

OPERATING AND CARE INSTRUCTIONS

TITAN

Hardware for windows and patio doors



<https://link.si/H47TITS001>

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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 before using the product.

Retain these instructions, keep them available and pass them on to subsequent users.

1.2 Producer

SIEGENIA-AUBI KG
Industriestraße 1 – 3
57234 Wilnsdorf
Germany

You can find the addresses of our worldwide locations here: siegenia.com/company/locations

Entry in the Commercial Register:

- Registry court: Siegen District Court
- Register number: HRA 3741

1.3 Target group

This information is aimed at all persons who carry out the following activities:

- operation and maintenance of SIEGENIA products
- operation and maintenance of window elements or door elements that are equipped with SIEGENIA products

1.4 Other relevant information

Note the following applicable information prior to operation.

- "Specifications and notes for end users (VHBE)" directive from the Quality Association for Locks and Fittings (Gütegemeinschaft Schlösser und Beschläge e. V.)

guetegemeinschaft-schloss-beschlag.de/Pruefen-Zertifizieren/Richtlinien/VHBE



- TITAN maintenance instructions
<https://link.si/H49TITS001>



1.5 Figures and symbols

Figures that depend on the DIN direction refer to DIN right windows and French doors.

For DIN left windows and French doors, the figures are a reverse image.apply



Incorrect



Correct



Not like that



But like this



Locked



Unlocked



Click



Open slowly

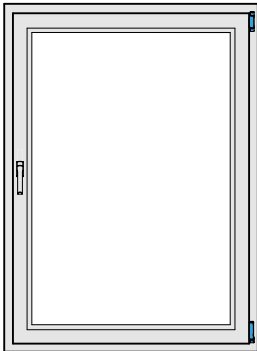
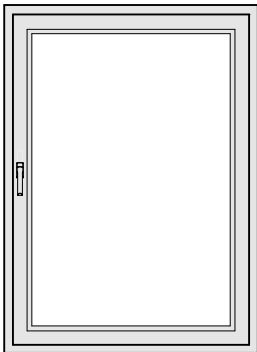
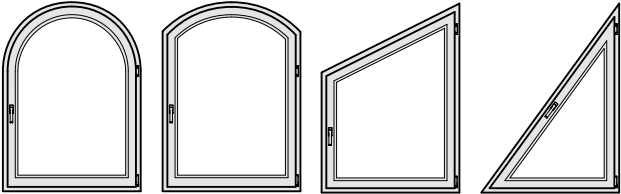
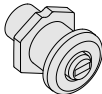


grease



oil

1.6 Explanation of terms

name	Explanation	
Surface-mounted hardware	With surface-mounted hardware, the pivot components are visible when the sash is closed.	
Concealed hardware	With concealed hardware, the pivot components are not visible when the sash is closed.	
Non-standard windows	Non-standard windows are windows or patio doors with a non-standard shape: • Round arched window • Segmental arched window • Triangular window • Pitched window	
Sash	The sash is the movable element of a window or patio door, which is mounted in the frame.	
frame	The frame is the fixed element of a window or patio door, which is mounted in the wall opening.	
Comfort mushroom cam	When the sash is closed, the comfort mushroom cam engages in the striker plate.	

2 Safety

2.1 Designated use

TITAN is a hardware system that allows windows and patio doors to open and close.

2.2 Requirements for the target group

The following persons may only operate the product if they have understood the dangers involved in handling the product or if they are supervised during operation:

- children
- persons with diminished physical, sensory or mental capabilities
- persons with a lack of experience and knowledge

2.3 Safety notes

Danger of window sash falling out due to malfunction of the window

If a window malfunctions, the window sash can fall out and cause serious injury.

- Do not continue to use the window.
- Secure the window and have it repaired by a qualified technician as soon as possible.
- Children and people who are unable to assess this hazard must be kept away from areas of danger.

Danger of window sash falling out due to improper operation

Additional weight on the window sash places excessive strain on the bearing components. Bearing components could break. The window sash could fall out and cause serious injuries.

- Do not put additional weight on the sash.

Danger of window sash falling out due to obstacles between the sash and frame

If the window sash hits an obstacle, this places excessive strain on the bearing components. Bearing components could break. The window sash could fall out and cause serious injuries.

- Do not place obstacles between the sash and the frame.

Danger of window sash falling out as a result of hitting a reveal or exceeding the specified opening angle

If the window sash hits a window reveal or exceeds the specified opening angle, this places excessive strain on the bearing components. Bearing components could break. The window sash could fall out and cause serious injuries.

- Use a sash brake.

Danger of window sash falling out when opened incorrectly

If the window sash hits a wall projection or other obstacles, or if the specified opening angle is exceeded, the sash may fall out. The sash could cause serious injuries.

- Open the sash slowly.
- When opening the sash, do not allow it to hit a stationary obstacle.
- Never let the sash swing open in an uncontrolled manner.

Danger of injury while opening or closing the window

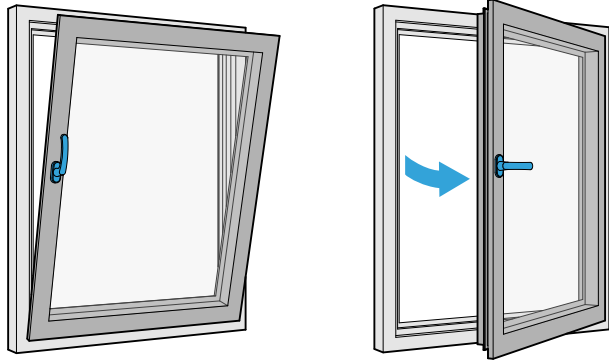
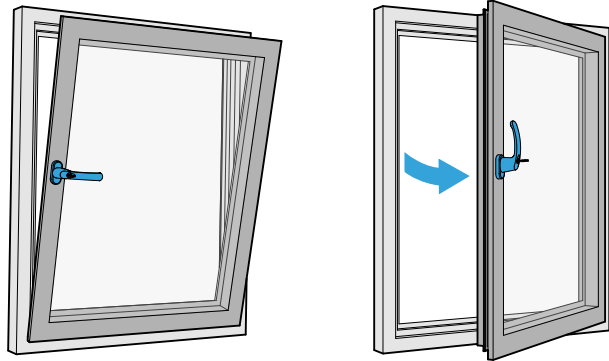
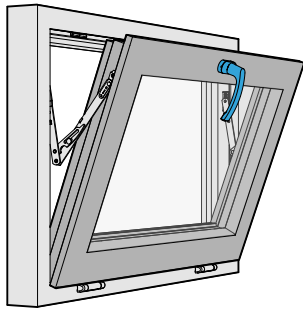
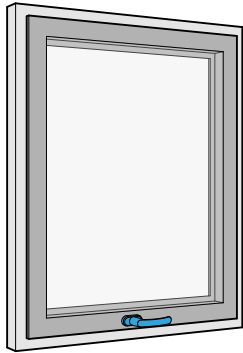
A window sash can cause serious injuries.

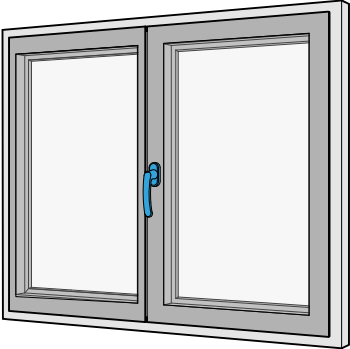
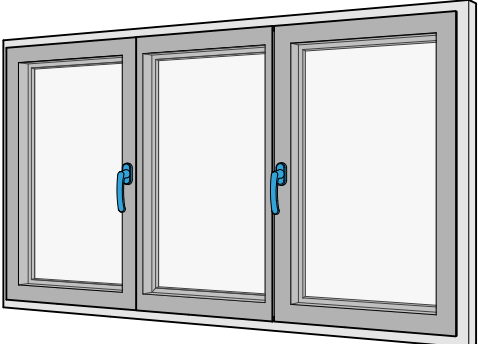
- Do not put your hand or fingers into the opening between the window sash and frame while closing the window.
- Avoid letting window sashes slam open or shut. Close and lock windows if it is windy or there is a draught.
- Children and people who are unable to assess this danger must be kept away from windows.

3 Product specifications

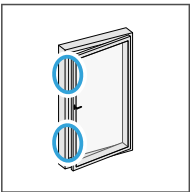
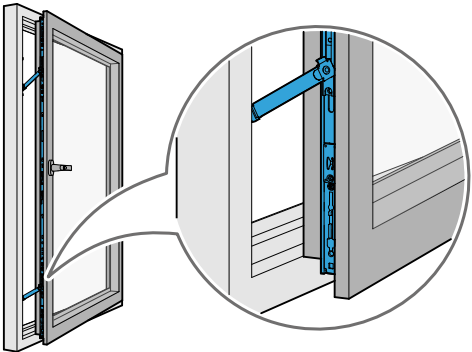
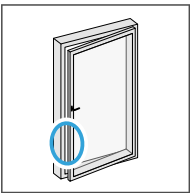
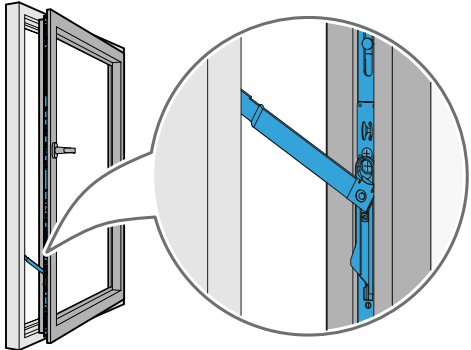
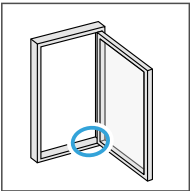
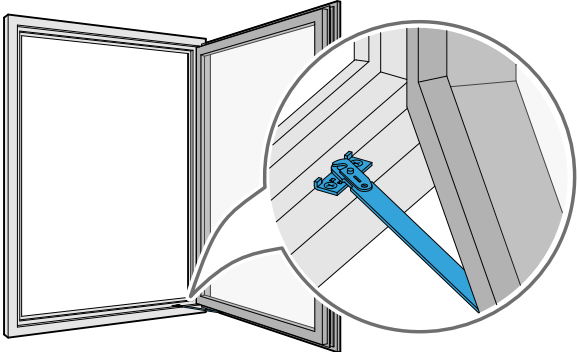
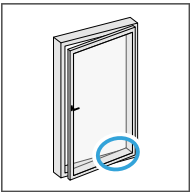
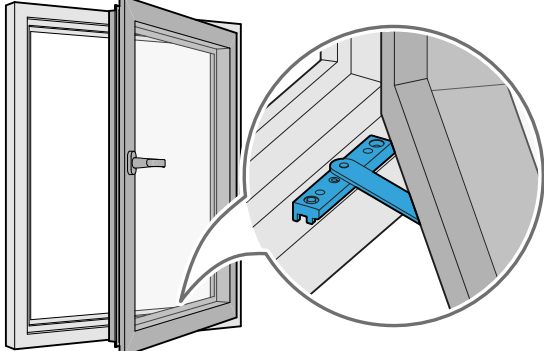
3.1 Product identification

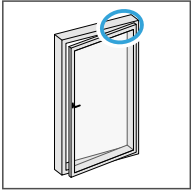
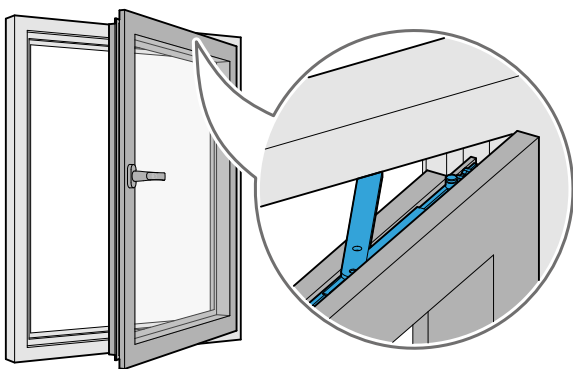
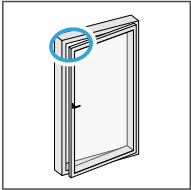
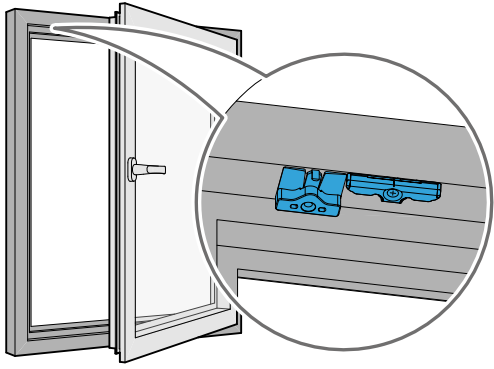
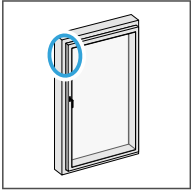
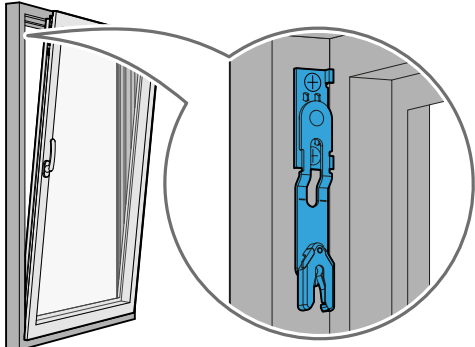
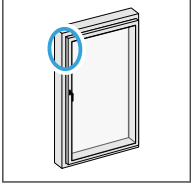
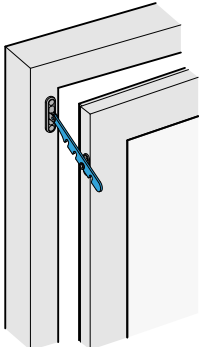
Window types

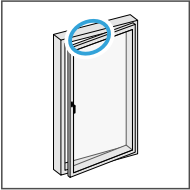
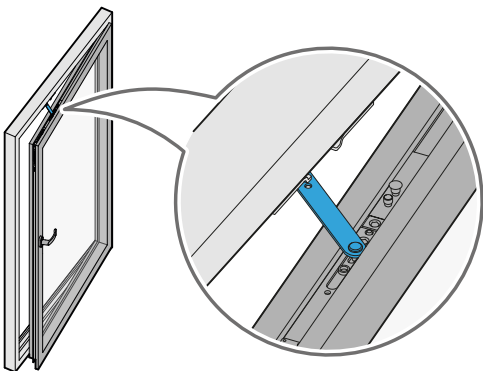
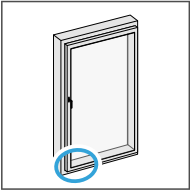
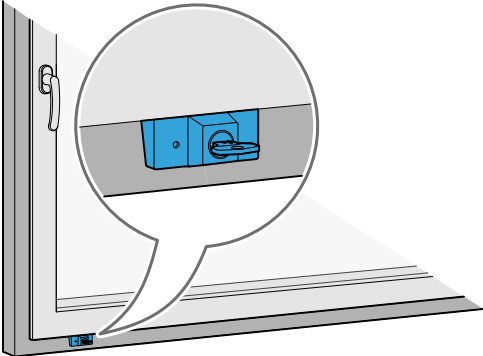
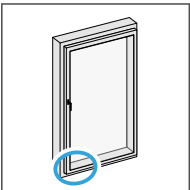
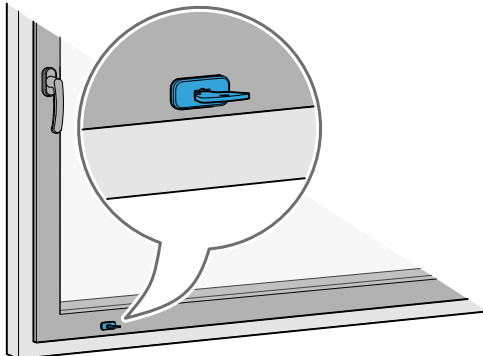
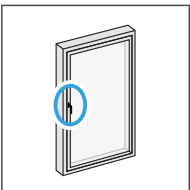
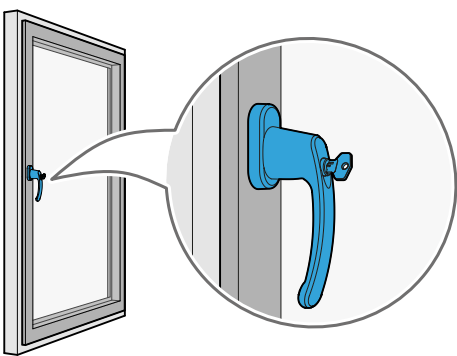
Version	Function	
Turn-and-tilt window (see page 14)	A turn-and-tilt window can be turned or tilted open depending on the position of the window handle.	
Tilt-before-turn window (see page 15)	A tilt-before-turn window can be tilted or turned open depending on the position of the window handle. It can only be opened in the turning position with the key.	
Tilt window (see page 16)	A tilt window can only be tilted.	
Comfort window (see page 20)	A comfort window can be turned or tilted open depending on the position of the window handle. The window handle is attached horizontally to the bottom of the sash. A comfort window is usually equipped with a turning lock.	

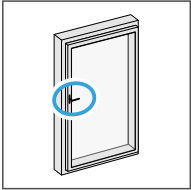
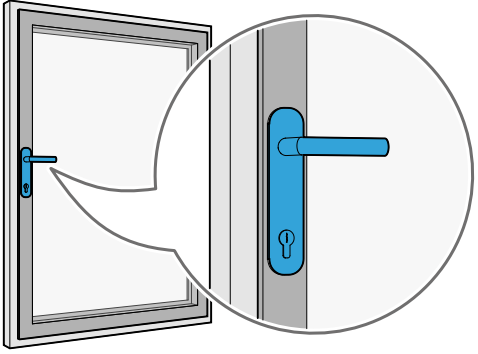
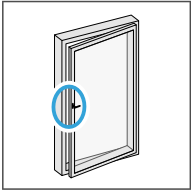
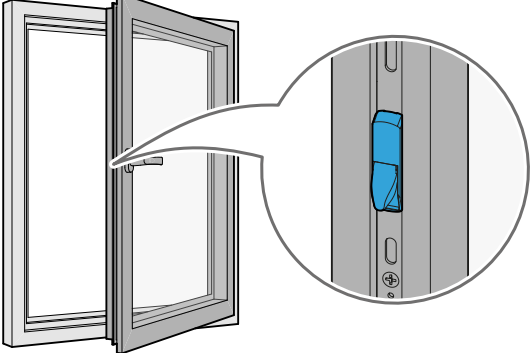
Version	Function	
Double sash window (see page 21)	A double-sash window has two sashes which can be opened one after the other.	
Triple sash window (see page 22)	A triple-sash window has three sashes which can be opened one after the other.	

