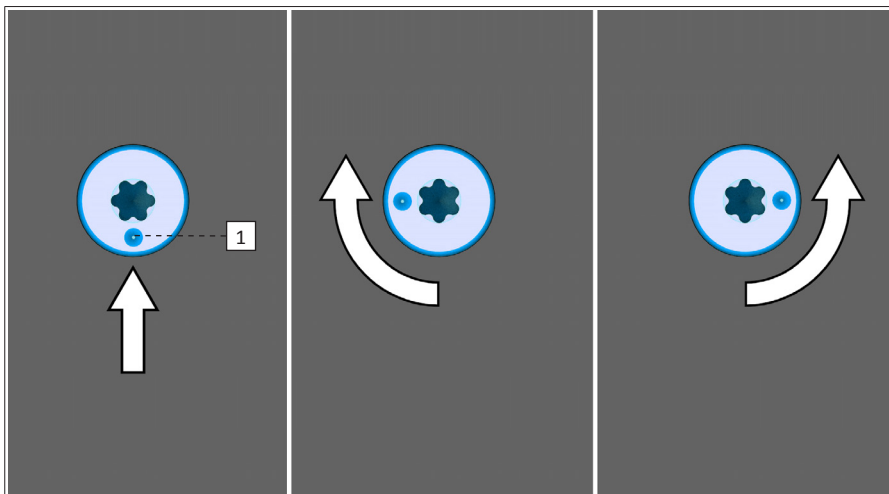
The horizontal adjustment of the fitting part is the same as with the AT piece.

4.13.2 Correct the Q adjustment

The Q adjustment is moved laterally by ± 2.5 mm via two eccentric screws [1]; this lateral adjustment changes the contact pressure of the door on the frame seal.



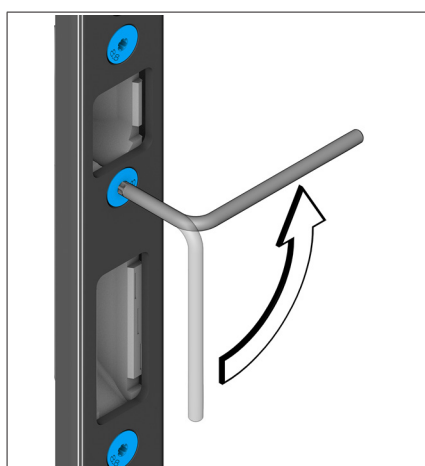
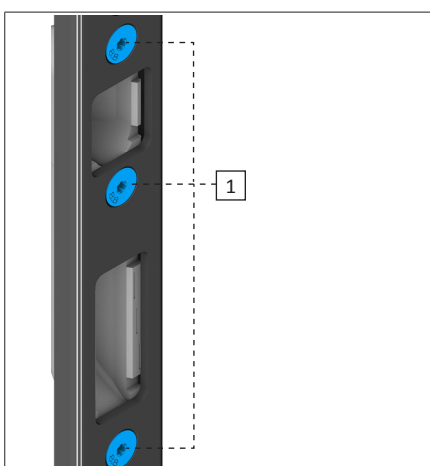
- If the contact pressure of the door on the frame seal is too low, the Q adjustment must be moved in the direction of the frame seal.
- If the contact pressure of the door on the frame seal is too high, the Q adjustment must be moved in the direction of the door leaf.



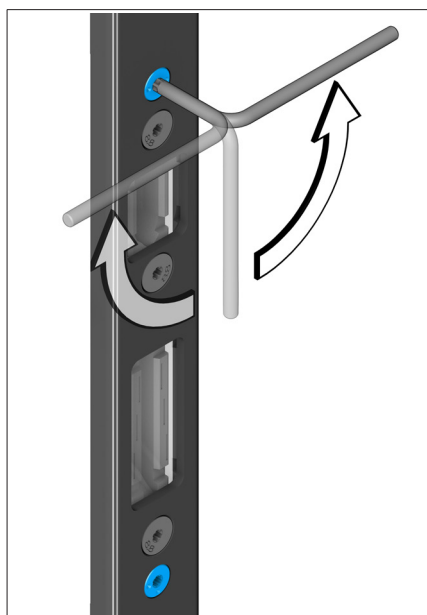
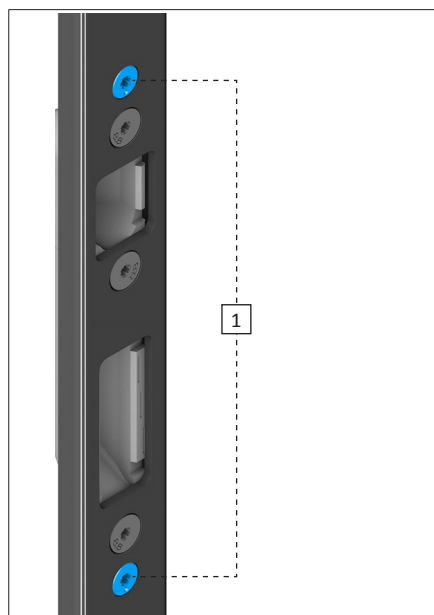
There is a marking [1] on the eccentric screw

The default setting of the Q adjustment is in neutral position. The marking points downwards.

