MAINTENANCE INSTRUCTIONS

SIEGENIA®
brings spaces to life

PORTAL

ECO SLIDE
ECO SLIDE CO
Fold and slide
Lift-slide
Parallel slide
Parallel slide & tilt
ECO PASS threshold

Window systems
Door systems
Comfort systems

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General notes

1

1 General notes

1.1 Intended use

The proper maintenance of the SIEGENIA products

- FS (fold and slide)
- HS (lift-slide)
- PS/PSK (parallel-slide / parallel slide & tilt hardware)
- ECO PASS threshold

is described below. The adherence to all points of these maintenance instructions is an integral part of the intended use.

Keep these maintenance instructions.

1.2 Information and instruction obligation

Please be aware of your obligation to provide information and instructions to your customers, extending all the way to the end user!
All of our product information that is also directed at the building owner and/or end user, e.g. care and maintenance instructions, must in turn be passed on to the end user.
Should defects or damage arise from a failure to comply with our product information, we shall not be liable.

1.3 Windows or patio doors with sliding or slide-tilt hardware

For windows or patio doors with sliding or slide-tilt hardware, window or patio door sashes can be brought into a sliding position or into a tilt position that is limited by the stay finish by activating the handle.
In some special designs, the sashes can also be folded in a concertina-like fashion when sliding.

⚠ WARNING

Danger of injury and material damage due to improper opening and closing of sashes.

Improper opening and closing of sashes can lead to severe injuries and considerable material damage. There is a danger of crushing if you place your hand between the sash and the frame.

- Ensure that the sash will not bump against the frame, the opening restrictor (buffer) or another sash while reaching the completely opened or closed position.
- Ensure that the sash is guided by hand throughout the entire movement until the opening or closing positions are reached and led to the frame, to the opening restrictor (buffer) or another sash at a very low speed.
- When closing the sashes, never place your hand in the opening between the sash and the frame. Always proceed with caution.
- Children and people who are unable to assess the hazards must be kept away from areas of danger.
- Maximum reference speed of the closing edge: v ≤ 0.2 m/s

1.4 Notes on restrictions for use

Opened sashes of windows or patio doors as well as unlocked windows and patio doors when switched into ventilation positions (tilt position, for example) only achieve a shielding function. They do not fulfil the requirements of
• joint tightness
• watertightness
• sound absorption
• thermal protection
• burglar resistance

1.5 Improper use

Any use beyond or other than the intended use and fabrication of the products is regarded as misuse and can lead to hazardous situations.

⚠ WARNING

Danger of injury and material damage due to improper use

The misuse of the windows and patio doors can lead to hazardous situations.

- Positioning obstacles in the opening range between frames and windows or patio door sashes.
- The wilful attachment or negligent permitting of additional loads acting on window or patio door sashes.
- Deliberate or uncontrolled slamming or pressing the window or patio door sashes against the window reveal. This can result in the destruction of the hardware, frame materials or other individual components of the windows or patio doors.

1.6 Regular operation and use

Make sure to close and lock windows or window sashes if it is windy or if there is a draught. Draughts of wind are prevalent when windows and patio door sashes that are in an opening position open or close independently and in an uncontrolled manner due to air pressure or air suction.

NOTICE

A fixed opening position of window and patio door sashes can only be achieved with additional fixation hardware.

Windows and patio doors always represent a hazardous zone.

1.7 Maintenance, care and inspection

NOTICE

The hardware, windows and patio doors require specialist and systematic maintenance, care and inspection to guarantee the sustainable value, usability and safety. We therefore recommend the conclusion of a corresponding maintenance agreement with a specialist company.

The following maintenance work must be carried out at least once a year (twice a year in school or hotel buildings):

Check that all hardware components are secure and check for wear. If necessary, tighten the fixing screws and replace worn components.
Lubricate all moving parts and locking parts of the hardware and check that they are functioning properly.

1.8 Safety

⚠ WARNING

Danger of injury and material damage due to improperly performed maintenance work

Improper maintenance can lead to severe personal injury and material damage.

- Before commencing work, ensure that there is sufficient space for the installation work.
- Ensure that the installation site is clean and tidy. Loosely piled components or components and tools left lying around can cause accidents.
- Have a specialist company carry out any adjustment and replacement work on the hardware – especially in the area of the bottom hinge, bogie wheels and stays.
- Sashes may only be removed and fitted by a specialist company.