Components

Version	Installation site	Components
Opening restrictor S (see page 23)		
Opening restrictor C (see page 26)		
90° opening restrictor (see page 28)		
Sash brake (see page 28)		

Version	Installation site	Components
Sash brake TR (see page 29)		
Gap ventilation night vent (see page 30)		
Energy-saving stay (see page 31)		
Cockspur fastener (see page 33)		

Version	Installation site	Components
Night vent for side-hung windows (see page 34)		
Turning lock (see page 36)		
Concealed turning lock (see page 37)		
Lockable window handle (see page 38)		

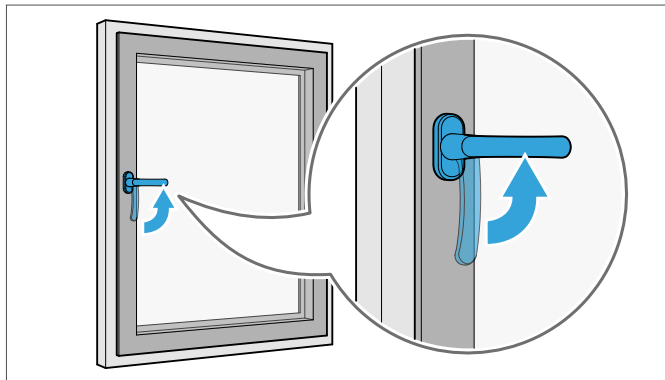
Version	Installation site	Components
Door handle (see page 40)		
Mishandling device (see page 52)		

4 Operation

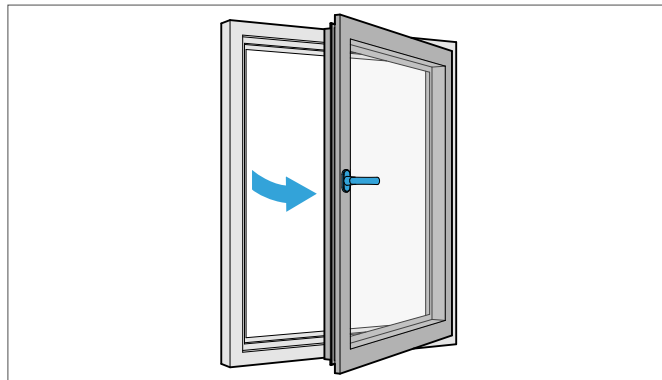
4.1 Operating a turn-and-tilt window

Opening a window in the turning position

1. Place the window handle in the turning position.

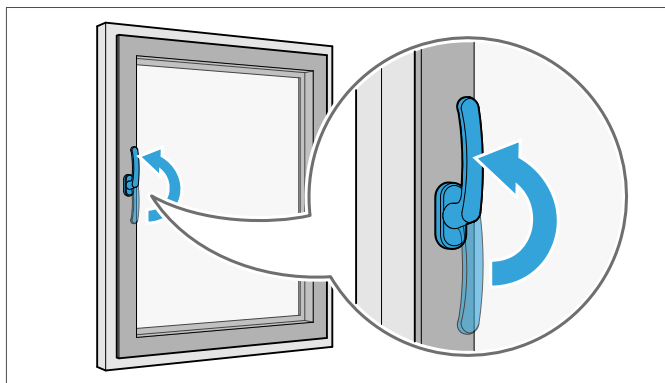


2. Open the sash.

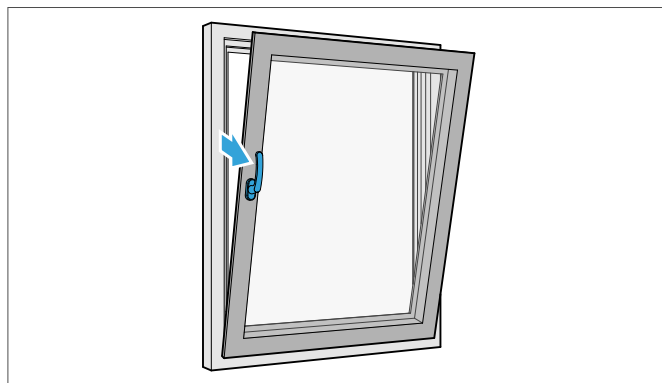


Opening a window in the tilt position

1. Place the window handle in the tilt position.



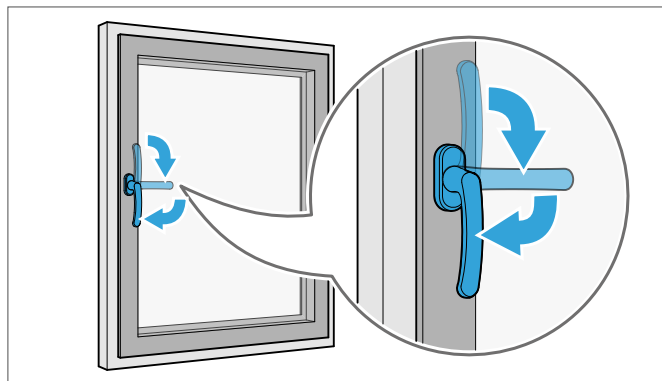
2. Tilt the sash.



Closing the window

1. Close the sash.

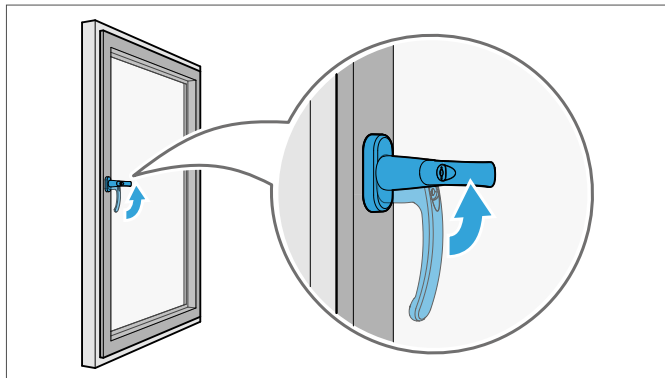
2. Place the window handle in the locking position.



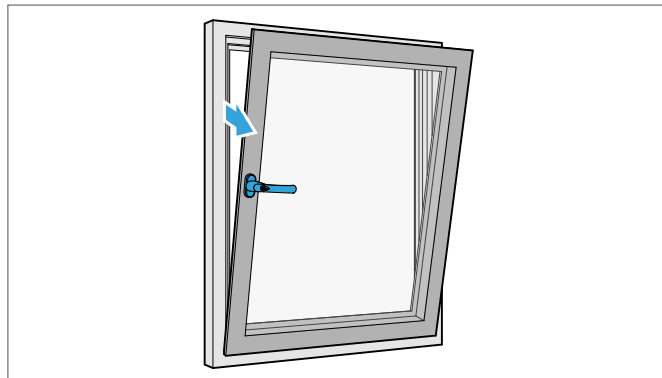
4.2 Operating a tilt-before-turn window

Opening a window in the tilt position

1. Place the window handle in the tilt position.

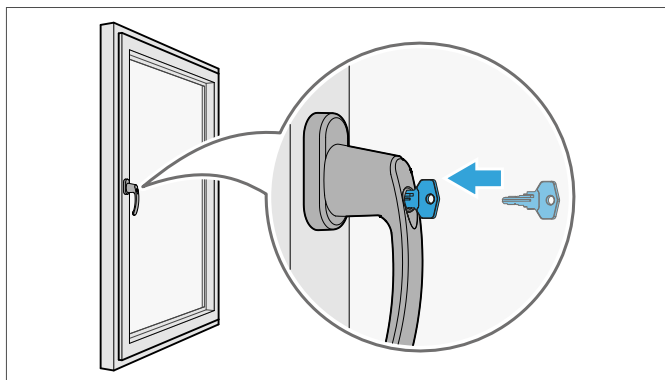


2. Tilt the sash.

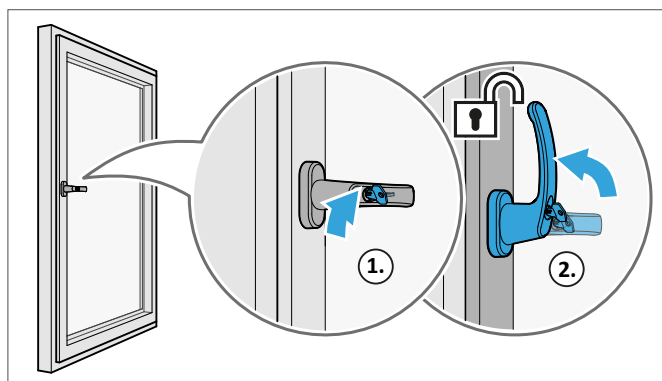


Opening a window in the turning position

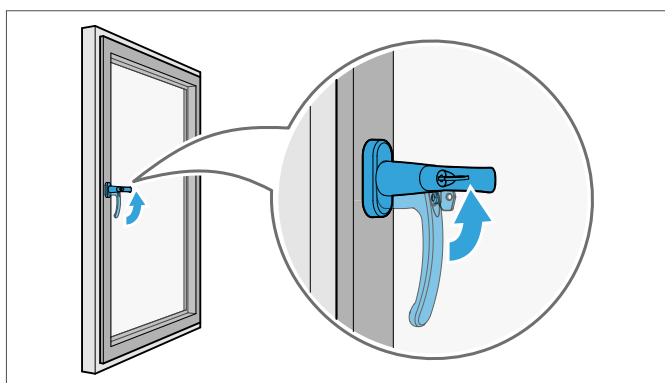
1. Insert the key.



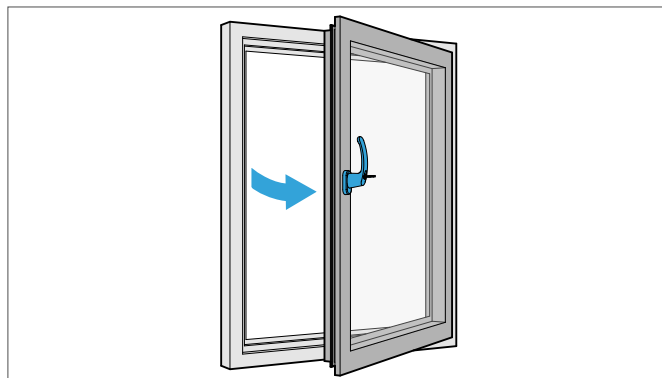
3. Turn to key to the right and hold in place. Place the window handle in the turning position.



2. Place the window handle in the tilt position.

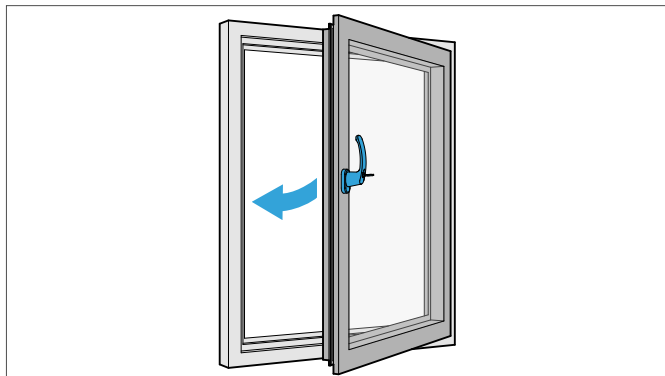


4. Open the sash in the turning position.

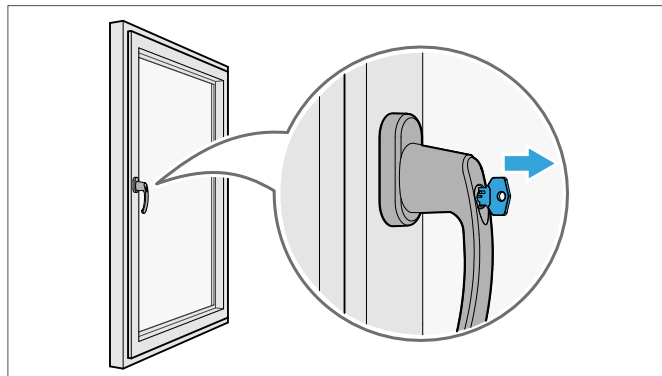


Closing the window

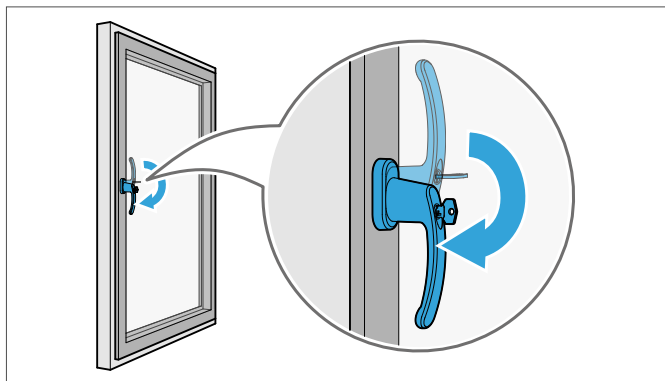
1. Close the sash.



3. Remove the key.



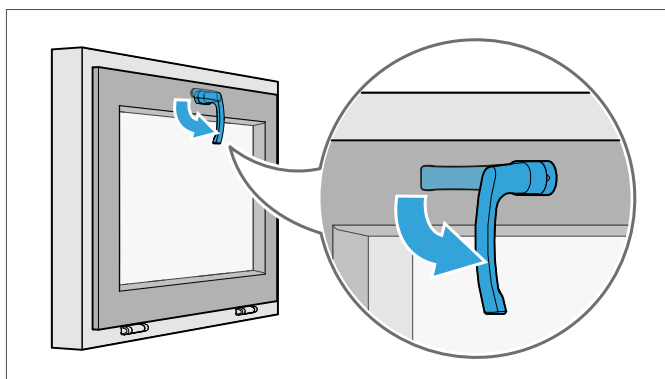
2. Place the window handle in the locking position.



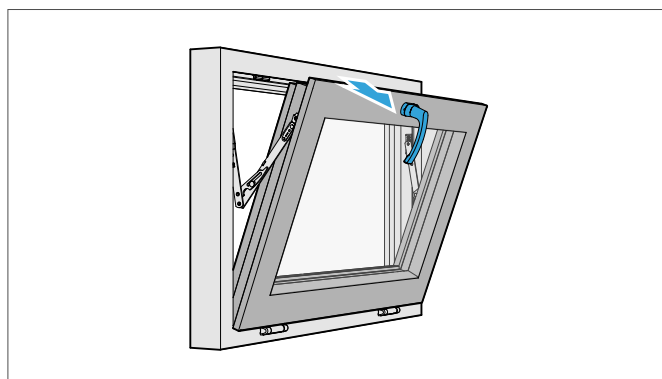
4.3 Operating a tilt window

Opening a window in the tilt position

1. Place the window handle in the 90° tilt position.

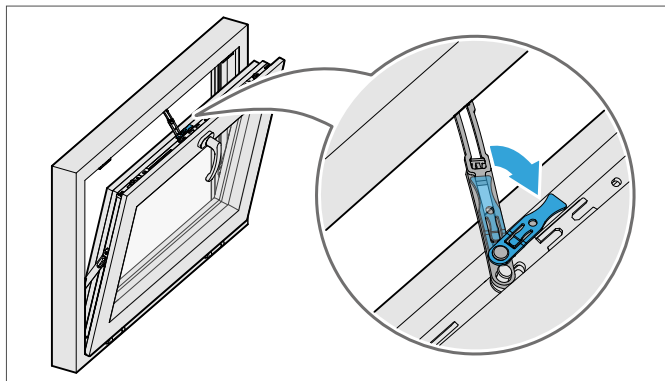


2. Tilt the sash.

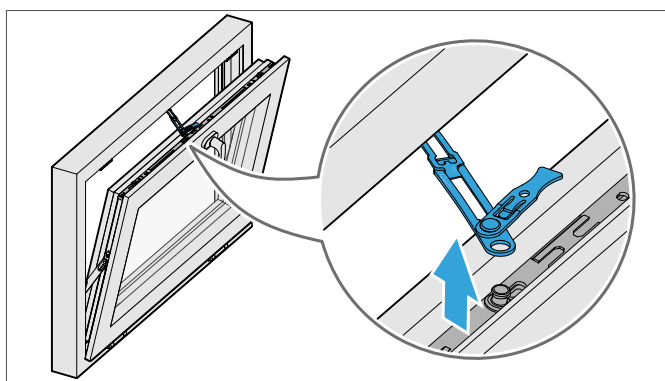


Opening a window for cleaning

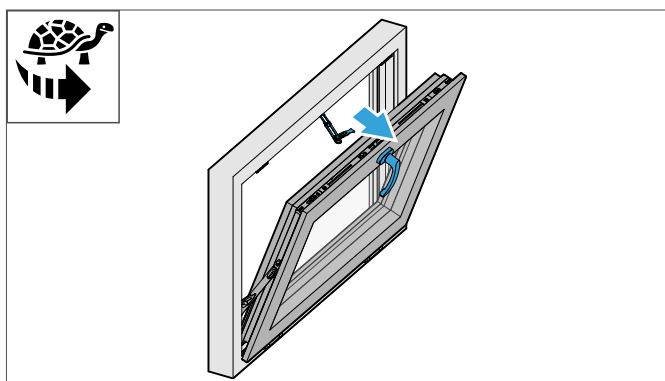
1. Flip open the catch on the 45° extension arm. Depending on the size of the window, there may be two extension arms.



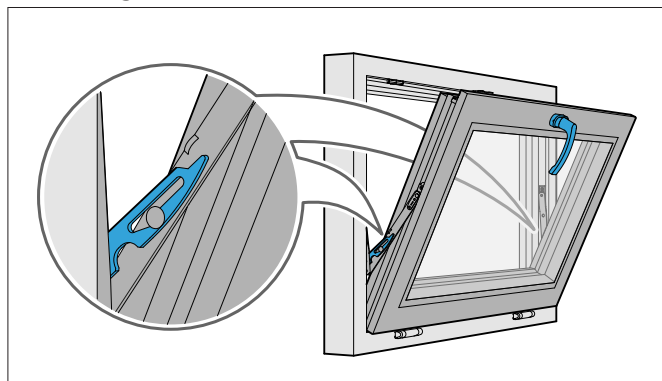
2. Lift the extension arm. While doing so, hold the sash in place to secure it.



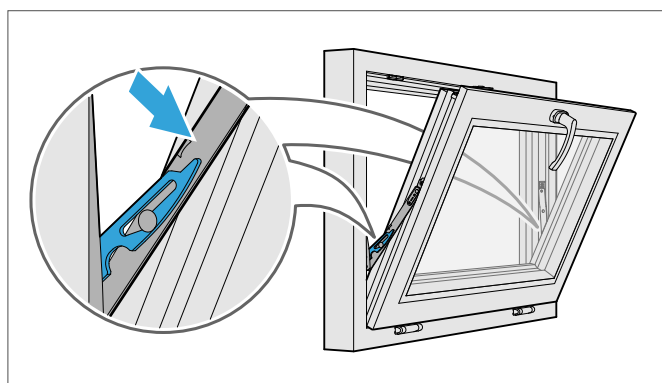
3. Slowly tilt the sash as far as it will go and hold it there.