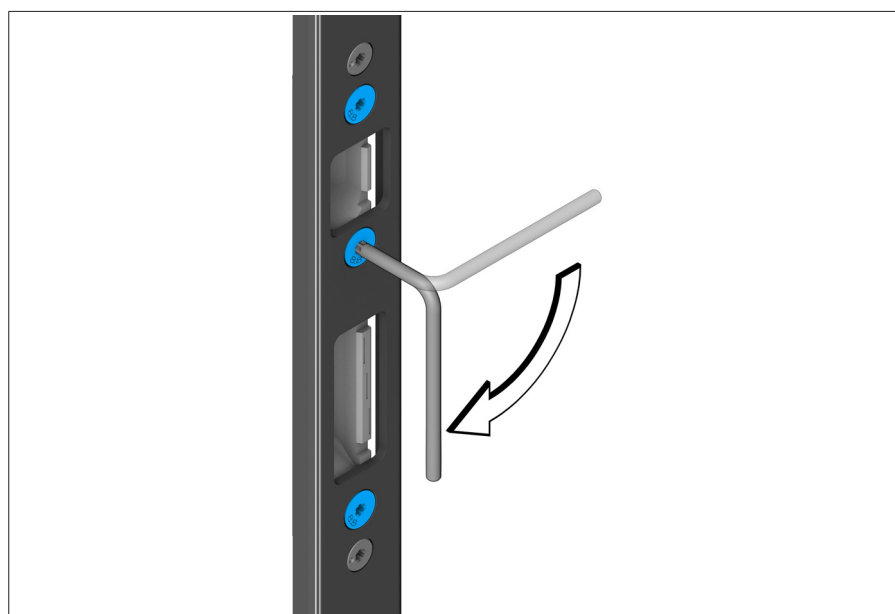
The max. travel range of the Q adjustment is reached when the marking is in a 90° position.



- Loosen the three fixing screws [1] of the Q adjustment.

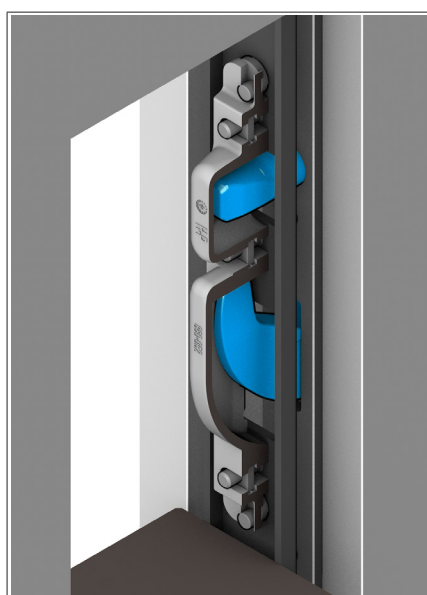
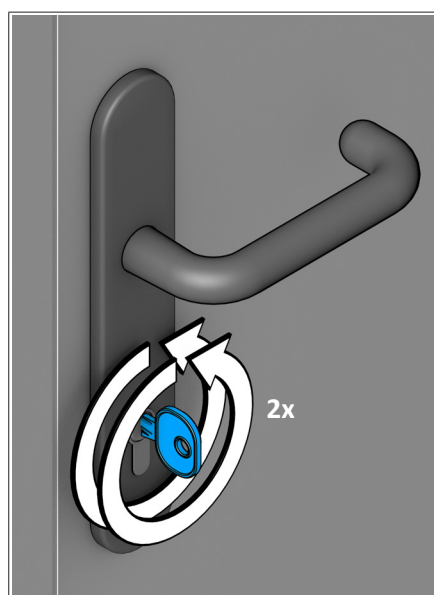


- Turn the two eccentric screws [1] to the left or right up to 90°.



	T 10 1.3 Nm
--	----------------

- Tighten the three fixing screws of the Q adjustment firmly.

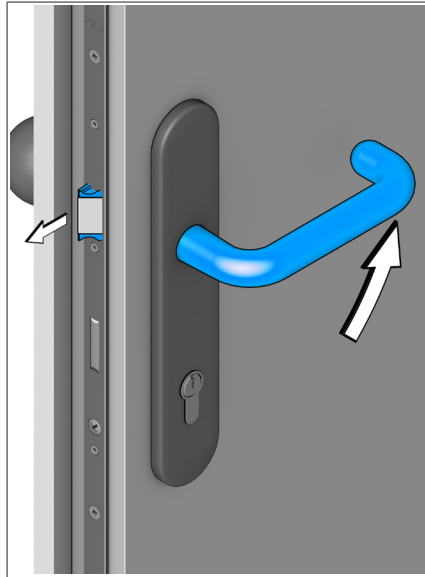
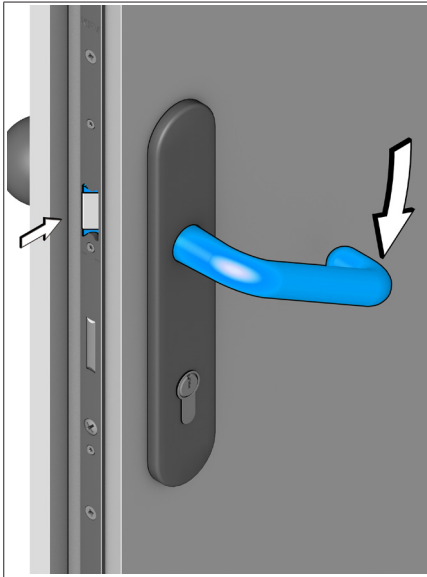


- Close the door and lock with a double turn.

Run the conical locking elements into the Q adjustment and laterally press the door against the seal.