1.9 Preserving the surface quality

It is essential to observe the following points in order to preserve the surface quality of the hardware components permanently and prevent impairment:

1.9.1 Protection against corrosion

NOTICE

- Depending on the outside temperature, the relative air humidity of the indoor air and the installation location of the sliding element, condensation may temporarily form on the inside aluminium rails. This is particularly encouraged by restricted air circulation due to a deep reveal, curtains or due to an unfavourable arrangement of the radiator or similar objects.
- In a normal indoor environment – this means when no condensation is formed on the hardware components or occasional condensation can quickly dry off – the electrolytically applied zinc coatings of the hardware are not attacked.
- If condensation does not dry, it can lead to corrosion on the surface of the hardware components.
- Ventilate the hardware and folding areas, in particular, during the storage and construction phase in such a way that they are neither exposed to direct moisture nor at risk of condensation forming.
- Ensure that permanently humid indoor air is unable to condensate in the bearing and folding areas.

NOTICE

- Practise impact ventilation to prevent condensation from forming by opening all windows for approx. 15 minutes several times a day, especially during the construction phase.
- Ensure adequate ventilation – even when you are not there.
- In case of complex construction projects, create a ventilation plan.

1.9.2 Protection against contamination

Keep the hardware free from deposits and dirt. During the construction phase, use water to remove any contamination with plaster, mortar or similar materials before they become hard.

1.9.3 Protection against aggressive, acidic cleaning agents

Only clean the hardware with mild, diluted pH-neutral cleaning agents.

1.9.4 Protection against surface treatment materials

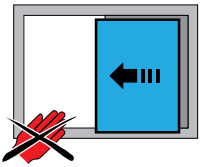
When treating surfaces of the windows and patio doors – e.g. when painting or glazing – remove all hardware components and protect them from any stains which may result from this treatment.

1.9.5 Cleaning intervals in regions with increased wear due to environmental influences

In regions subject to high levels of environmental influences such as dust, sand and salt, clean the hardware every six months with grease/anticorrosive agent.

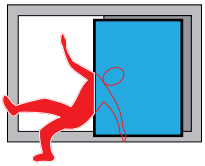
2 ES – ECO SLIDE, ECO SLIDE CO

2.1 Safety notes



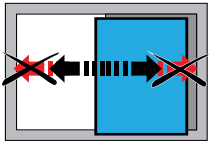
Parts of the body may get caught in the opening gap between sash and frame, resulting in injury

- When closing windows and patio doors, never place your hand between the sash and the frame and always proceed with caution
- Children and people who are unable to assess the hazards must be kept away from areas of danger



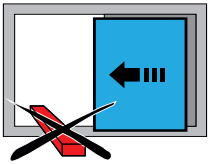
Risk of injury from falling out of open windows and patio doors

- Proceed with caution in the vicinity of opened windows and patio doors
- Children and people who are unable to assess the hazards must be kept away from areas of danger



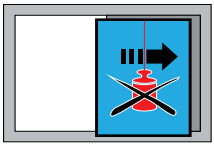
Pressing the sash against the edge of the opening (window reveal) and uncontrolled opening and closing of the sash may result in injury or material damage

- Do not push the sash against the edge of the opening (window reveal)
- Ensure that the sash is slowly guided by hand throughout the entire movement until the opening or closing positions are reached



Placing objects in the opening gap between the sash and the frame may result in injury or material damage

- Do not place objects in the opening gap between the sash and the frame



Additional load on the sashes may result in injury or material damage

- Do not subject the sash to additional loads

NOTICE

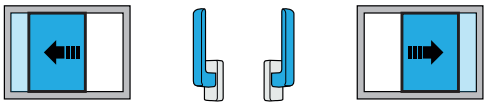
- Within the safety- related areas, all hardware components must be visually inspected to ensure that they are in perfect condition and function properly. Bearings of the rollers and guiding rolls must always be immaculately clean and run smoothly.
- If the lift-and-slide element has not been opened for a relatively long period of time, it may become stiff. Therefore, do not open stiff sashes or hardware elements using a jerking motion or force; instead, determine and rectify the cause of the stiffness.
- Lubricate hardware components regularly according to schedule on page 23.
- Check the running and guiding rail for contamination regularly and clean if necessary.
- Close the lift-and-slide elements and keep closed if it is windy or raining.
- Spray the outside moving hardware components all over with a multi-purpose oil e.g. WD 40 or an equivalent oil.
- Grease or oil all locking bolts using an acid-free and resin-free grease or oil.
- Clean the lift-and-slide element using mild, diluted pH-neutral cleaning agents only.
- Never use aggressive, acidic or abrasive cleaning agents as they could damage the corrosion protection of the hardware components.
- We explicitly wish to point out that the inside or outside hardware components must be cleaned at regular intervals; in particular, the guide rail and running rail must be kept clean to ensure trouble-free use.