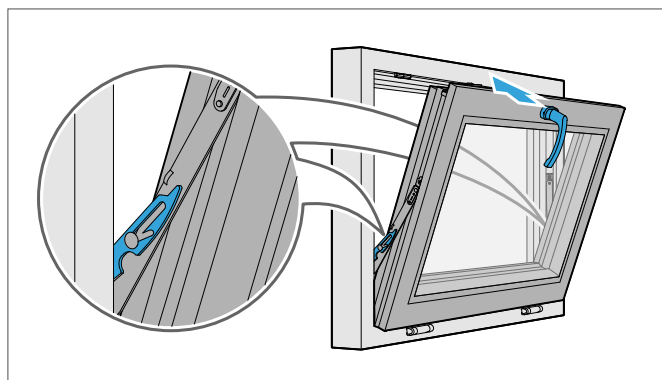
→ The tilt-only safety stay restricts the opening angle.



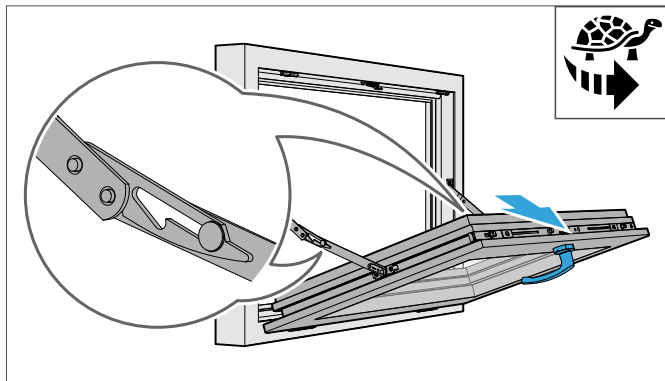
4. Push the lever arm on both tilt-only safety stays in the direction of the arrow.



5. To unlock the lever arms, push the sash closed until the bolt is at the bottom of the lever arm.

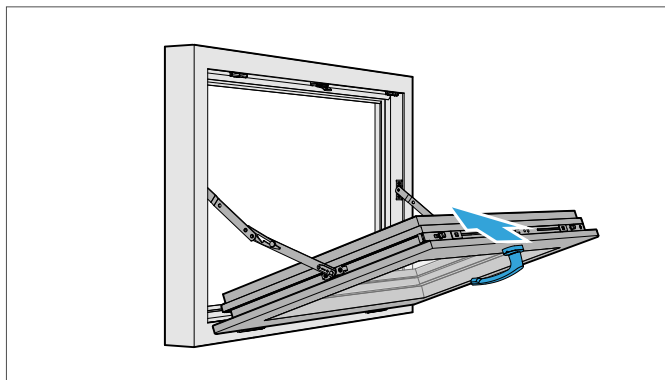


6. Slowly open the sash as far as it will go and hold it there.

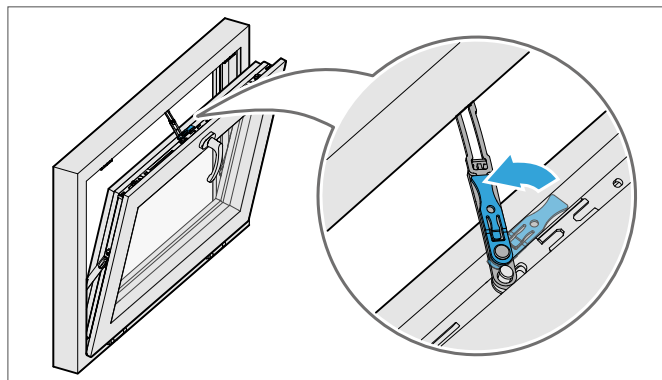


Closing the window after cleaning

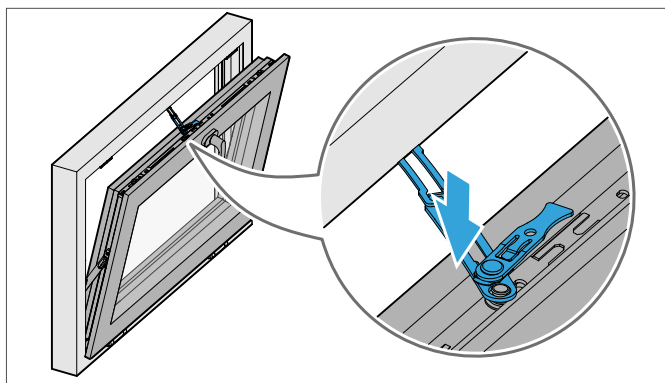
1. Push the sash closed until the tilt-only safety stays engage.



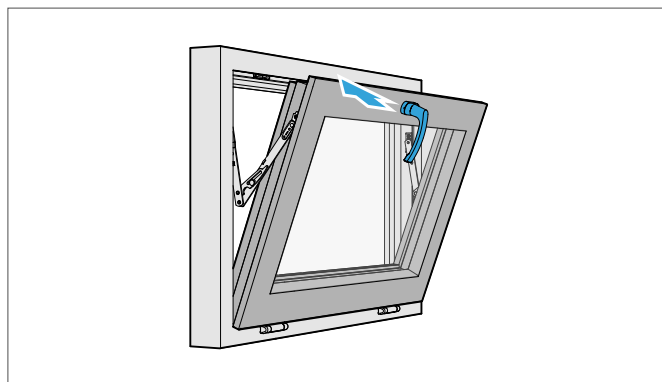
3. Swing the catch back into place on the extension arm.



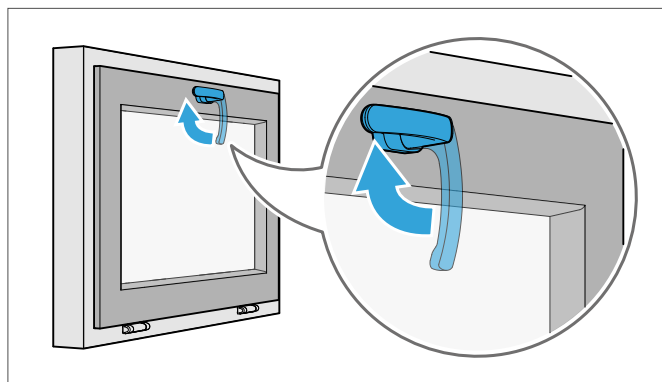
2. Push the sash further closed. Hook the extension arm into place.



4. Close the sash.



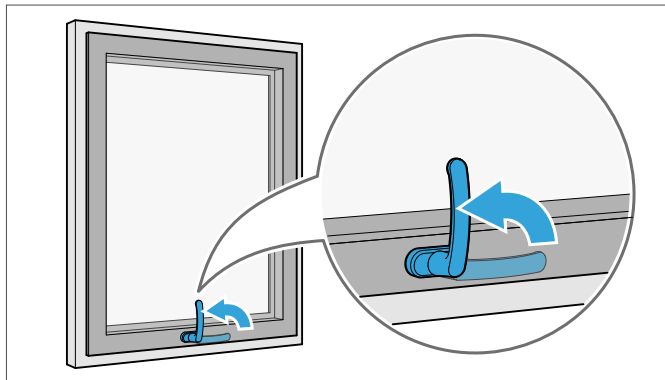
5. Place the window handle in the locking position.



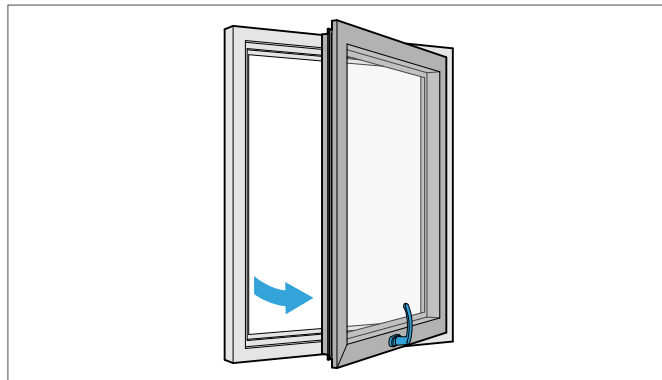
4.4 Operating a comfort window

Opening a window in the turning position

1. Place the window handle in the turning position.

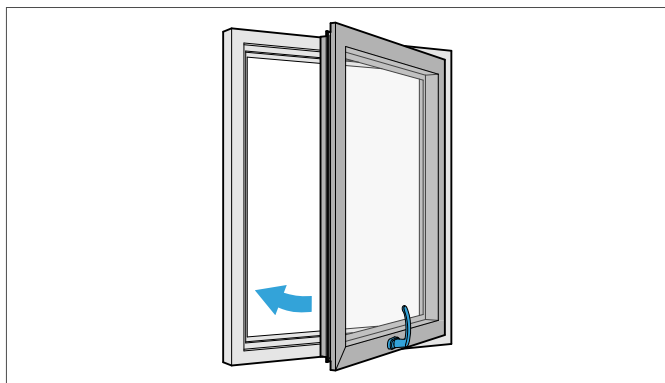


2. Open the sash.

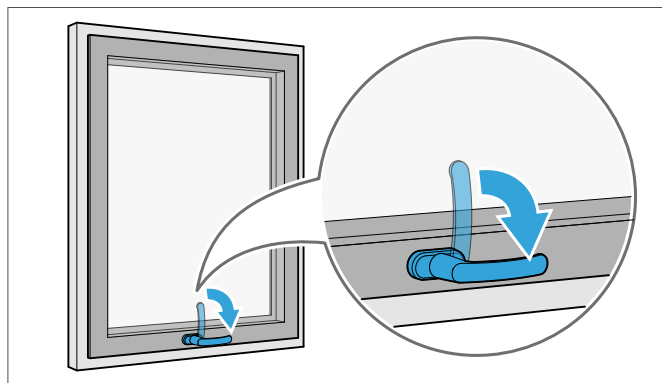


Closing the window

1. Close the sash.

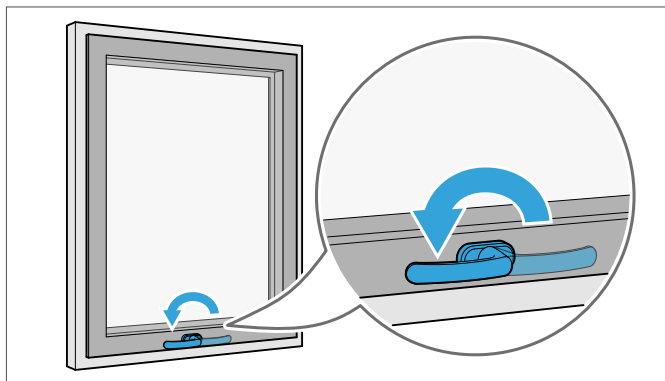


2. Place the window handle in the locking position.

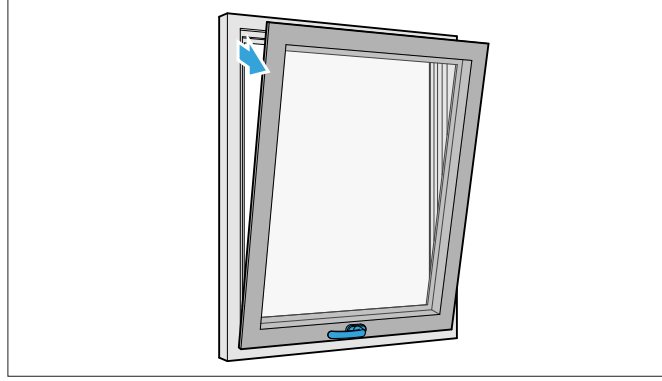


Opening a window in the tilt position

◇ Place the window handle in the tilt position.

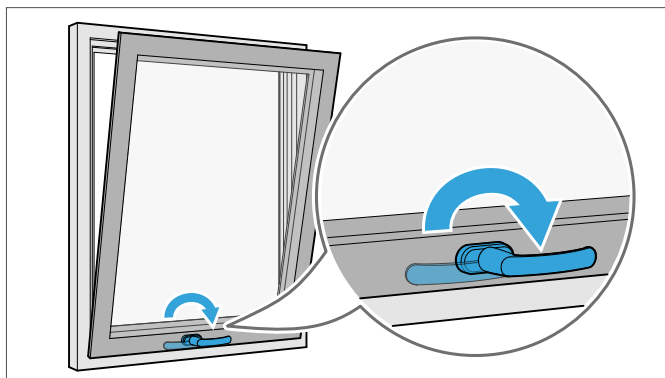


→ The sash tilts automatically.

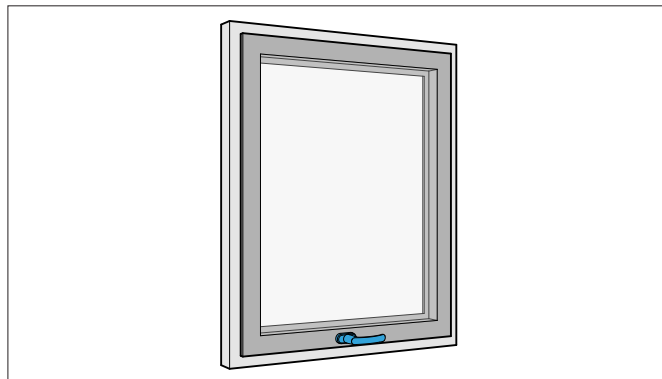


Closing a tilted window

- ◇ Place the window handle in the locking position.



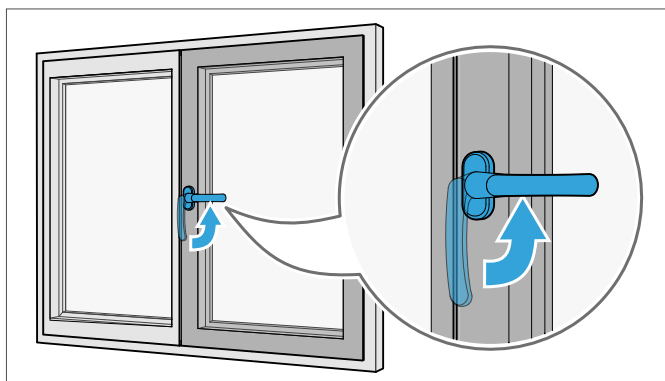
→ The sash closes automatically.



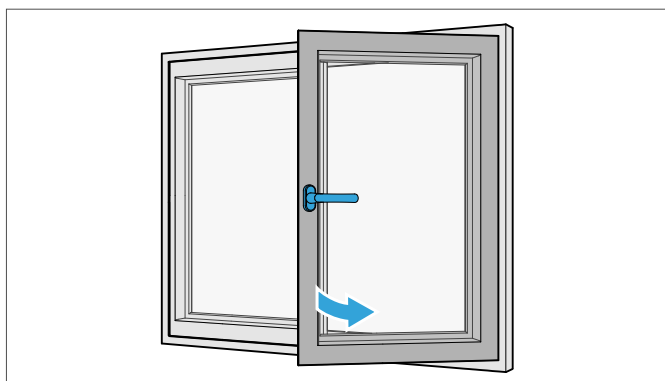
4.5 Operating a double-sash window

Opening and closing a double-sash window

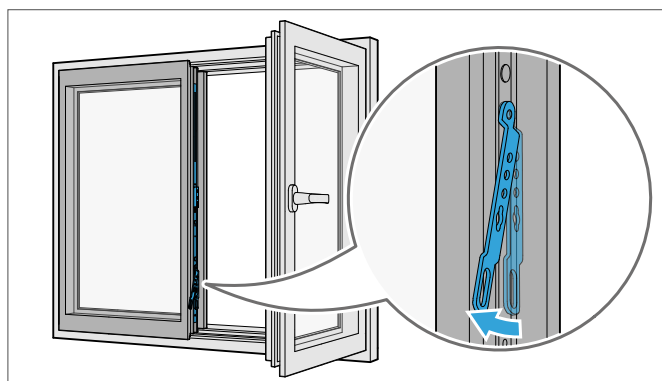
1. Place the window handle on the primary sash in the turning position.



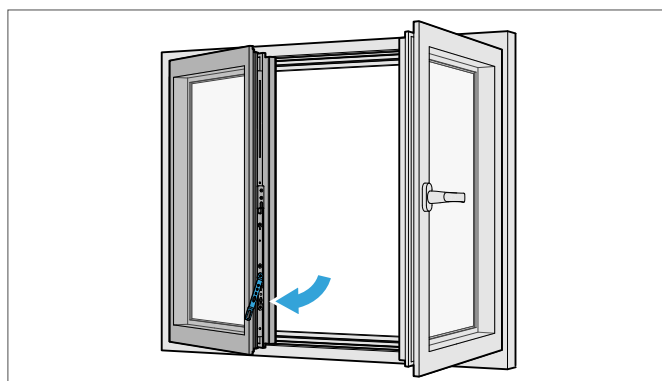
2. Open the primary sash.



3. Swing the handle on the secondary sash inwards.



4. Open the secondary sash.

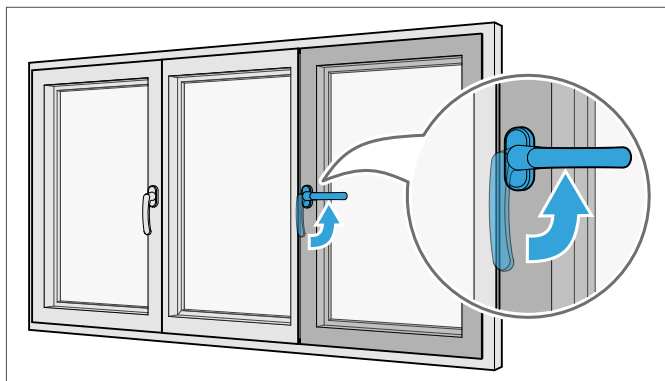


5. Always close the secondary sash first and swing the handle inwards.

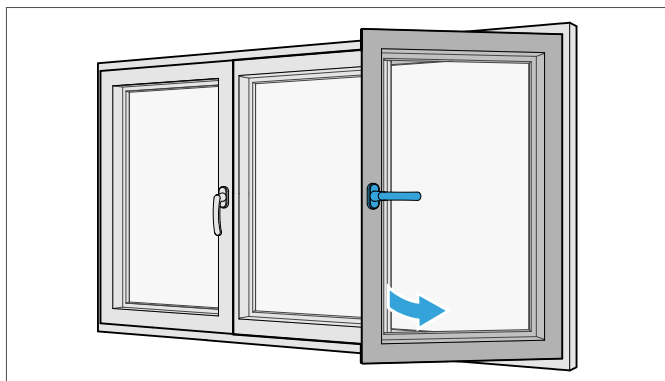
4.6 Operating a triple-sash window

Opening and closing a triple-sash window

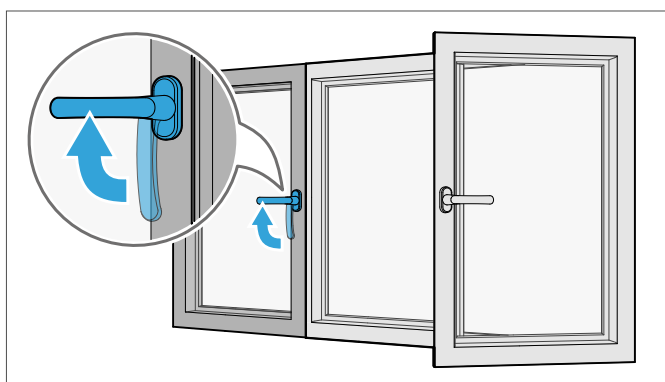
1. Place the window handle on the primary sash in the turning position.