5 Functional test

5.1 Check when the door is open



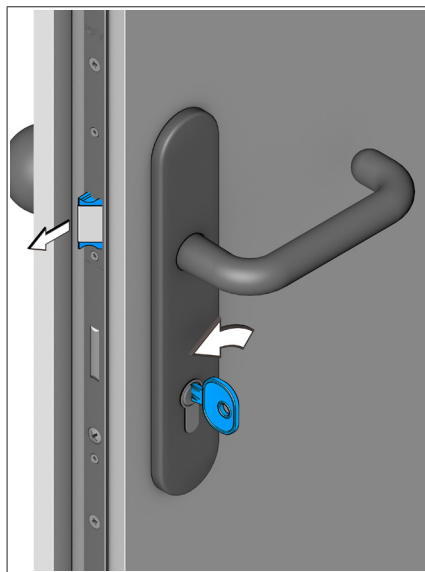
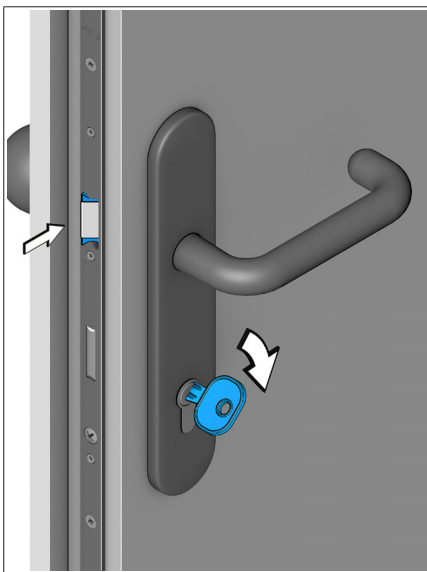
Check the functioning of the lever handle and the latch

- Press the lever handle down fully.

Check the function of the lever handle and the latch.

- Let go of the lever handle.

The lever handle must return to its original position by itself and the latch must project completely.



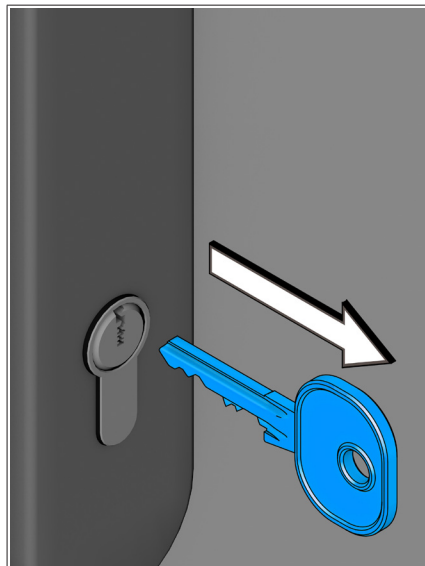
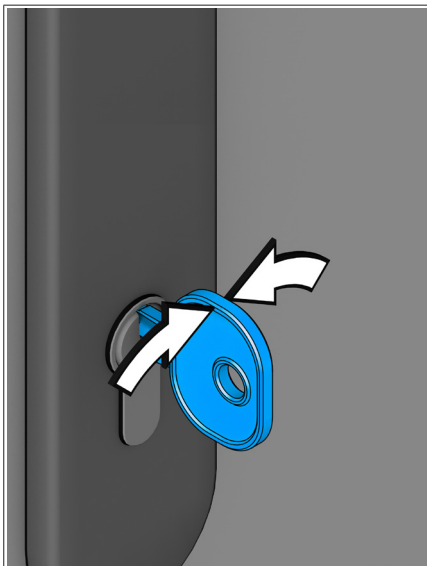
Check the functioning of the latch with the key (cylinder operated lock)

- Turn and hold the key in the release position.

The latch must retract completely.

- Let go of the key.

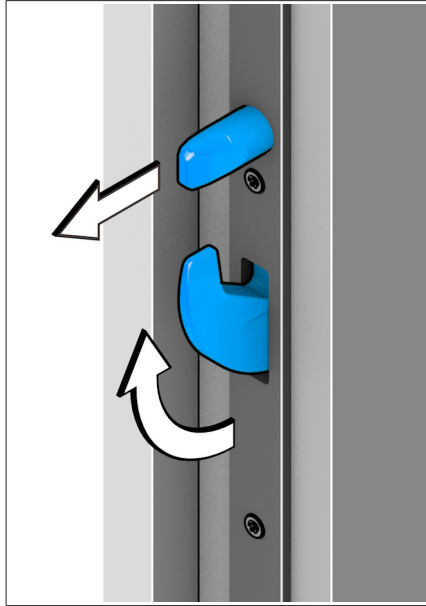
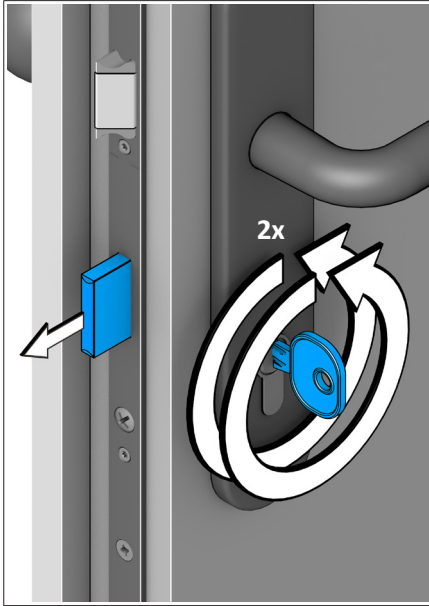
The latch must project completely.