2.2 Disclaimer of liability

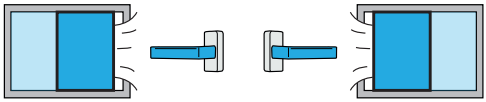
We assume no liability for malfunctioning of or damage to the hardware, or the fitted lift-and-slide elements, if:

- Assembly is not undertaken in accordance with our assembly instructions and generally recognised technical standards and regulations.
- The hardware is damaged through the application of force, misuse or external influences.
- Unauthorised modifications have been made to the hardware.
- Hardware components are also used which originate from other ranges or other producers that have not been approved; this also applies to combinations of hardware component with different surface treatments that have not been approved.
- The hardware has not been serviced at least once a year in accordance with our maintenance instructions.
- The end customer has not been informed of these maintenance instructions and given appropriate instruction.

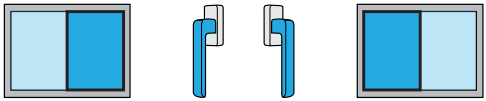
2.3 Operating instructions



Sliding-opening position of the sash



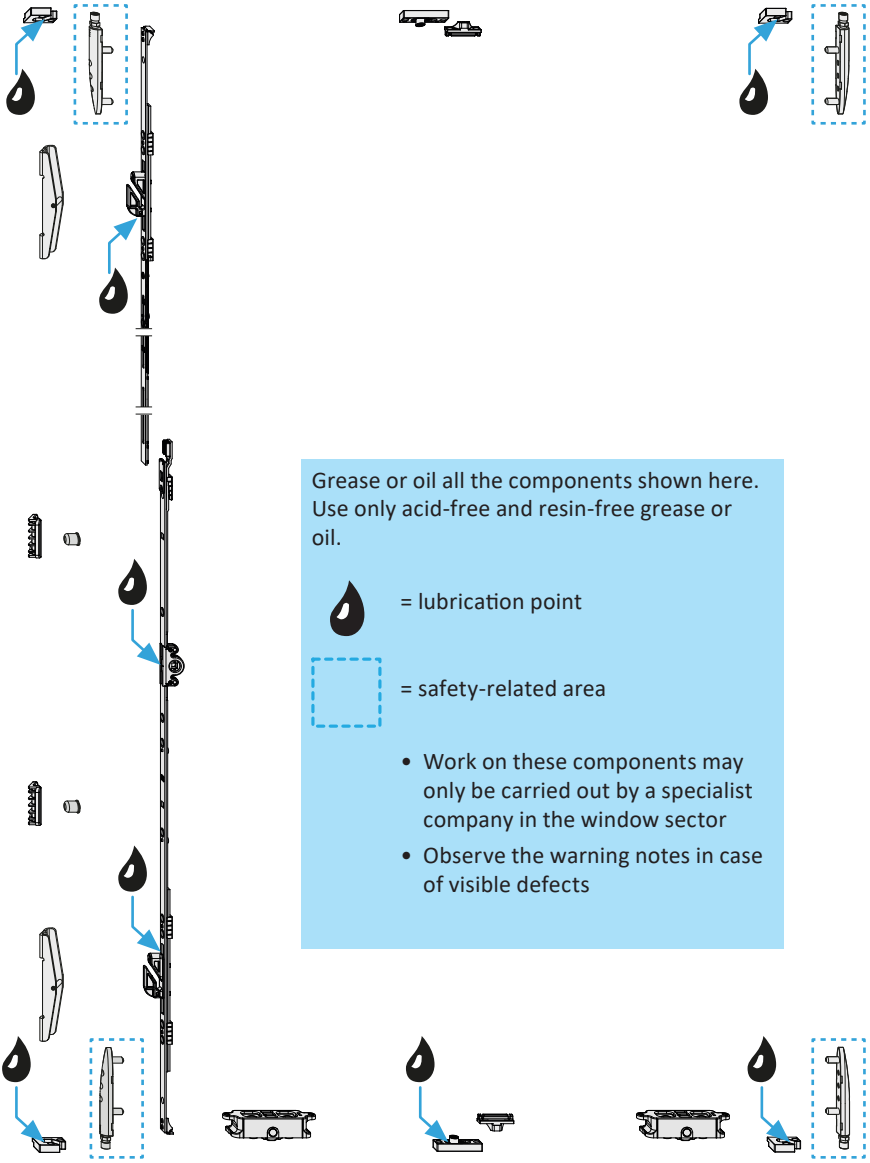
Ventilation gap position of the sash



Closing position of the sash

2.4 Service notes

2.4.1 Lubrication of the ECO SLIDE hardware components



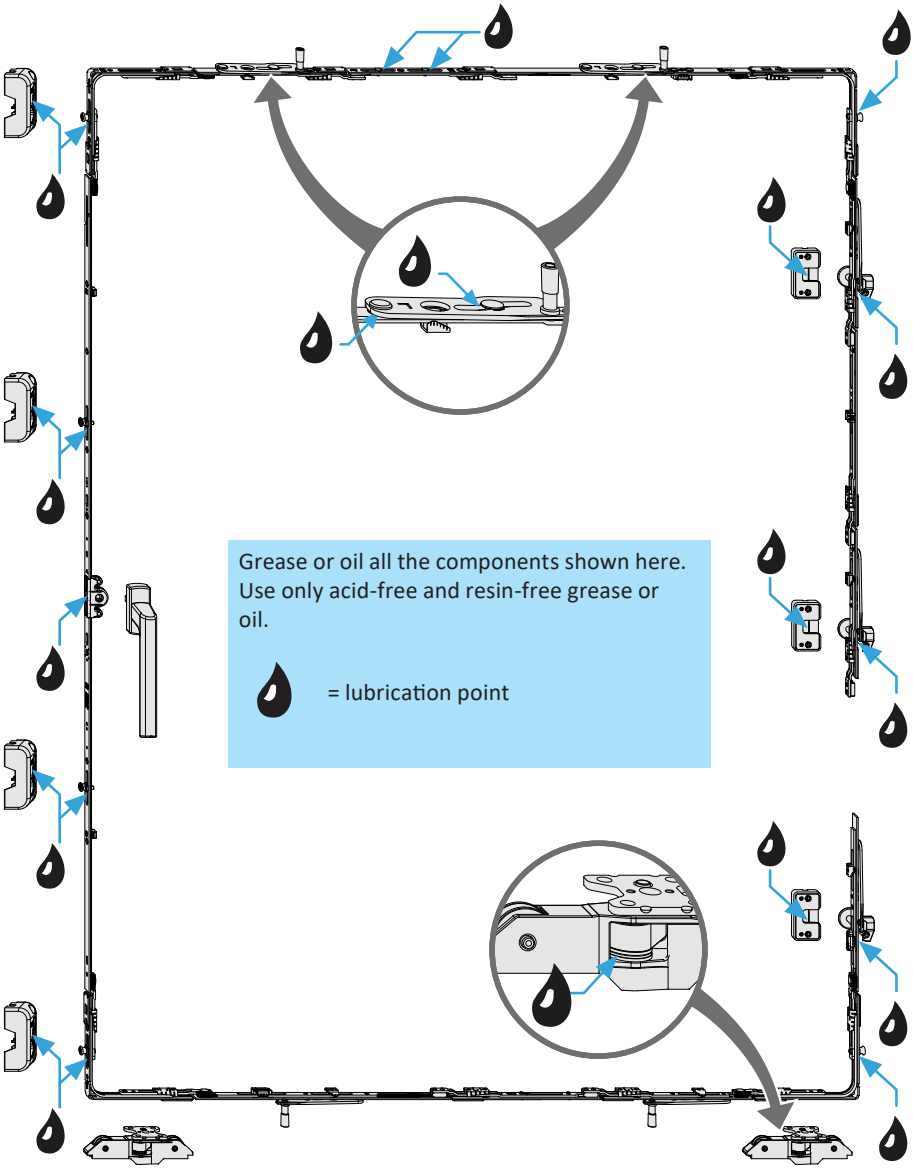
Grease or oil all the components shown here. Use only acid-free and resin-free grease or oil.