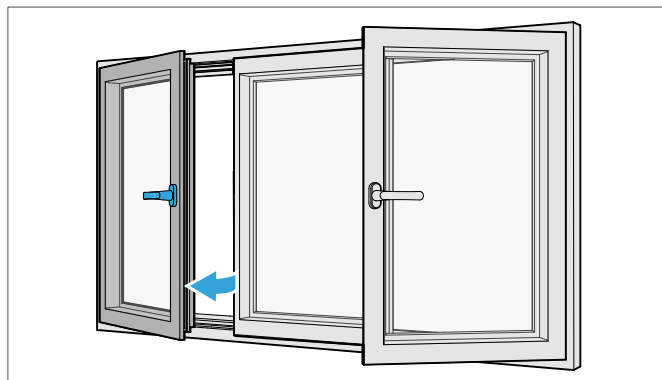
2. Open the primary sash.



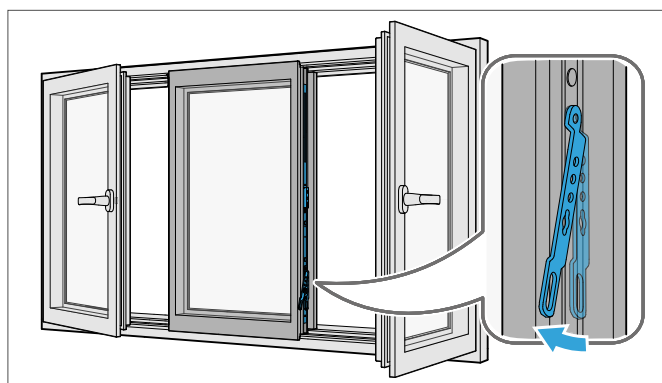
3. Place the window handle on the secondary sash in the turning position.



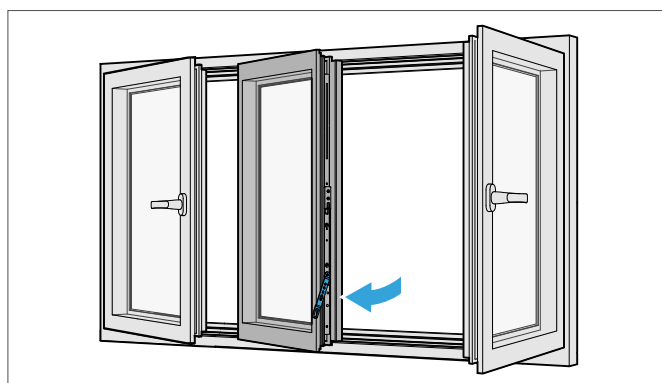
4. Open the secondary sash.



5. Swing the handle on the centre sash inwards.



6. Open the centre sash.



7. Always close the centre sash first and swing the handle inwards. Then do the same with the secondary sash before finally closing the primary sash.

4.7 Operating the opening restrictor S

The opening restrictor S prevents unauthorised individuals from being able to open the window

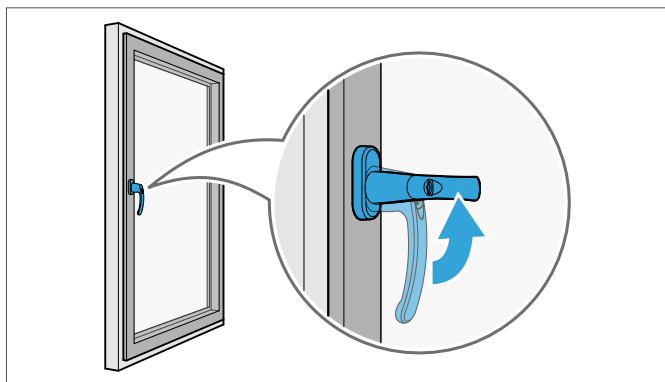
without constraint. The maximum opening width in the turning position is 89 mm. Only authorised individuals can open the window without constraint.

Opening a window with the opening restrictor activated

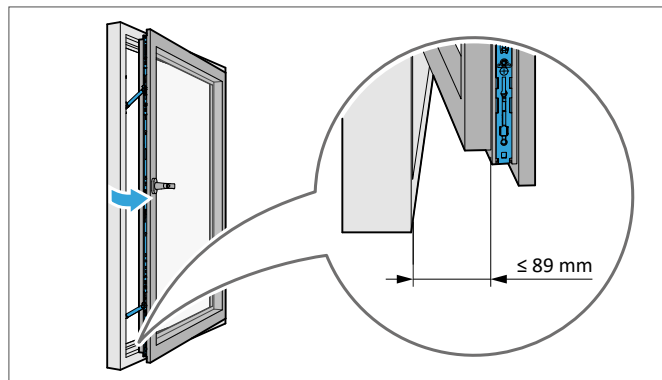
Prerequisite

- The window is equipped with an opening restrictor S.

1. Place the window handle in the turning position.



2. Open the sash.

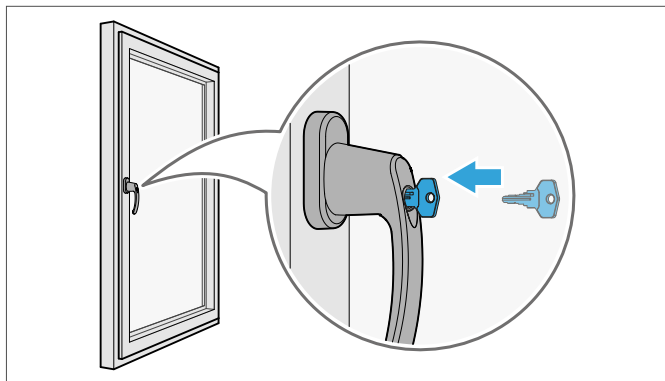


Deactivating the opening restrictor

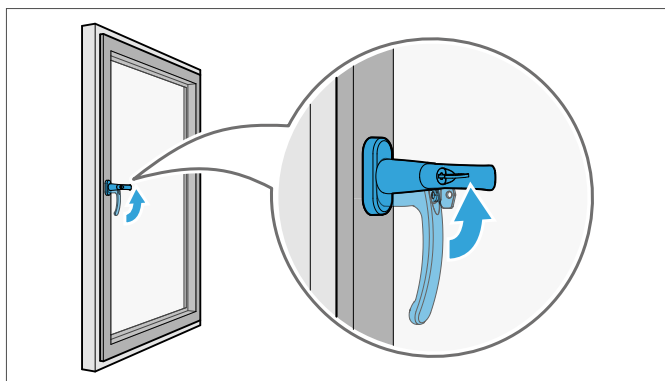
Prerequisite

- The opening restrictor is activated.

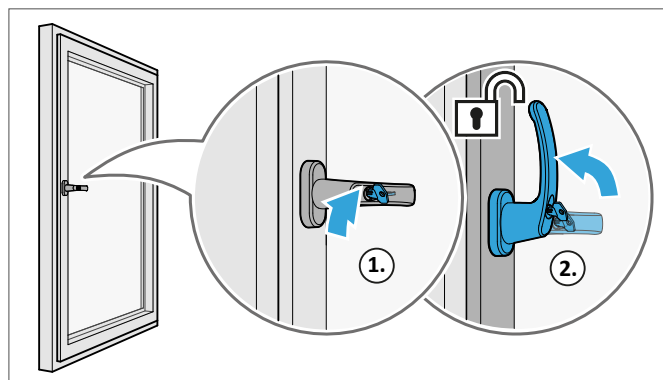
1. Insert the key.



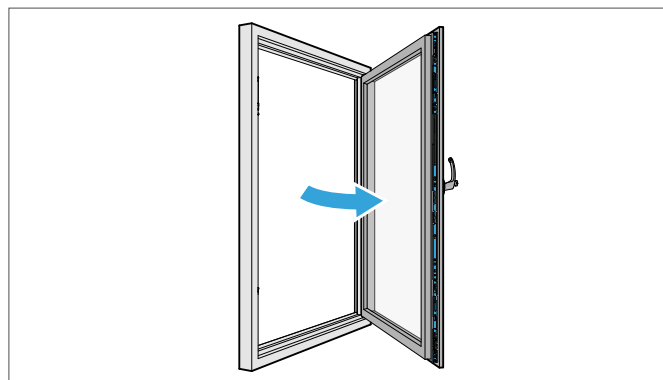
2. Place the window handle in the tilt position.



3. Turn to key to the right and hold in place. Place the window handle in the turning position.



4. Open the sash.

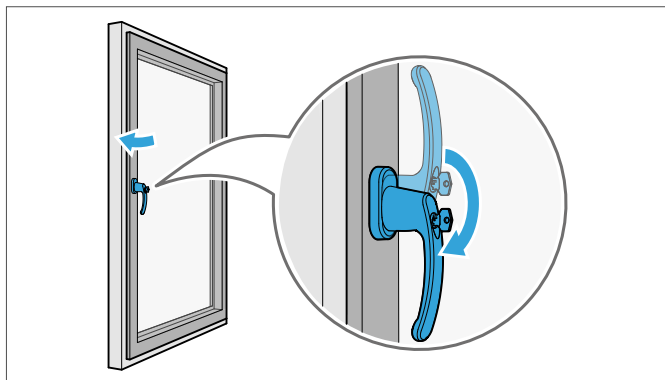


Activating the opening restrictor

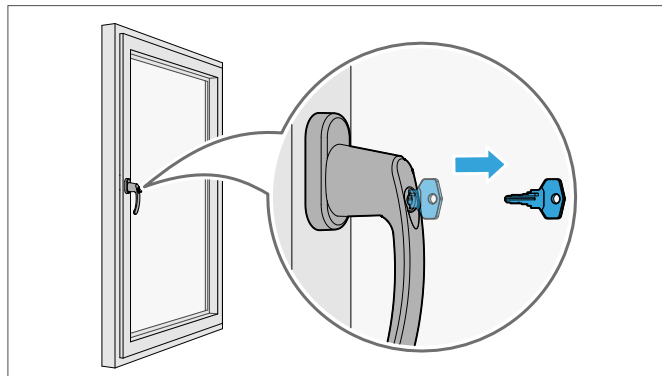
Prerequisite

- The window is open. The opening restrictor is deactivated.

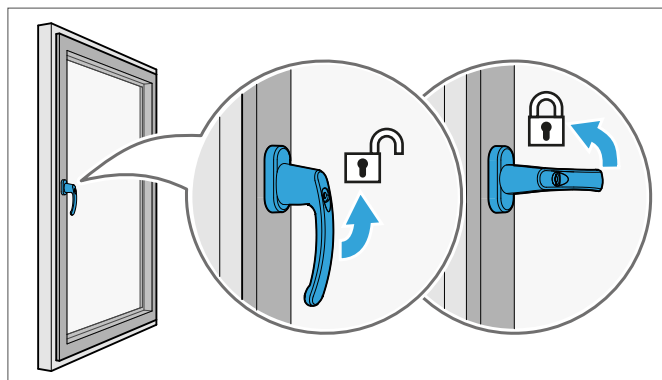
1. Close the sash and place the window handle in the locking position.



2. Remove the key.



3. Make sure that the window handle cannot be turned upwards.



4. Open the sash and check to make sure the opening restrictor is active.

4.8 Operating the opening restrictor C

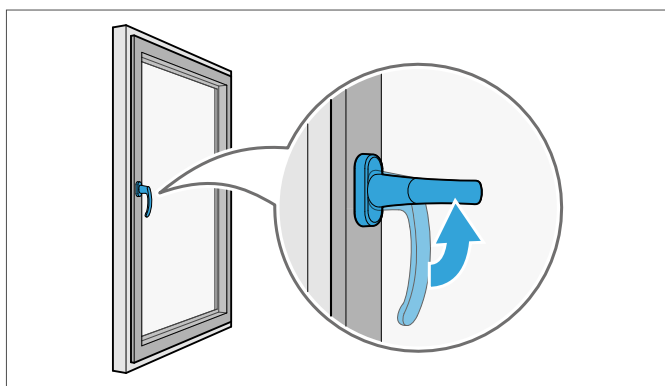
The opening restrictor C restricts the maximum opening width to 89 mm in the turning position. If necessary, users can open the window as far as they like.

Opening a window with the opening restrictor activated

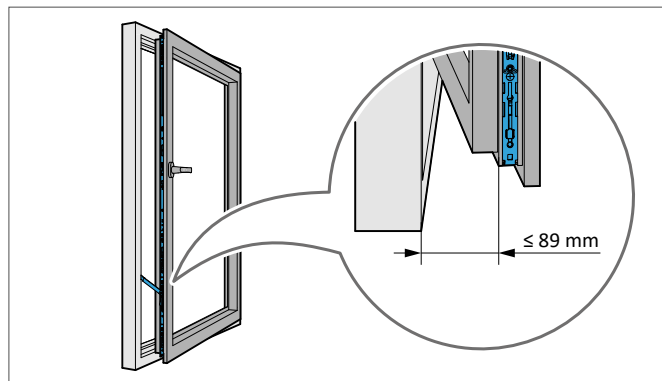
Prerequisite

- The window is equipped with an opening restrictor C.

1. Place the window handle in the turning position.



2. Open the sash.

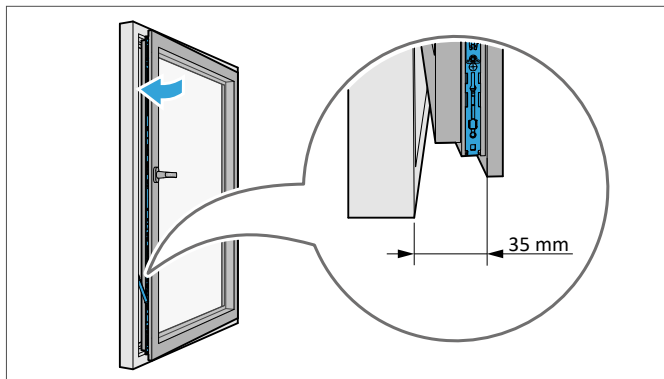


Deactivating the opening restrictor

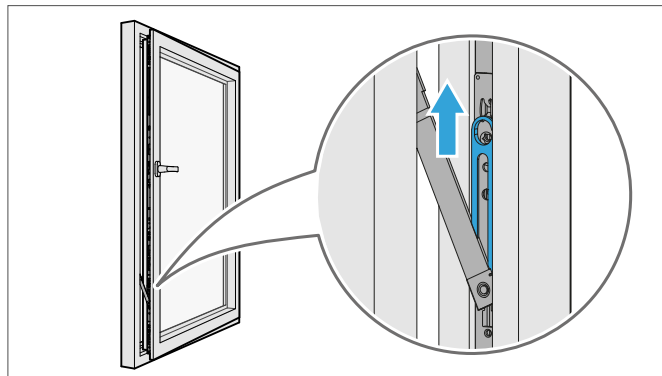
Prerequisite

- The opening restrictor C is activated.

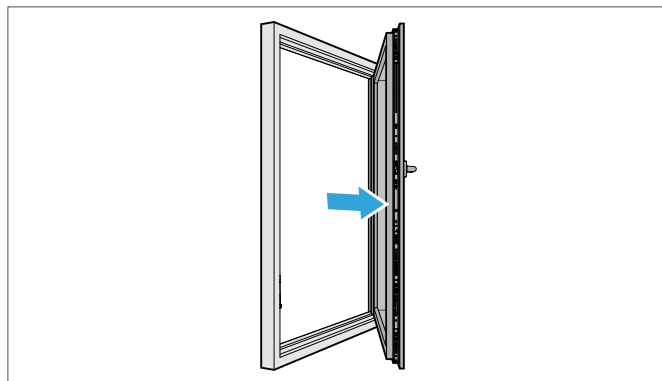
1. Open the sash until the opening width is 35 mm.



2. Pull the slider on the opening restrictor upwards.



3. Open the sash.

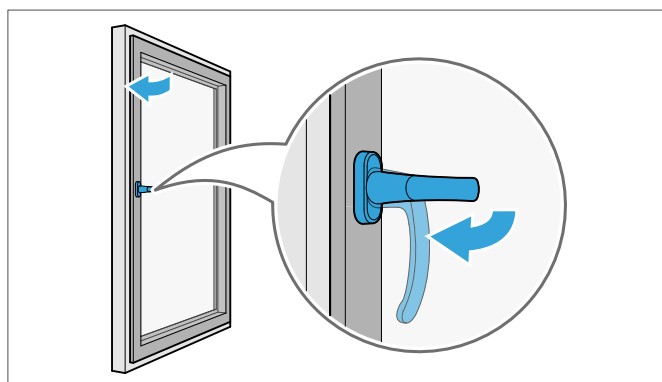


Activating the opening restrictor

Prerequisite

- The window is open. The opening restrictor is deactivated.

1. Close the sash and place the window handle in the locking position.



2. Open the sash and check to make sure the opening restrictor is active.

4.9 Operating the 90° opening restrictor

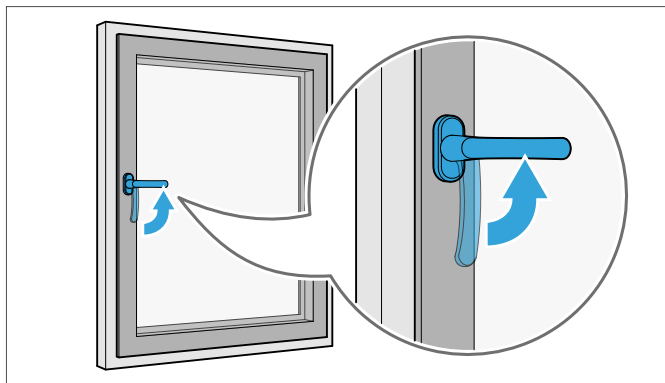
The 90° opening restrictor restricts the opening angle of a window to 90°.