Withdrawing the key

- Turn the key to the withdrawal position and withdraw the key.

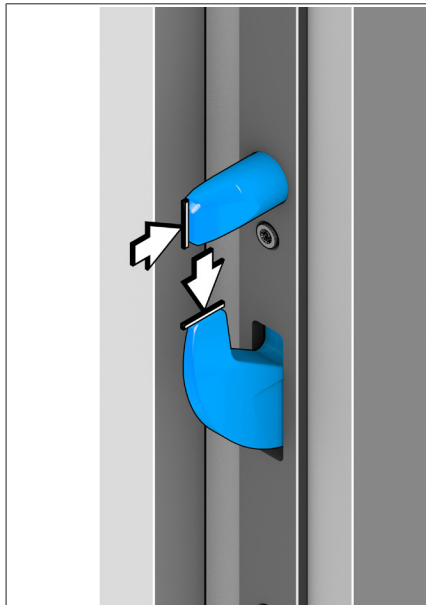
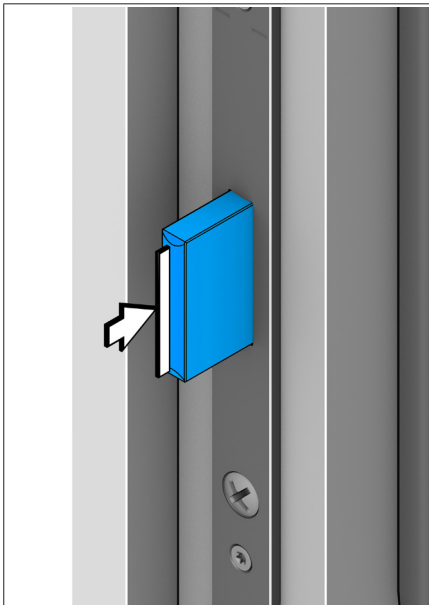
The key must be able to be withdrawn with ease from the profile cylinder.



Projecting the locking elements

- Turn the key in the locking direction with a double turn.

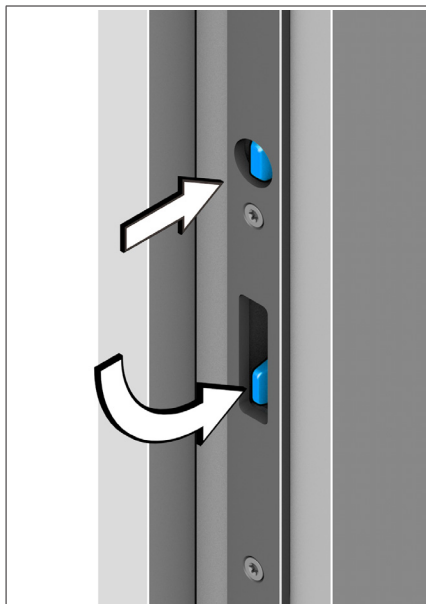
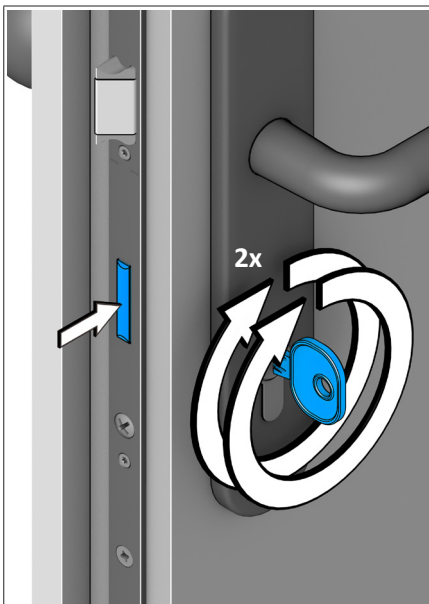
The main lock bolt and the locking elements of the auxiliary boxes must extend completely and with ease.



Checking the counter-pressure retention

- Try to press back the locking elements manually.

The locking elements must not move back in case of counter-pressure.

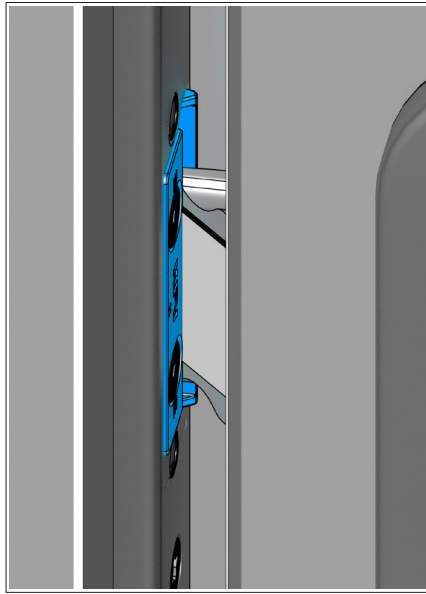


Retracting the locking elements

- Turn the key in the unlocking direction with a double turn.

The main lock bolt and the locking elements of the auxiliary boxes must retract completely and with ease.

5.2 Check when the door is closed



Checking the engaging of the latch

- Shut the door.

The door must close easily.