= lubrication point

= safety-related area

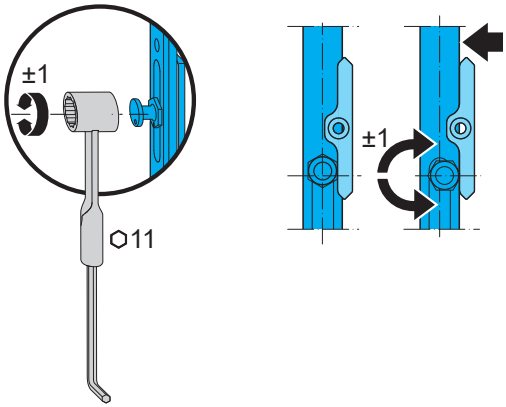
- Work on these components may only be carried out by a specialist company in the window sector
- Observe the warning notes in case of visible defects

2.4.2 Lubrication of the ECO SLIDE CO hardware components

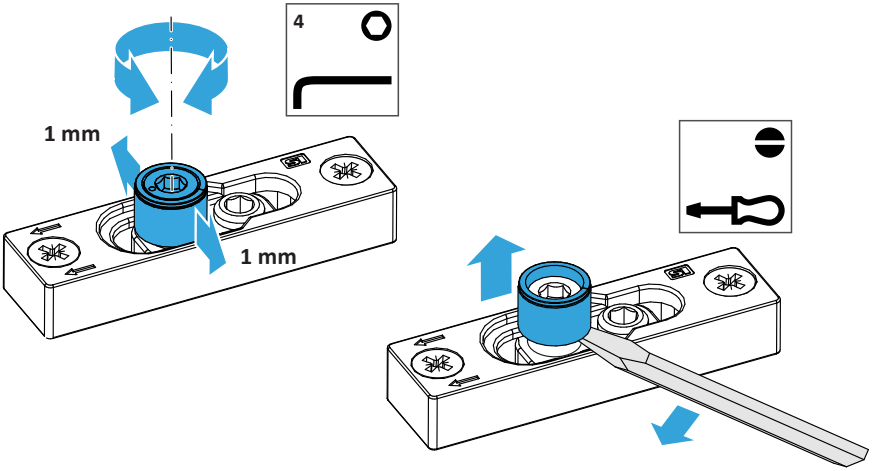


2.4.3 Adjustment of adjustable hardware components

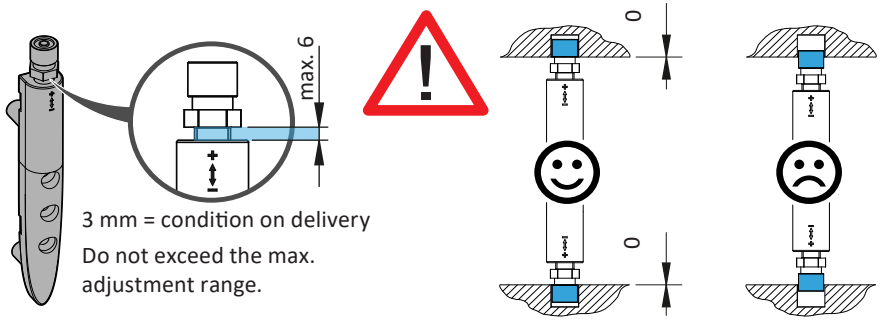
Adjust the S-ES locking cam



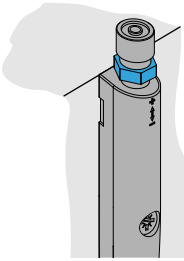
Adjust the frame part MV

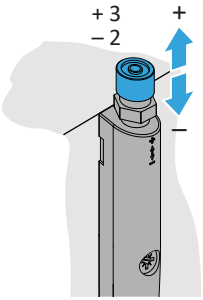


Adjust the guiding elements



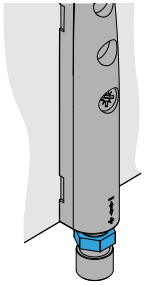
Top guiding elements

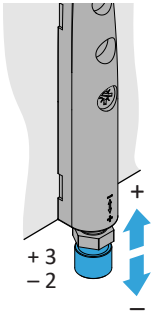






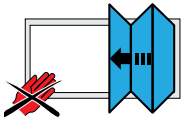
Bottom guiding elements



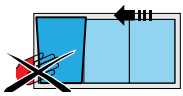


3 FS – fold and slide

3.1 Safety notes

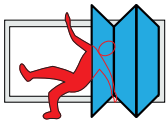


Parts of the body may get caught in the opening gap between sash and frame, resulting in injury