Opening the window

Prerequisite

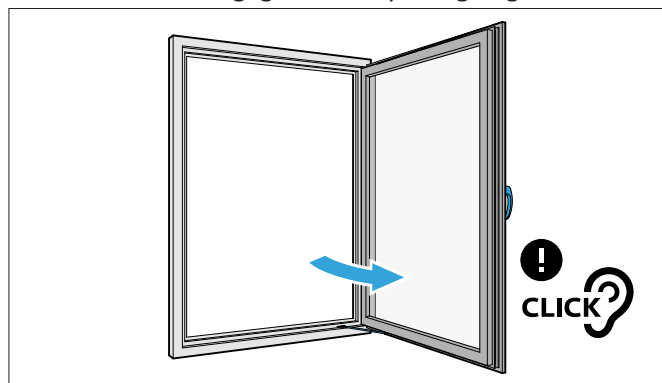
- The window is equipped with a 90° opening restrictor.

1. Place the window handle in the turning position.



2. Open the sash.

→ The sash engages at an opening angle of 90°.



4.10 Operating the sash brake

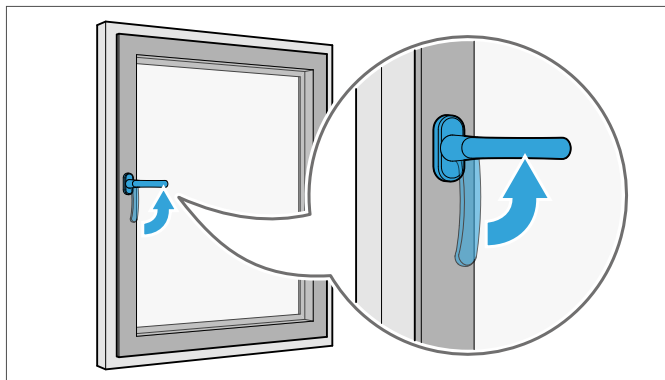
The sash brake restricts the opening angle of a window. Users can select an opening angle of between 25° and 91°. The sash stops at the desired opening angle.

Activating the sash brake

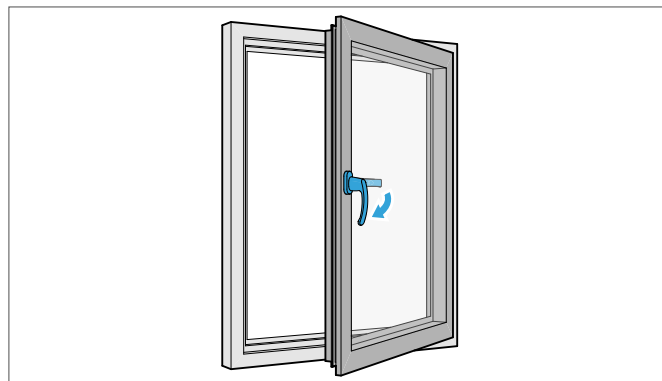
Prerequisite

- The window is equipped with a sash brake.

1. Place the window handle in the turning position.

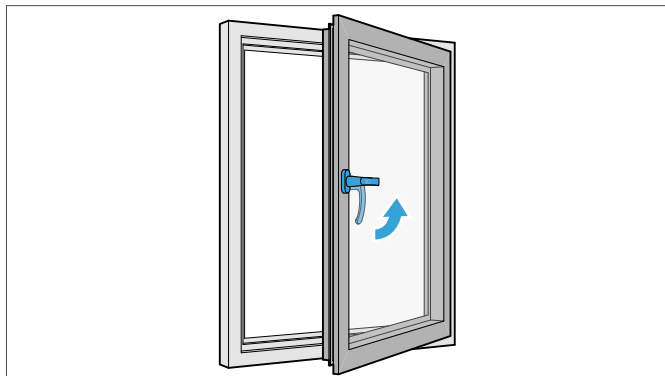


2. Turn the sash to the desired opening width. Place the window handle in the locking position.

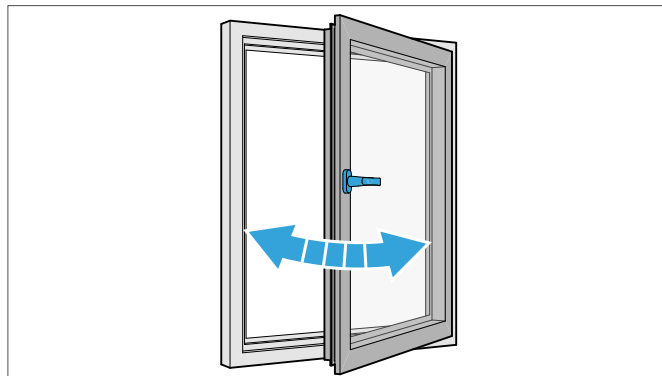


Deactivating the sash brake

1. Place the window handle in the turning position.



2. Push the sash further open or closed.



4.11 Operating the sash brake TR

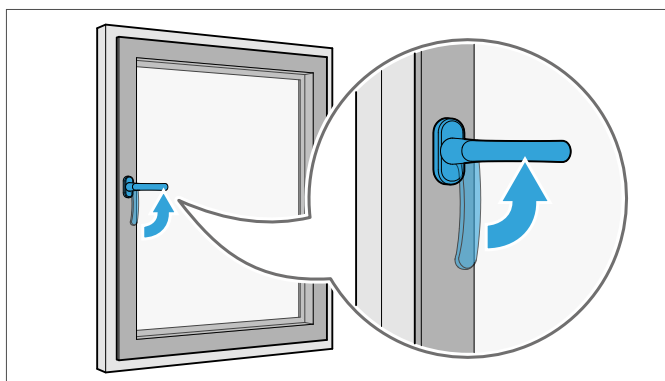
The sash brake TR restricts the opening angle of a window. Users can select an opening angle of between 15° and 90°. The sash stops at the desired opening angle.

Activating the sash brake TR

Prerequisite

- The window is equipped with a sash brake TR.

1. Place the window handle in the turning position.

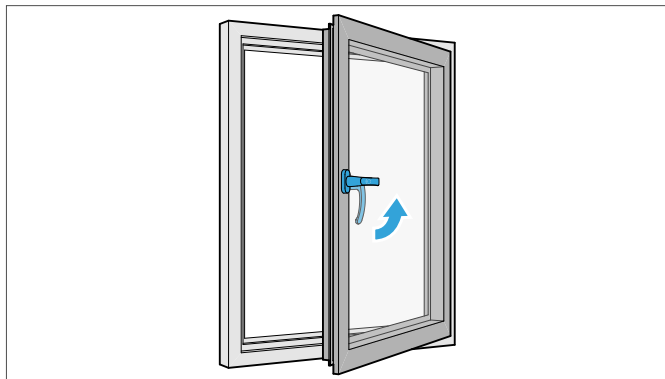


2. Turn the sash to the desired opening width (15° to 90°). Place the window handle in the locking position.

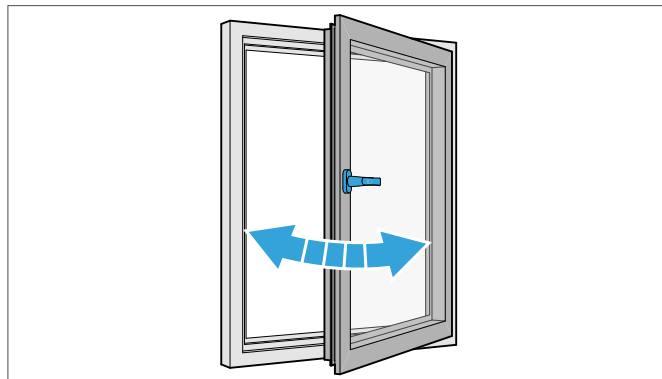


Deactivating the sash brake TR

1. Place the window handle in the turning position.



2. Push the element sash further open or closed.



4.12 Operating the night vent

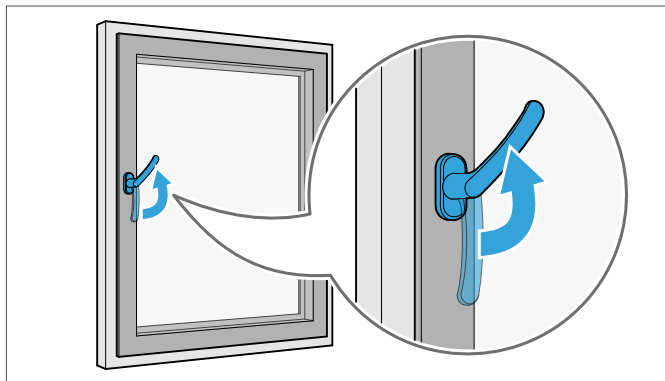
Night vent enables a window to be tilted with a small opening angle.

Opening the window

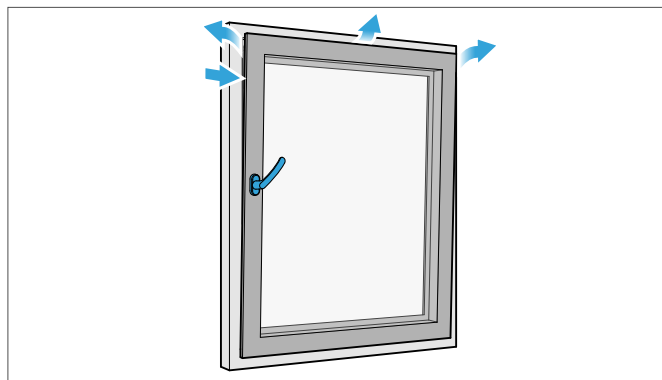
Prerequisite

- The window is equipped with a night vent.

1. Place the window handle in the night vent position.



2. Tilt the sash.



4.13 Operating the energy-saving stay

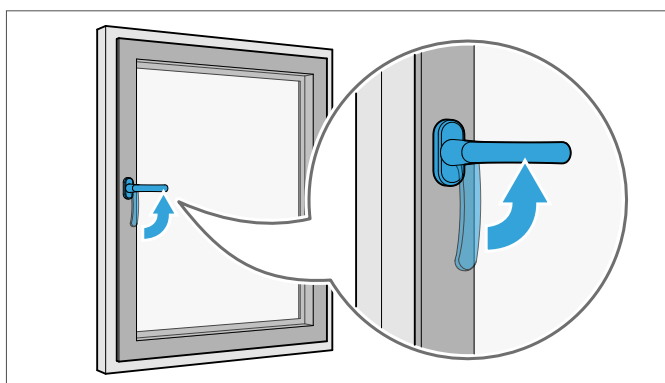
The energy-saving stay enables a window to be tilted with a small opening angle.

Activating the energy-saving stay

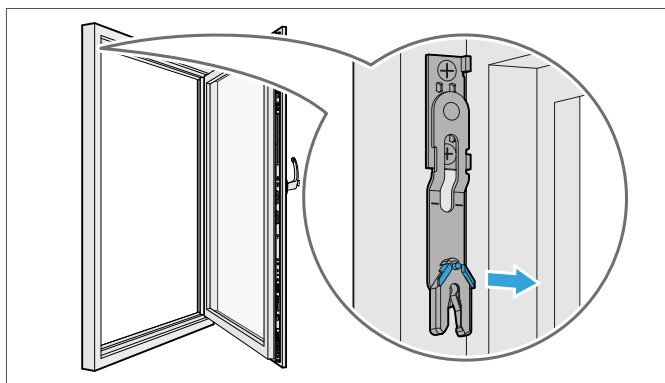
Prerequisite

- The element is equipped with an energy-saving stay.

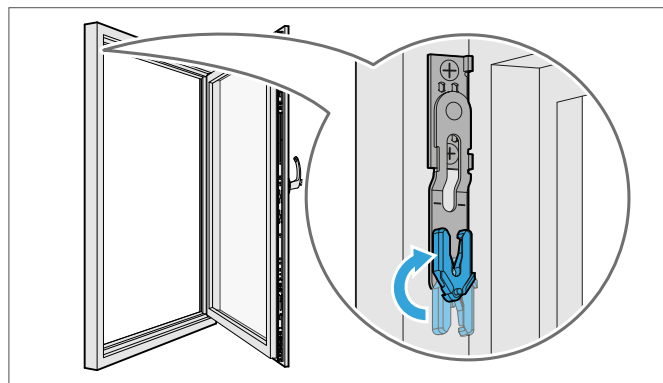
1. Place the window handle in the turning position. Open the window.



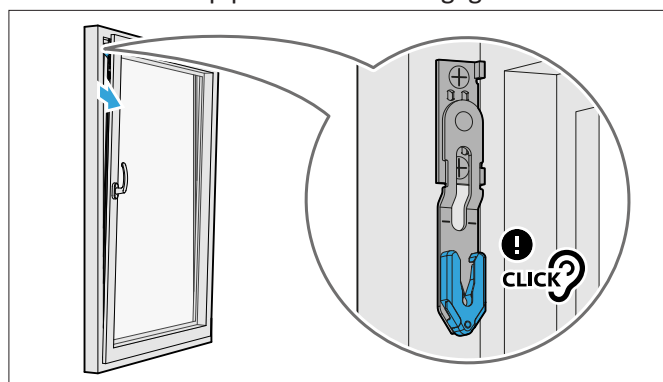
2. To activate the energy-saving stay, release the stop piece by moving it in the arrow direction and hold there.



3. Turn the run-up piece upwards.

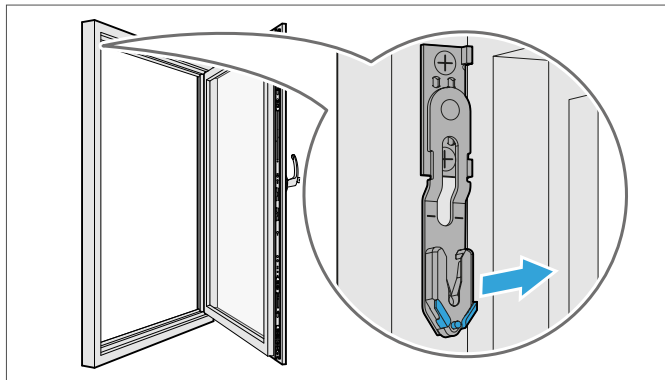


→ The run-up piece will then engage.

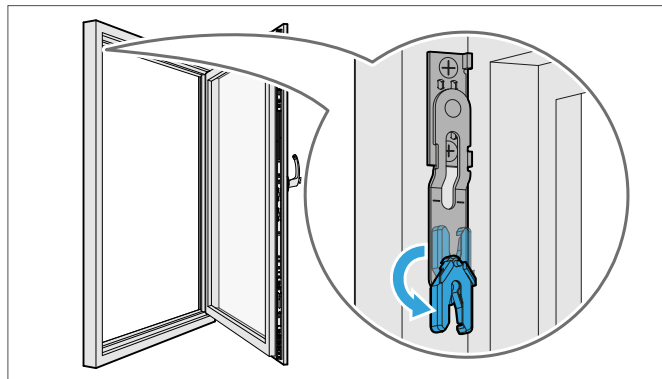


Deactivating the energy-saving stay

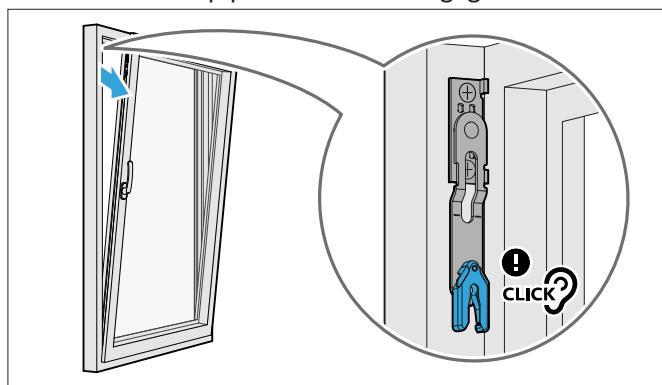
1. To deactivate the energy-saving stay once again, release the stop piece by moving it in the arrow direction.



2. Turn the run-up piece downwards.



→ The run-up piece will then engage.



4.14 Operating the cockspur fastener

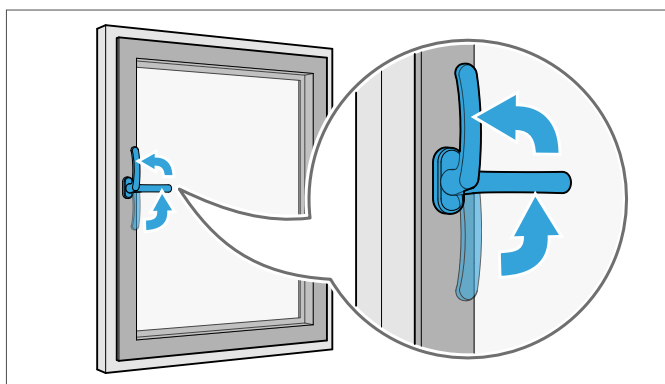
The cockspur fastener restricts the opening width of the window in the turning position or tilt position. Four different opening widths are possible with the cockspur fastener.

Locking the cockspur fastener

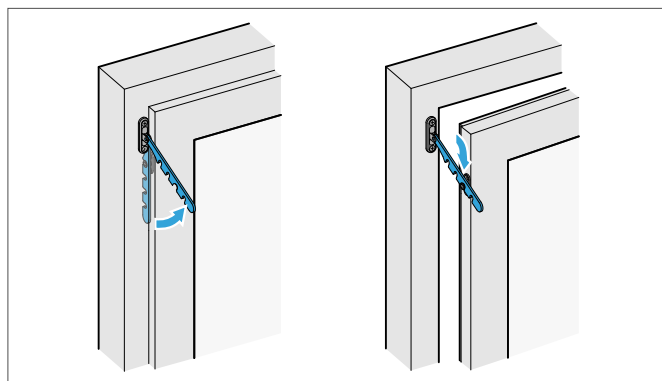
Prerequisite

- The window is equipped with a cockspur fastener.

1. Place the window handle in the turning position or tilt position.



2. Move the sash to the desired position and lock in place using the cockspur fastener.



4.15 Operating the night vent for side-hung windows

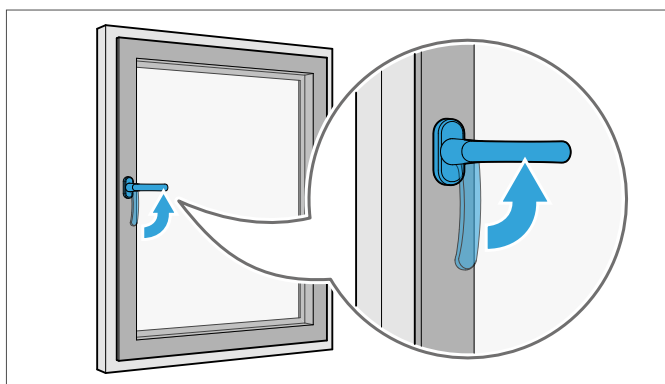
The night vent for side-hung windows restricts the opening width of the window in the turning position. Three different opening widths are possible with the night vent for side-hung windows.