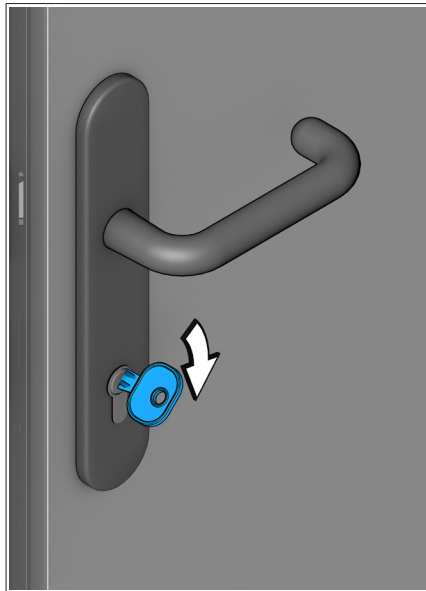
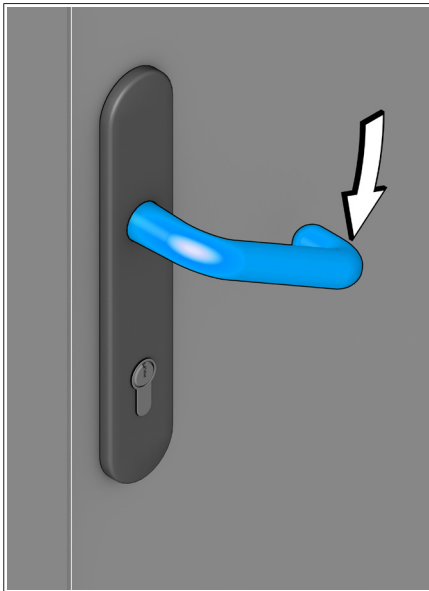
The latch must engage properly in the AT piece.

If the latch does not engage:

- Adjust the AT piece in the direction of the door leaf.

If the latch has too much play:

- Adjust the AT piece in the direction of the frame.



Check the release of the latch with the lever handle

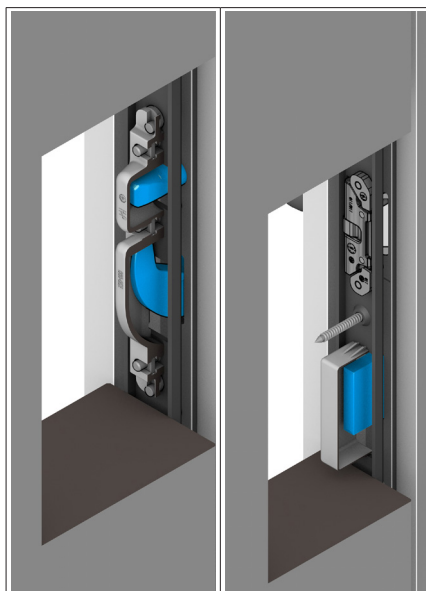
- Activate the lever handle and open the door.

The latch must retract completely and release the door.

Check the release of the latch with the key (cylinder operated lock)

- Turn the key in the release position and open the door.

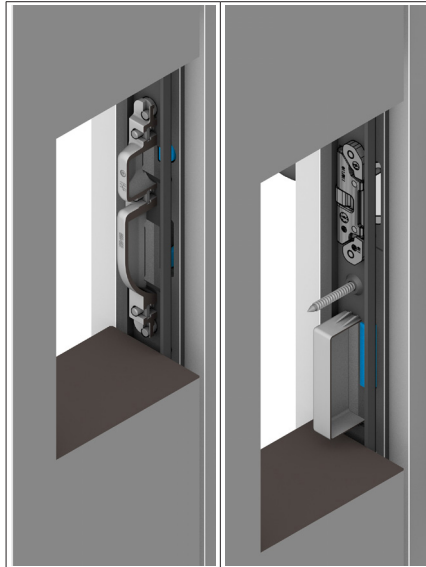
The latch must retract completely and release the door.



Check the engaging of the locking elements

- Turn the key in the locking direction with a double turn.

The locking elements must extend completely. The door leaf must be moved laterally onto the seal.



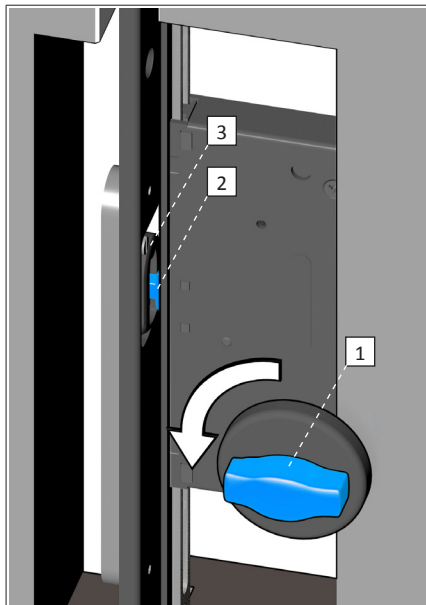
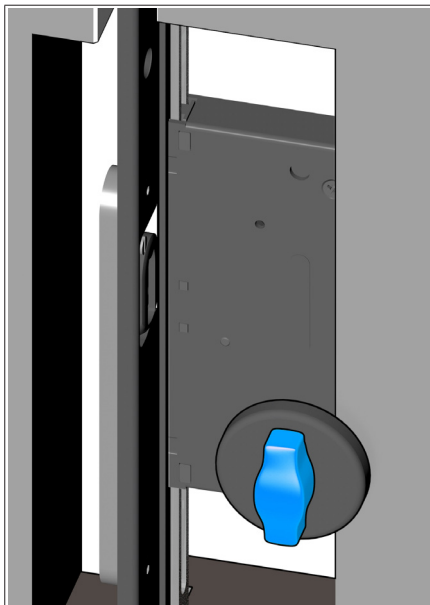
Retracting the locking elements

- Turn the key in the unlocking direction with a double turn.