Opening a window without opening restrictor activated

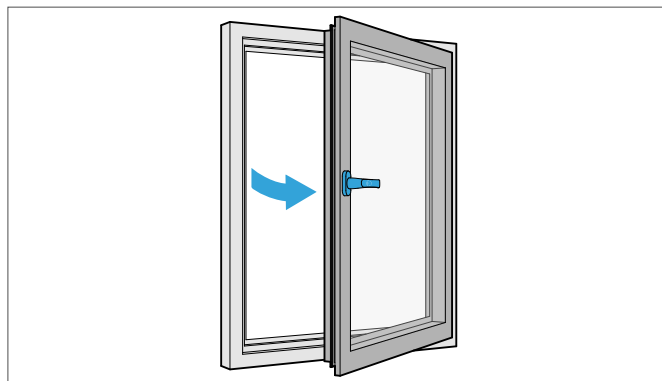
Prerequisite

- The window is equipped with a night vent for side-hung windows.

1. Place the window handle in the turning position.



2. Open the sash in the turning position.



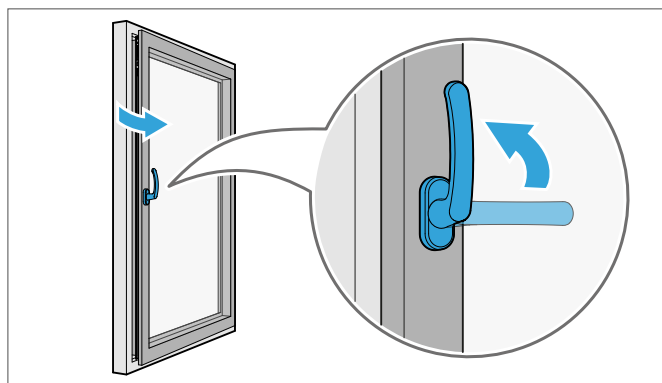
Opening the sash to the first position

Prerequisite

- The opening restrictor is not active.

1. Close the sash.

2. Turn the window handle upwards and open the sash.

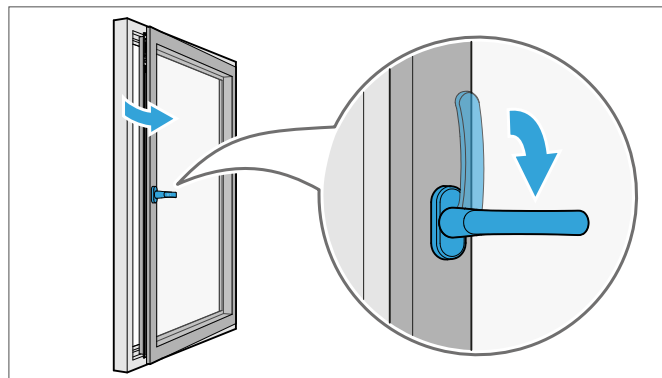


Opening the sash to the second position

Prerequisite

- The first position is active.

- ◇ Place the window handle in the turning position and open the sash.

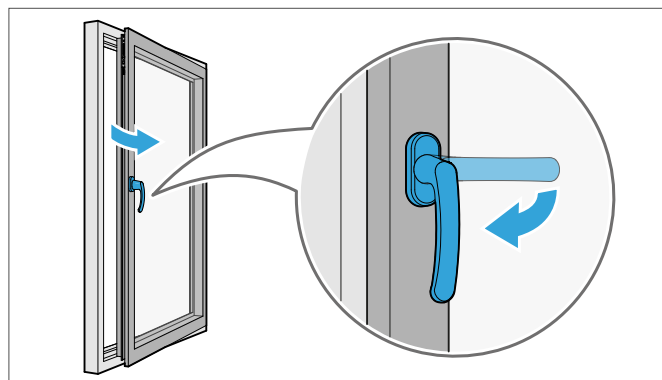


Opening the sash to the third position

Prerequisite

- The second position is active.

- ◇ Place the window handle in the locking position and open the sash.

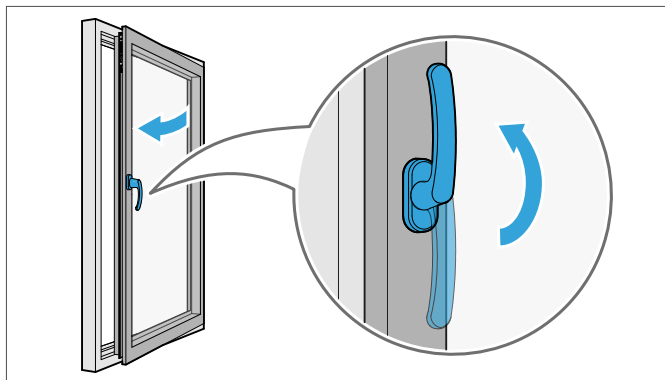


Closing the window

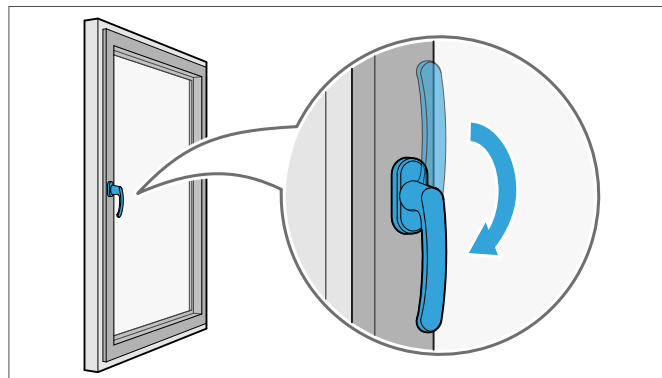
Prerequisite

- The third position is active.

1. Turn the window handle upwards whilst closing the sash at the same time.



2. Place the window handle in the locking position.



4.16 Operating the turning lock

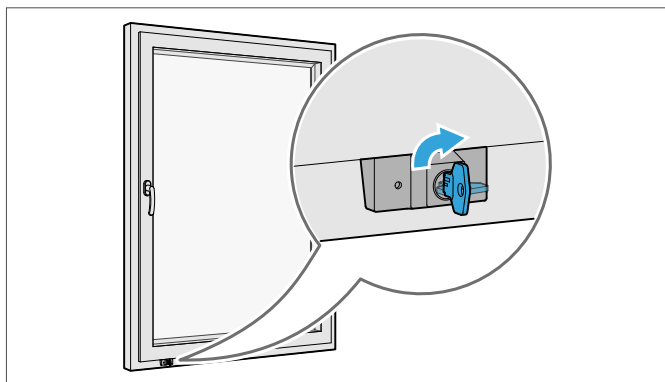
The turning lock prevents unauthorised individuals from being able to open the window in the turning position. When the turning lock is activated, the window can only be opened in the tilt position.

Activating the turning lock

Prerequisite

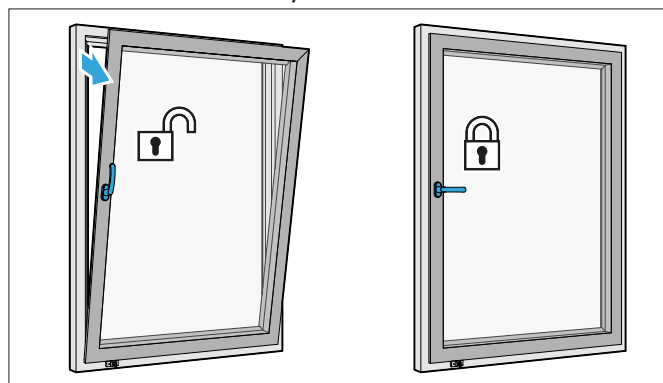
- The window is equipped with a turning lock.

1. Turn the key to the right.



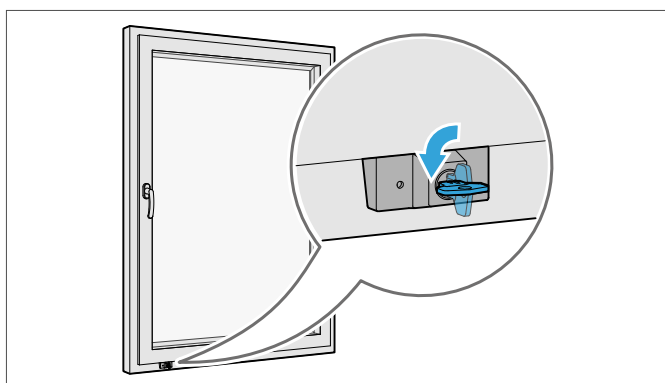
2. Remove the key.

→ The sash can only be tilted.

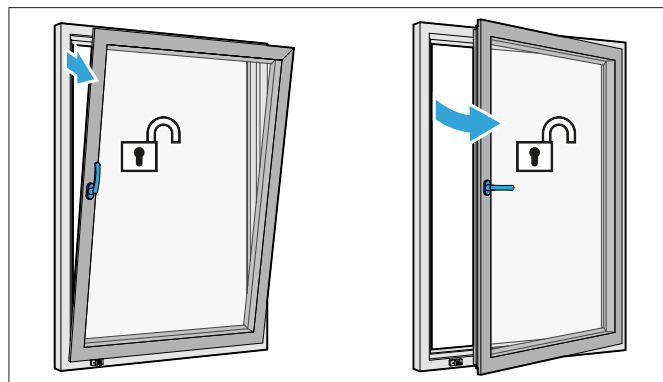


Deactivating the turning lock

- ◇ Turn the key to the left.



→ The sash can be turned and tilted.



4.17 Operating the concealed turning lock

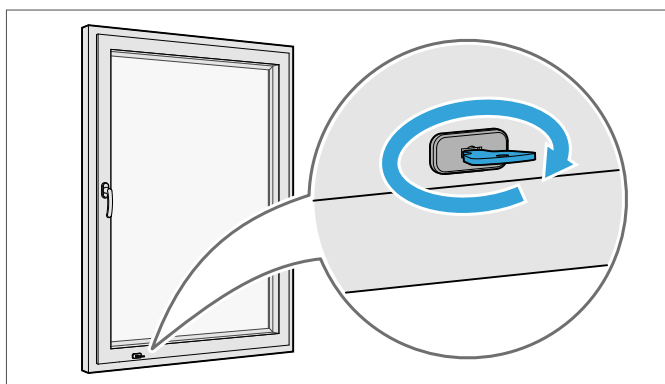
The concealed turning lock prevents unauthorised individuals from being able to open the window in the turning position. When the turning lock is activated, the window can only be opened in the tilt position.

Activating the concealed turning lock

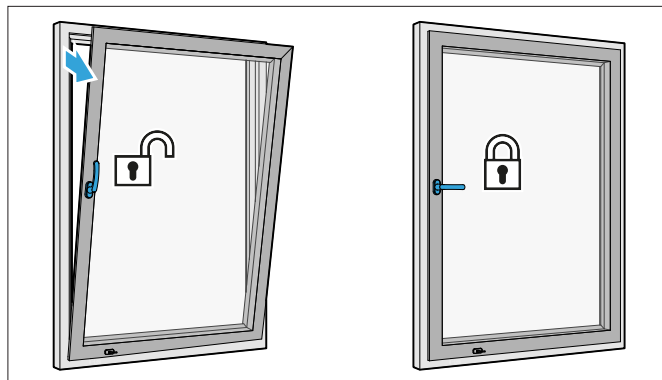
Prerequisite

- The window is equipped with a concealed turning lock.

◇ Turn the key to the right.

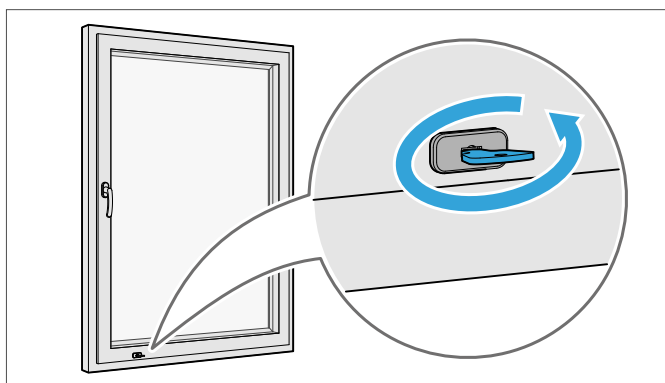


→ The sash can only be tilted.

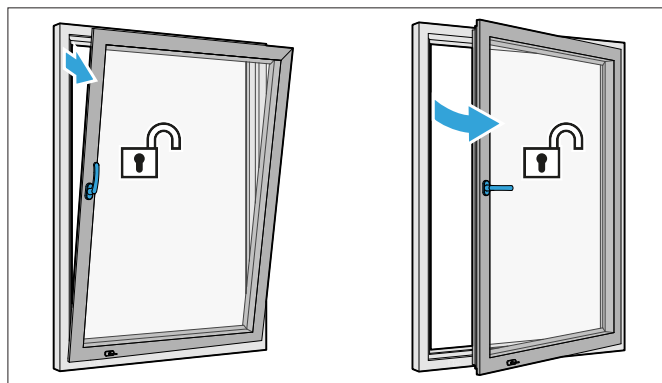


Deactivating the concealed turning lock

◇ Turn the key to the left.



→ The sash can be turned and tilted.



4.18 Operating the lockable window handle

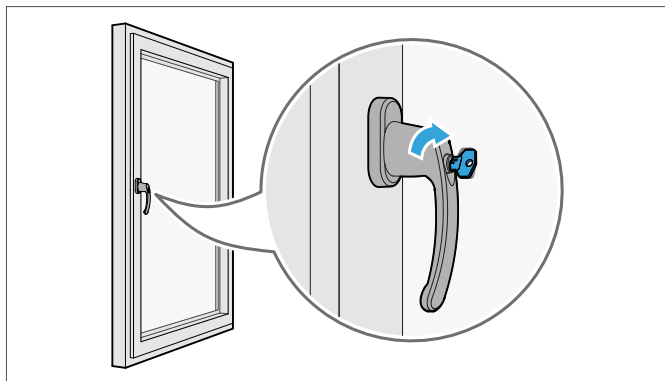
A lockable window handle enables a window to be locked.

Unlocking the window

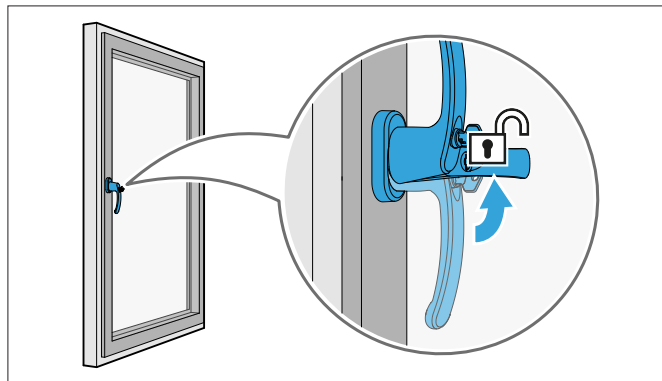
Prerequisite

- The window is equipped with a lockable window handle.

◇ Turn the key to the right.

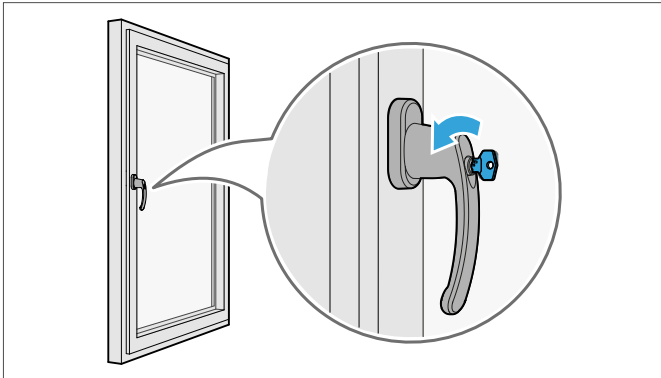


→ The window can be turned and tilted.

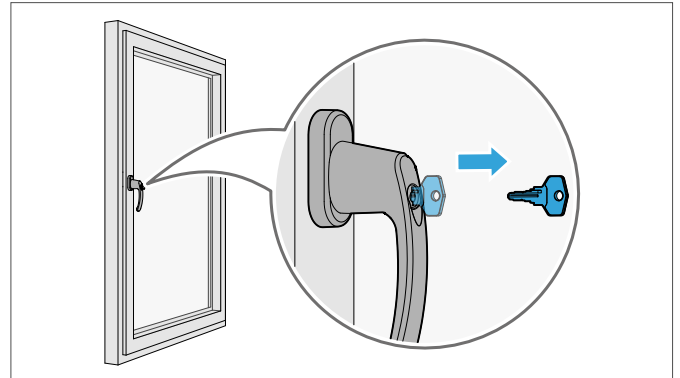


Locking the window

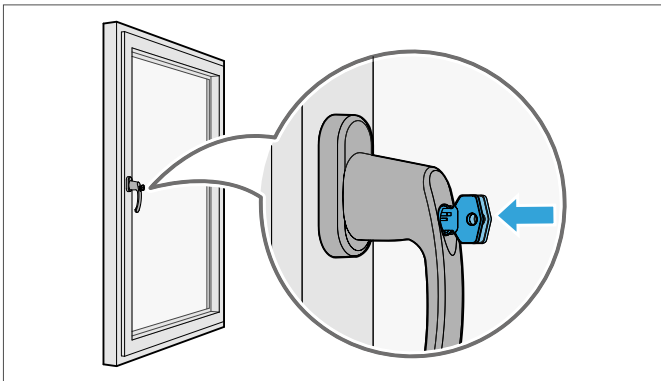
1. Turn the key to the left.



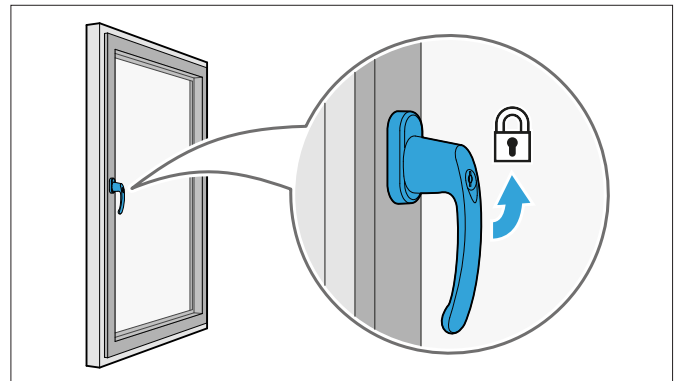
3. Remove the key.



2. Push the cylinder lock in with the key.



→ The window cannot be turned or tilted.

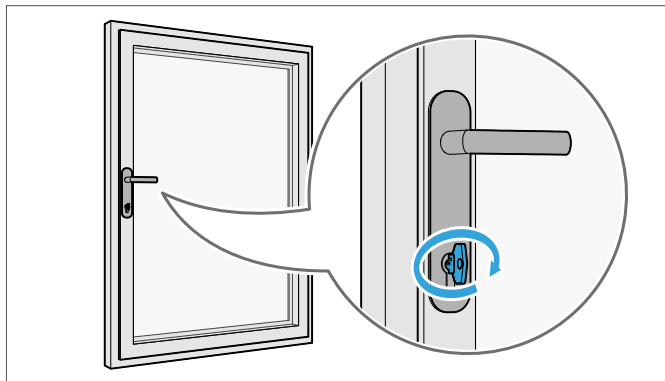


4.19 Operating the door handle

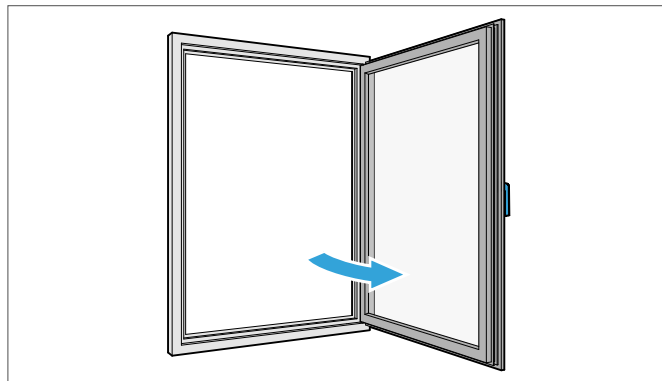
A door handle enables a patio door to be opened in the turning position. Door handles are lockable.

Unlocking the patio door

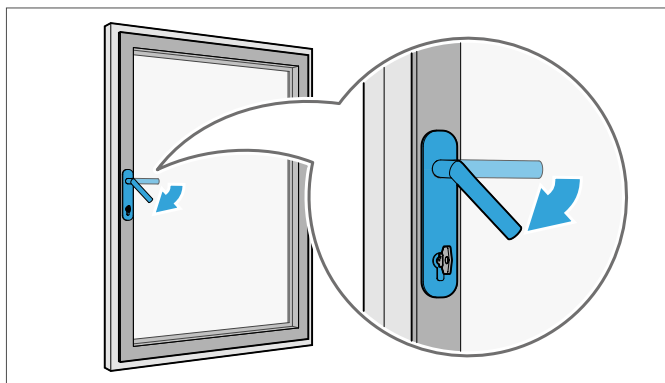
1. Turn the key to the right.



3. Open the patio door.



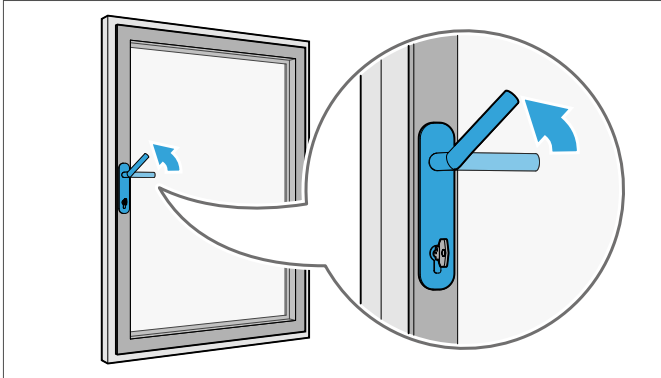
2. Push the door handle down.



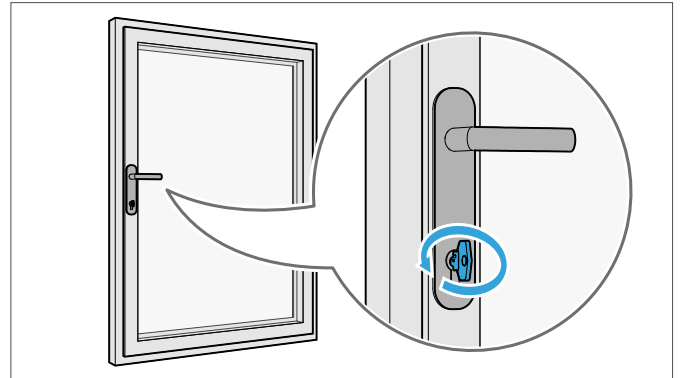
Locking the patio door**Prerequisite**

- The patio door is equipped with a door handle.

1. To release the key, push the door handle up as far as it will go.



2. Turn the key to the left.

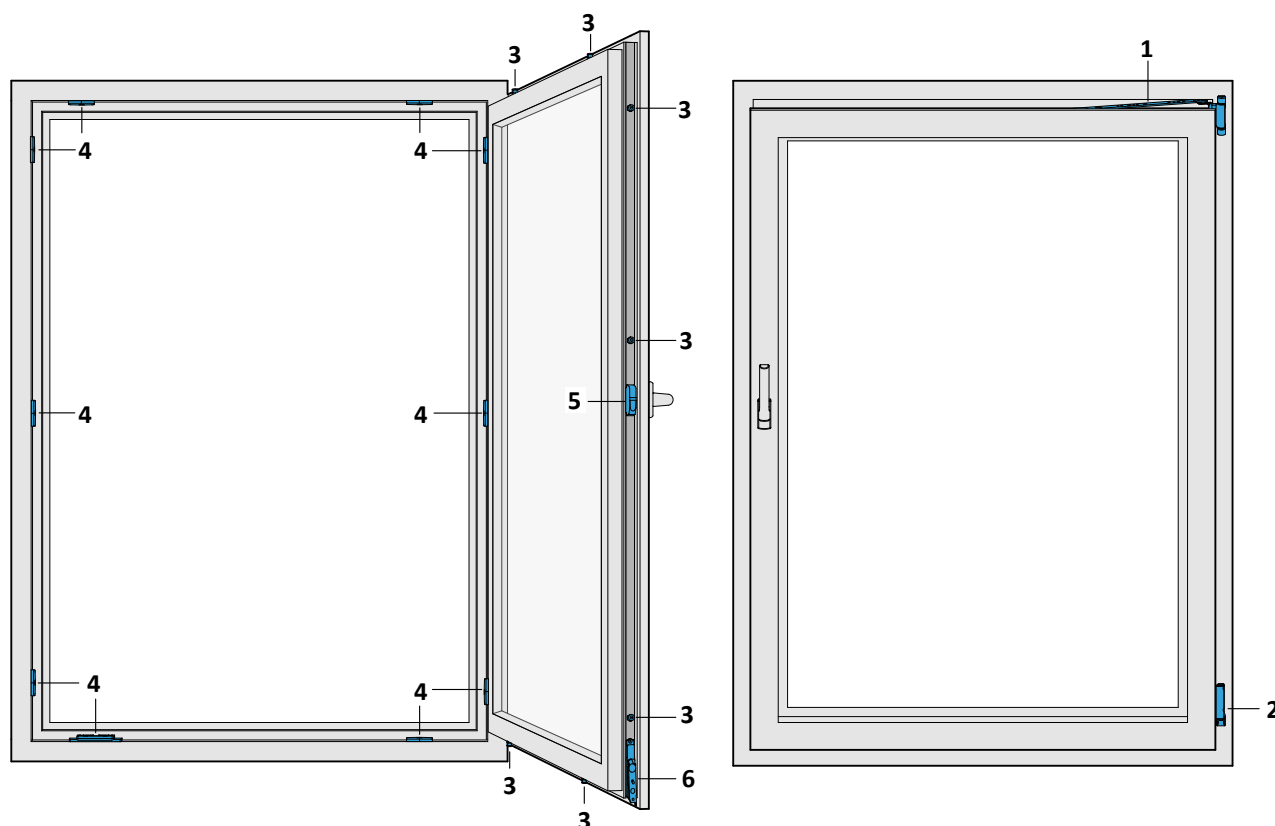


5 Care and maintenance

5.1 Notes on cleaning and maintenance

- ◇ Use a soft cloth for cleaning.
- ◇ Use a diluted, pH-neutral cleaning agent only for cleaning purposes.
- ◇ Dry the hardware thoroughly after cleaning.
- ◇ Lightly wipe the surface with an oil-soaked cloth. Use an acid-free, resin-free oil for this.

5.2 Lubricating components



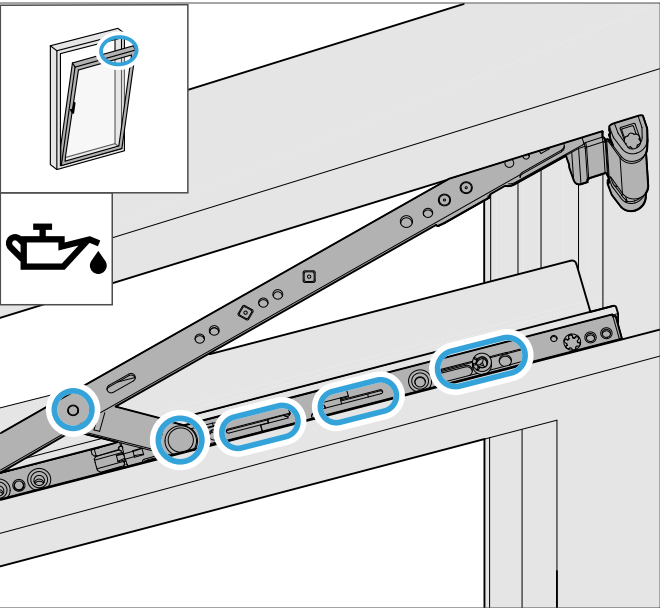
1	Stay (see page 44)
2	Corner hinge (see page 46) and bottom hinge (see page 47)
3	Comfort mushroom cam (see page 47)
4	Striker plates (see page 48)
5	Mishandling device (see page 49)
6	Tilt-lock element (see page 50) and sash lifter (see page 49)

Work equipment		Intended use	Material number
	Recommended lubricant: • Cosmo fitting oil from SIEGENIA	All moving hardware components in the sash	H4001.2130
	• Maintenance grease from SIEGENIA	All locking points in the frame	ZXSX0120-093010

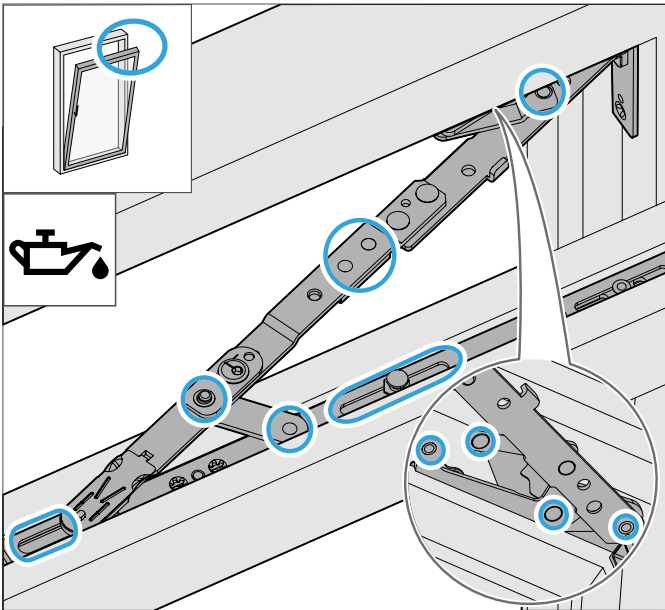
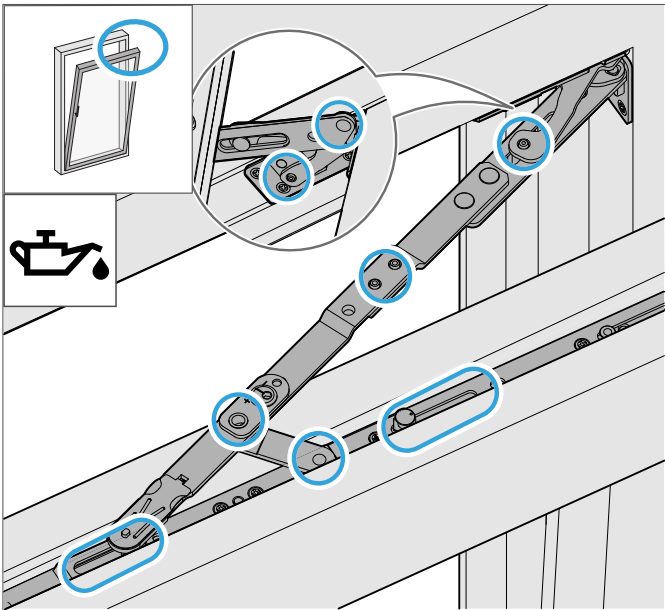
Range of application of the fittings	Frequency
Schools, hotels, hospitals	Every six months
Office or public buildings	Every six months
Buildings within ≤ 1000 m of the coast	Every six months
General residential buildings	Annually

Lubricating stays

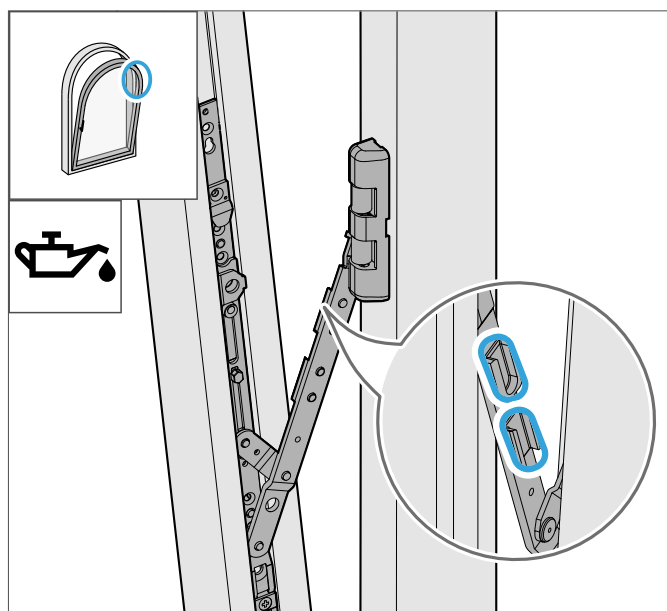
◇ For a window with a surface-mounted hinge side: lubricate the stays at the marked points.



◇ For a window with a concealed hinge side: lubricate the stays at the marked points.

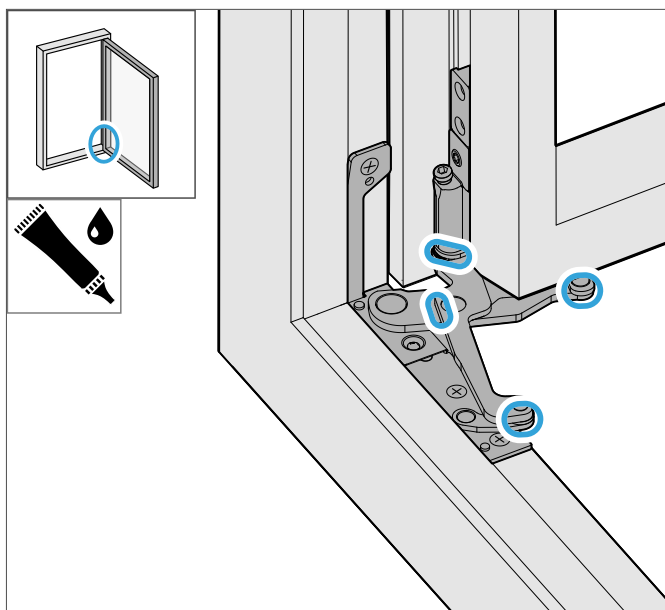
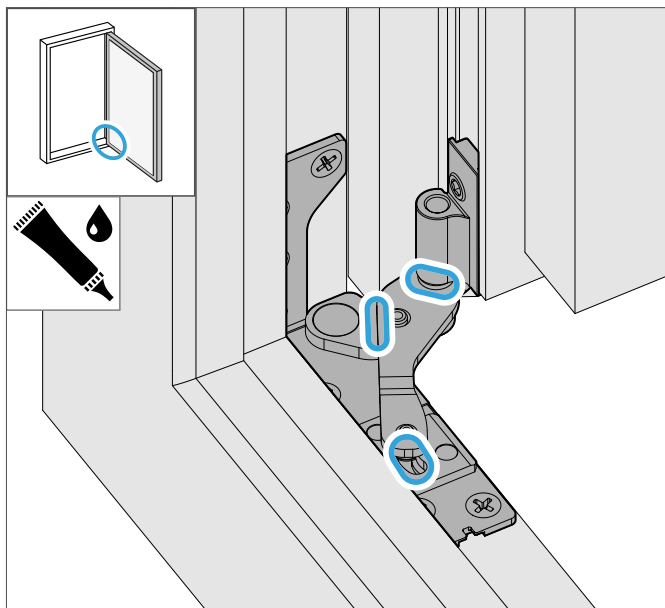


- ◇ For a arched head window or other non-standard windows: lubricate the stays at the marked points.



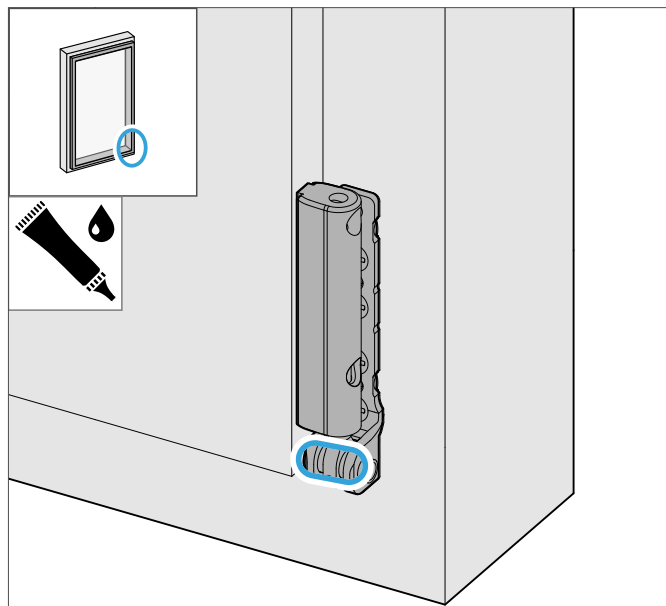
Lubricating the concealed corner hinge

- ◇ Lubricate the corner hinge at the marked points.