The main lock bolt and the locking elements of the auxiliary boxes must retract completely and with ease.

- Open the door.
The door must open easily.

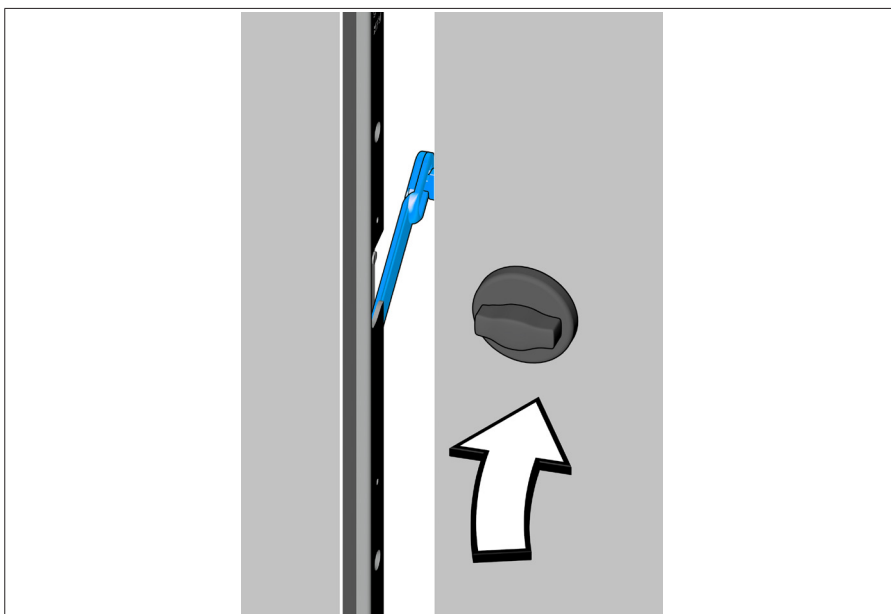
5.3 Check T2 safety lock



Check lock

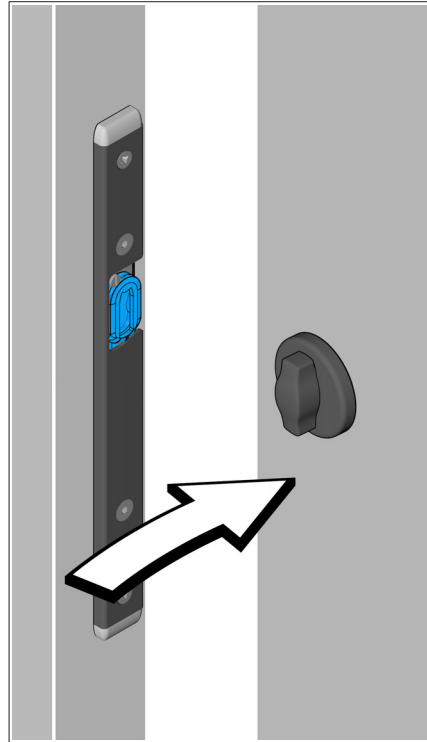
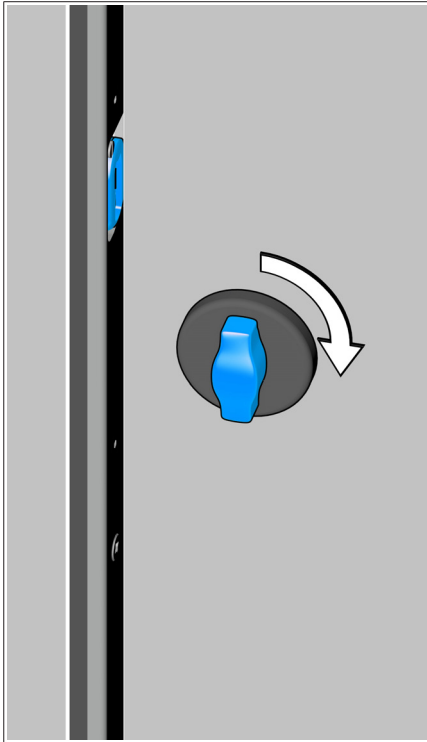
- Move the turn lock [1] into the locking position with the door closed.

The deadbolt [2] must move into the opening of the safety catch [3].



Check the function of the safety catch

- Open the door.
The safety catch must be picked up by the deadbolt and securely limit the opening gap of the door.