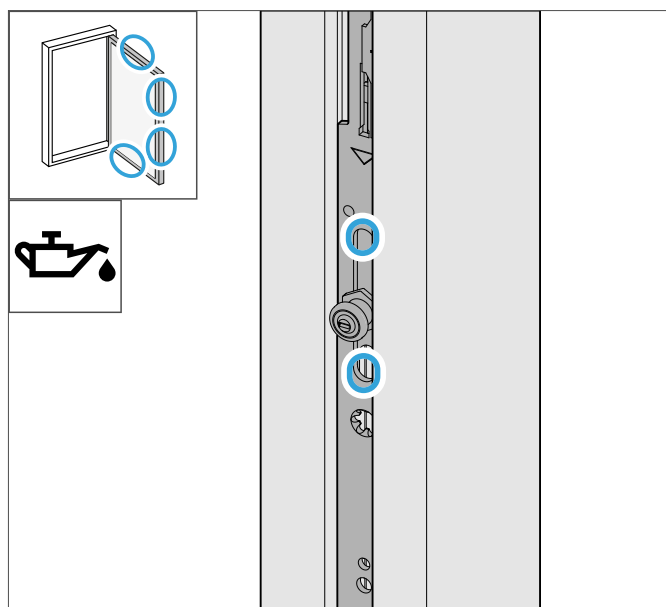
Lubricating the surface-mounted bottom hinge

- ◇ Lubricate the bottom hinge at the marked point.



Lubricate locking element

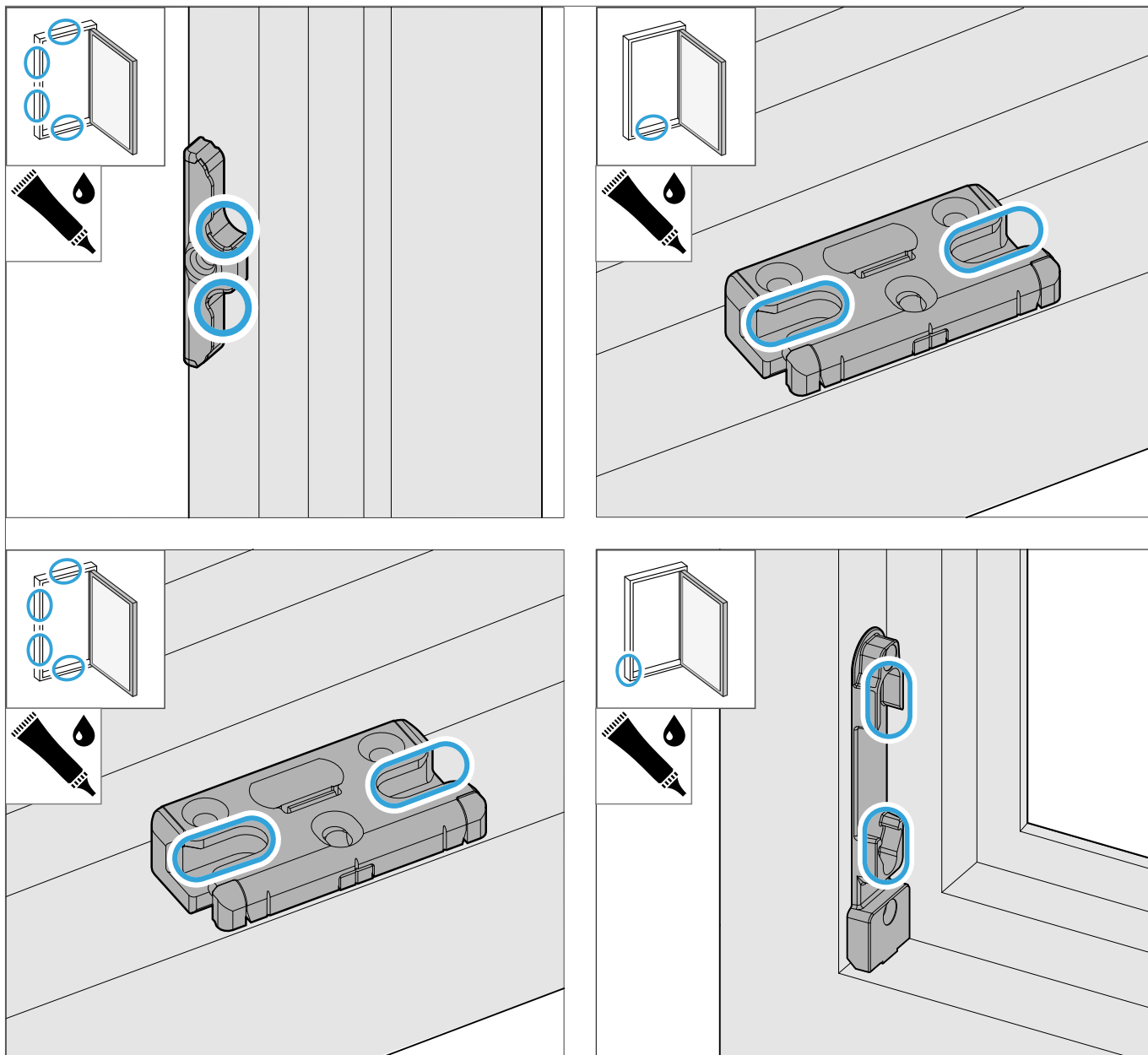
- ◇ Lubricate the comfort mushroom cams at the marked points.



Lubricating the striker plates

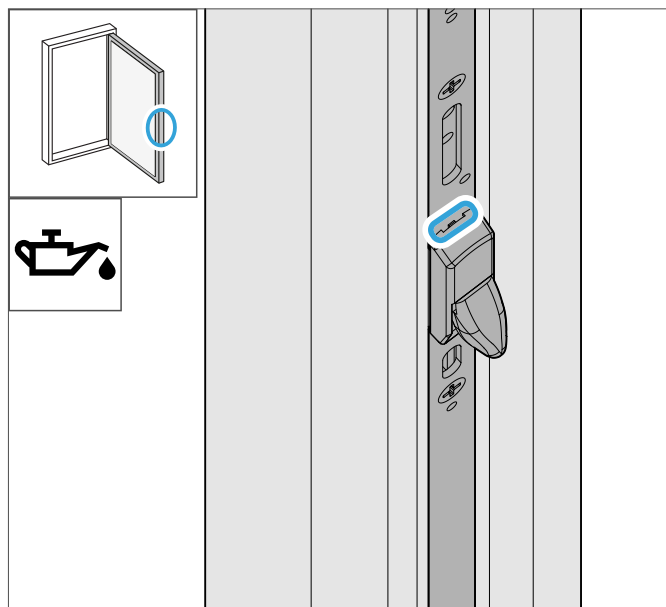
There are various types of striker plates, depending on the window design.

◇ Lubricate the striker plates at the marked points.



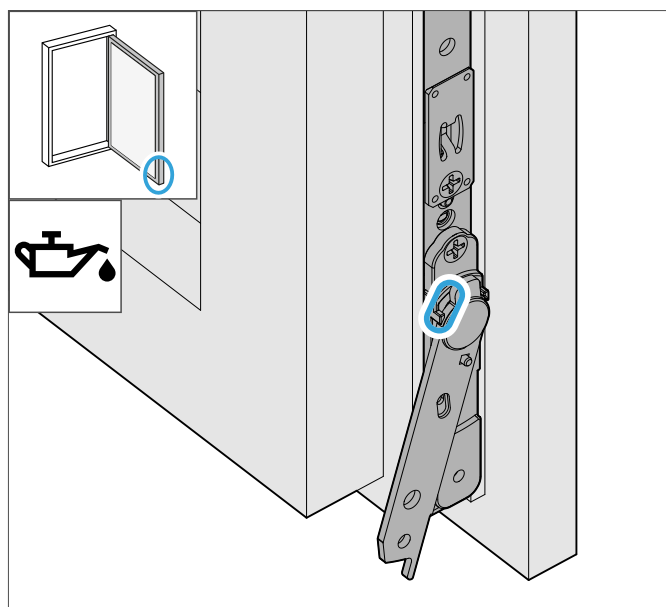
Lubricating the mishandling device

- ◇ Lubricating the mishandling device at the marked point.



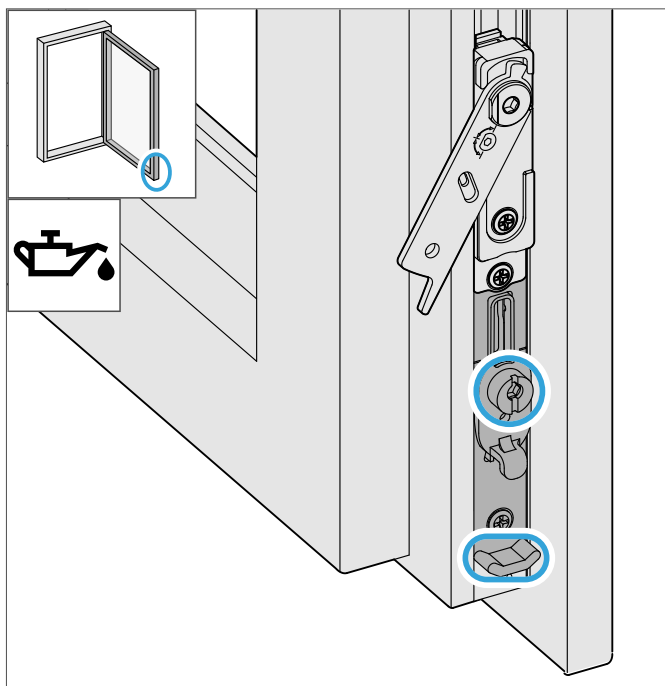
Lubricate sash lifter FBS

- ◇ Lubricate sash lifter FBS at the marked point.



Lubricate tilt-lock element FH

- ◇ Lubricate the tilt-lock element at the marked points.



6 Troubleshooting

6.1 Contact to producer

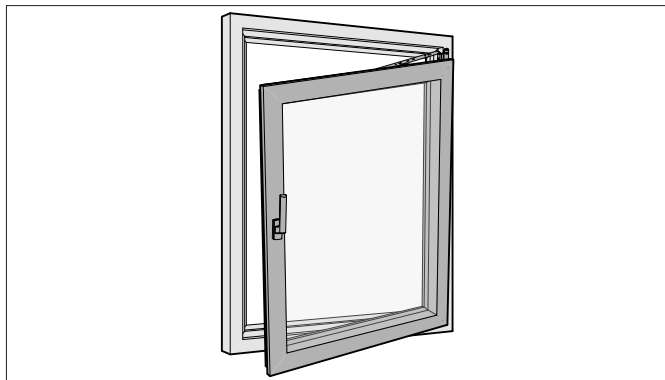
- ◇ If the following information does not describe the error, then contact the producer:
<https://link.si/td/service001/0324>



6.2 Troubleshooting

Problem	Possible cause	Solution
The window has come off its hinges.	Misuse	, the Hanging the sash (see page 52).
The comfort mushroom cam does not move smoothly into the striker.	The comfort mushroom cam has moved during cleaning.	, the Airgap adjustment comfort mushroom cam (see page 53).
The opening restrictor S is not functioning.	The extension arm is not hooked into the sash part.	, the Hooking the extension arm on the opening restrictor S into place (see page 53).
The opening restrictor C is not functioning.	The spring on the extension arm has moved.	, the Positioning the spring on the opening restrictor C (see page 54).

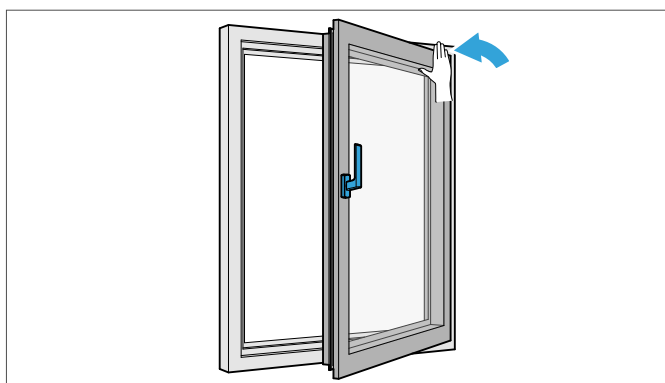
Hanging the sash



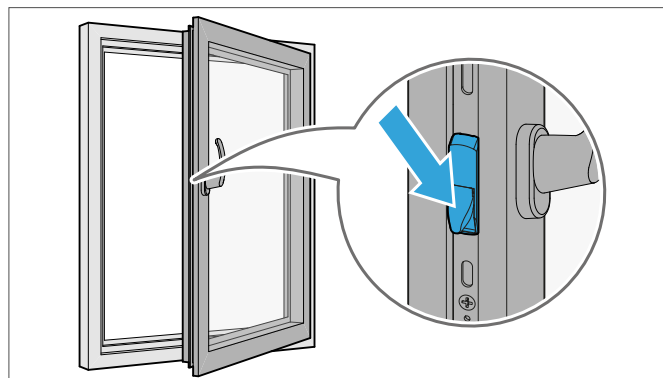
Prerequisite

- The sash has come off its hinges.

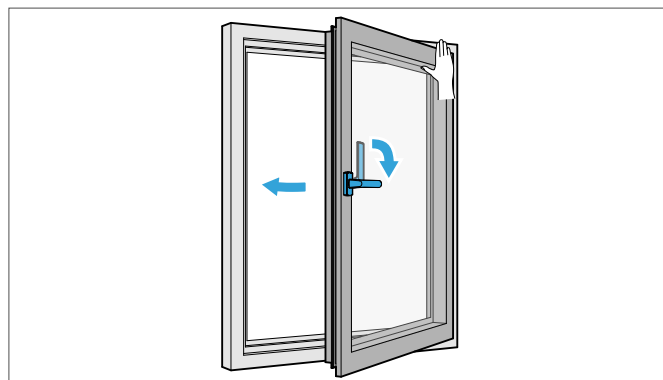
1. Hang the sash in the correct position and hold in place.



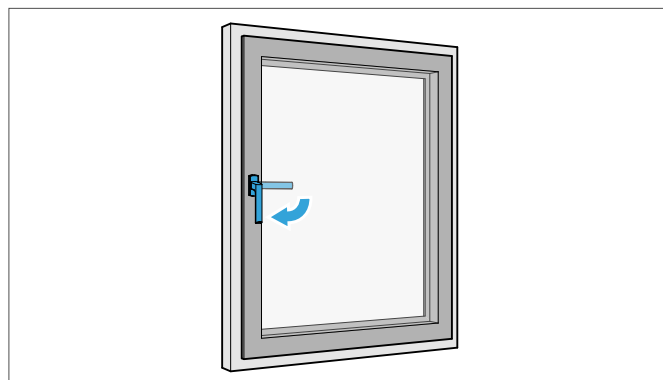
2. Press the mishandling device if existent.



3. Place the window handle in the turning position.
Close the sash.

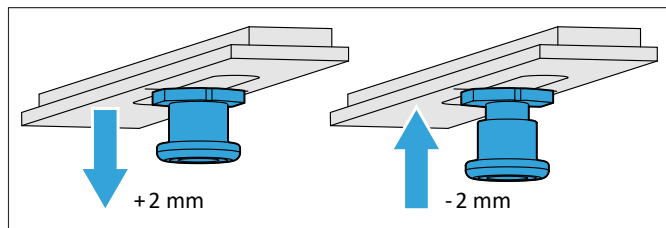


4. Place the window handle in the locking position.



Airgap adjustment comfort mushroom cam

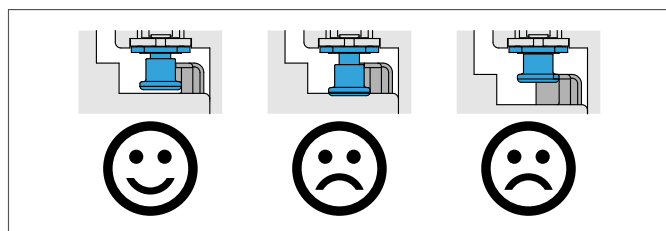
The comfort mushroom cam can be adjusted.



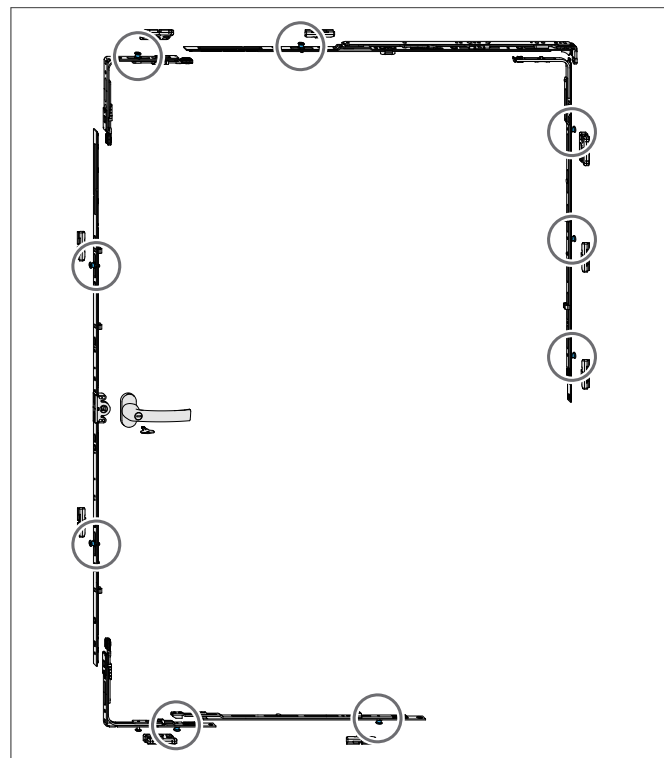
Prerequisite

- The comfort mushroom cam does not move smoothly into the striker plate.

1. Move the comfort mushroom cam to the correct position.



2. Check all the comfort mushroom cams.



Hooking the extension arm on the opening restrictor S into place

Prerequisite

- The extension arm on the opening restrictor S has come unhooked.

- ◇ Hook the extension arm into place in the guide.

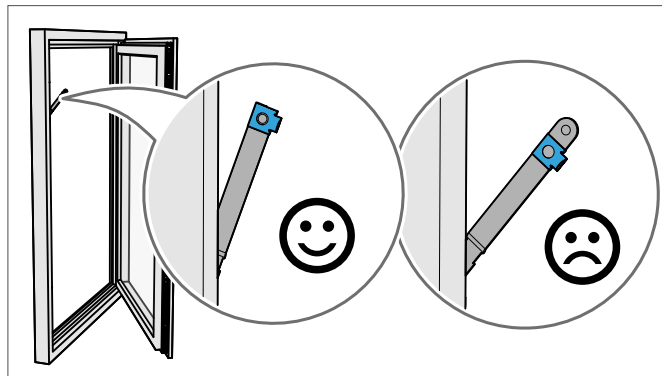


Positioning the spring on the opening restrictor C

Prerequisite

- The spring on the opening restrictor C has moved.

◇ Move the spring to the correct position.



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