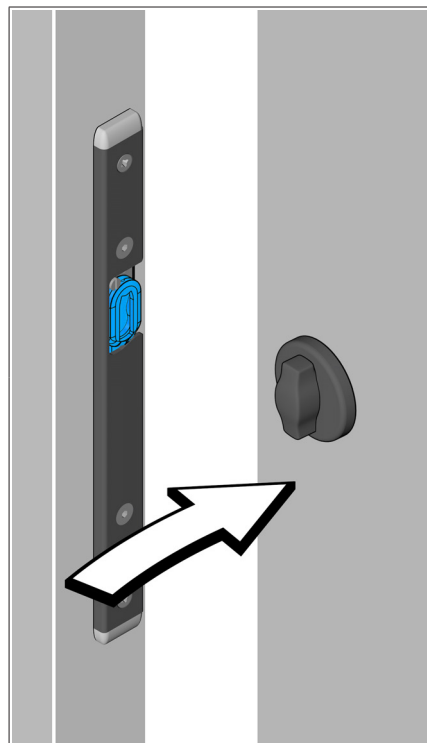
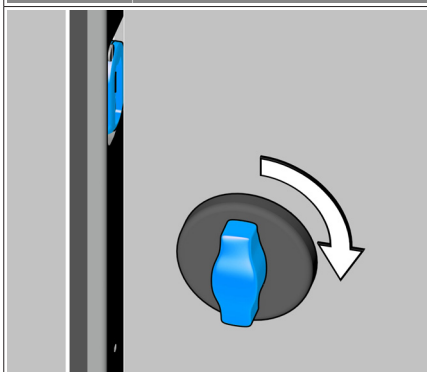
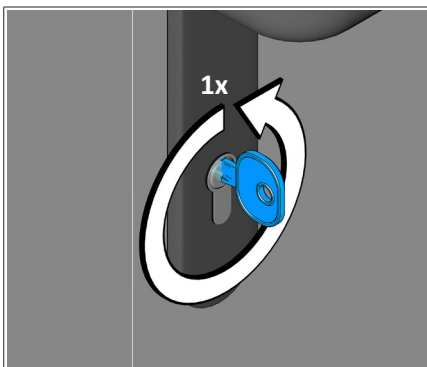
Check the release with the handle

- ▶ Shut the door.
- ▶ Move the turn lock into the release position.

The deadbolt must move with ease out of the opening of the safety catch.

- ▶ Open the door.

The safety catch must remain in position and the door must open easily and fully.



Check the release with the key

- ▶ Turn the key with a single turn out of the release position into the locking position.

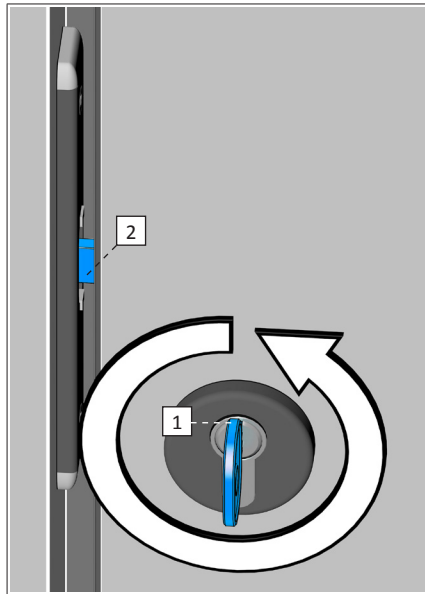
- The turn lock must turn independently to the locking position.
- The deadbolt must move with ease out of the opening of the safety catch.

- ▶ Turn the key once from the locked position into the release position.

- ▶ Open the door.

The safety catch remains in position and the door can be completely opened.

5.4 Check additional deadbolt lock TR

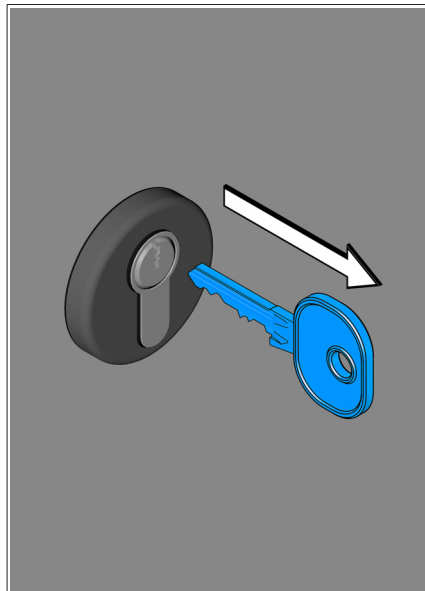
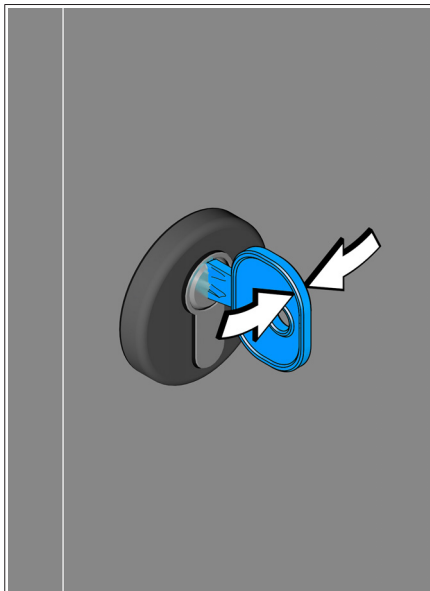


- Close the door and turn the key [1] of the additional deadbolt lock with a single turn in the locking direction.

The deadbolt [2] must run freely into the striker plate.

- Activate the lever handle or turn the key of the main lock to the release position.

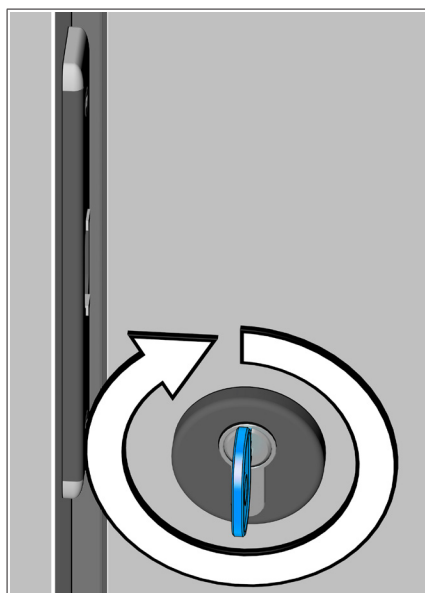
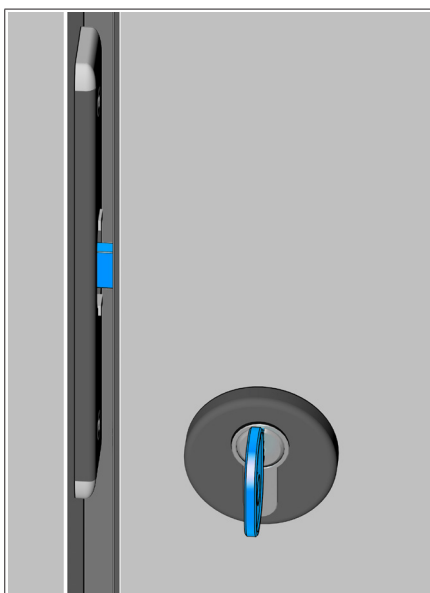
It must be impossible to open the door.



Check the withdrawal of the key

- Turn the key of the additional deadbolt lock to the release position and withdraw the key.

The key must be able to be withdrawn with ease from the cylinder lock.



Check release

- Turn the key once in the release direction.

The latch must be able to retract completely and with ease.

- Activate the lever handle or turn the key to the release position.

The door must open easily.

6 Troubleshooting

6.1 Functional disorder of the lever handle

The lever handle does not return to its original position by itself.

- ▶ Check that the lever handle is correctly seated.
- The lever handle must not have any contact with the rose or the plate or the gear box.
- ▶ Check the tightening torque of the screwing of the handle set.
- If the screwing is too tight, the routed pocket could be distorted and exercise lateral pressure on the gear box, causing sluggishness.
- ▶ Check the routed pocket of the main lock for adherence to dimensions.
- If, in spite of the specified dimensions being observed, the lever handle does not return to its original position by itself, the multi-point lock must be checked by KfV.
- If the routed pocket does not comply with the specified dimensions, it must be reworked.
- ▶ Repeat the test step with the reworked routed pocket.
- If the lever handle continues to fail to return to its original position by itself, the multi-point lock must be checked by KfV.

6.2 Functional disorder of the profile cylinder

The key cannot be pulled out.

- ▶ Dismount the cylinder lock and check for functional disorders.
- The cylinder lock must be replaced if it does not function properly.
- ▶ Repeat the test step with the new cylinder lock.
- If the key still cannot be pulled out, the multi-point lock must be checked by KfV.

6.3 Sluggishness during locking and release

- ▶ Check the adjustments of the AT piece (see chapter 4.13.1 „Adjustment of AT piece“ from page 51).
- ▶ Check the adjustments of the Q adjustments (see chapter 4.13.2 „Correct the Q adjustment“ from page 53).
- Adjust the AT piece and the Q adjustment in the direction of the door leaf to reduce the lateral contact pressure.
- ▶ Repeat the test step with the readjusted AT piece and the readjusted Q adjustment.
- If this sluggishness persists, the dimensions of the routed pockets of the main lock and auxiliary box must be checked.
- When the routed pockets are compliant with the specified dimensions and the sluggishness persists, the multi-point lock must be checked by KfV.
- If the routed pockets do not comply with the specified dimensions, they must be reworked.
- ▶ Repeat the test step with the reworked routed pockets.

6.4 Functional disorder of the T2 safety lock

Sluggishness during locking and release

- ▶ Dismount the multi-point lock and lock and release the T2 safety lock in the dismantled condition.
- If this sluggishness persists, the lock with uniform dimensions must be checked by KfV.
- If the sluggishness does not persist when the lock is dismantled, the T2 safety lock is technically OK.
- ▶ Check the routed pocket of the T2 safety lock for adherence to dimensions.
- If the routed pocket does not comply with the specified dimensions, it must be reworked.
- ▶ Repeat the test step with the reworked routed pocket.

The deadbolt does not grip properly into the opening of the safety catch

- ▶ Check the airgap for adherence to dimensions (see chapter 4.13 „Adjustment of airgap“ from page 50).
- If the airgap is not compliant with the specified dimensions, it must be adjusted.
- ▶ Repeat the test step with the airgap correctly adjusted.
- If the deadbolt continues to fail to grip into the opening of the safety catch, the additional deadbolt lock TR must be checked by KFV.

6.5 Functional disorder of the additional deadbolt lock TR

Sluggishness during locking and release

- ▶ Dismount the multi-point lock and lock and release the T2 safety lock in the dismounted condition.
- If this sluggishness persists, the additional deadbolt lock must be checked by KFV.
- If the sluggishness does not persist when the lock is dismounted, the additional deadbolt lock TR is technically OK.
- ▶ Check the routed pocket of the additional deadbolt lock TR for adherence to dimensions.
- If the routed pocket does not comply with the specified dimensions, it must be reworked.
- ▶ Repeat the test step with the reworked routed pocket.

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