- When closing windows and patio doors, never place your hand between the sash and the frame and always proceed with caution
- Children and people who are unable to assess the hazards must be kept away from areas of danger

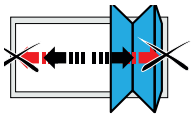
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Risk of injury from falling out of open windows and patio doors

- Proceed with caution in the vicinity of opened windows and patio doors
- Children and people who are unable to assess the hazards must be kept away from areas of danger

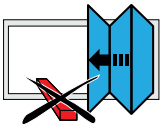
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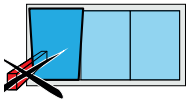
Pressing the sash against the edge of the opening (window reveal) and uncontrolled opening and closing of the sash may result in injury or material damage

- Do not push the sash against the edge of the opening (window reveal)
- Ensure that the sash is slowly guided by hand throughout the entire movement until the opening or closing positions are reached

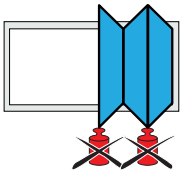
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Placing objects in the opening gap between the sash and the frame may result in injury or material damage

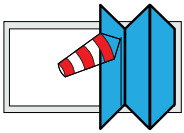


- Do not place objects in the opening gap between the sash and the frame



Additional load on the sashes may result in injury or material damage

- Do not subject the sash to additional loads



Risk of injury and material damage due to wind

- Do not allow open sashes to be blown around by the wind
- Make sure to close and lock windows and patio door sashes if it is windy or if there is a draught

NOTICE

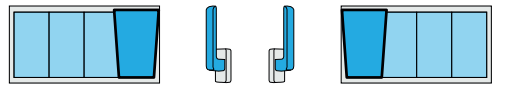
- Within the safety- related areas, all hardware components must be visually inspected to ensure that they are in perfect condition and function properly. Bearings of the rollers and guiding rolls must always be immaculately clean and run smoothly.
- If the fold-and-slide element has not been opened for a relatively long period of time, it may become stiff. Therefore, do not open stiff sashes or hardware elements using a jerking motion or force; instead, determine and rectify the cause of the stiffness.
- Lubricate hardware components regularly according to schedule on page 13.
- Check the running and guiding rail for contamination regularly and clean if necessary.
- Close the fold-and-slide elements and keep closed if it is windy or raining.
- Spray the outside moving hardware components all over with a multi-purpose oil e.g. WD 40 or an equivalent oil.
- Clean the fold-and-slide element using mild, diluted pH-neutral cleaning agents only.
- Never use aggressive, acidic or abrasive cleaning agents as they could damage the corrosion protection of the hardware components.
- We explicitly wish to point out that the inside or outside hardware components must be cleaned at regular intervals; in particular, the guide rail and running rail must be kept clean to ensure trouble-free use.

3.2 Disclaimer of liability

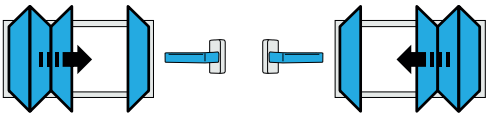
We assume no liability for malfunctioning of or damage to the hardware, or the fitted fold-and-slide elements, if:

- Assembly is not undertaken in accordance with our assembly instructions and generally recognised technical standards and regulations.
- The hardware is damaged through the application of force, misuse or external influences.
- Unauthorised modifications have been made to the hardware.
- Hardware components are also used which originate from other ranges or other producers that have not been approved; this also applies to combinations of hardware component with different surface treatments that have not been approved.
- The hardware has not been serviced at least once a year in accordance with our maintenance instructions.
- The end customer has not been informed of these maintenance instructions and given appropriate instruction.

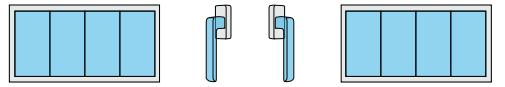
3.3 Operating instructions



Tilt opening position of the sash



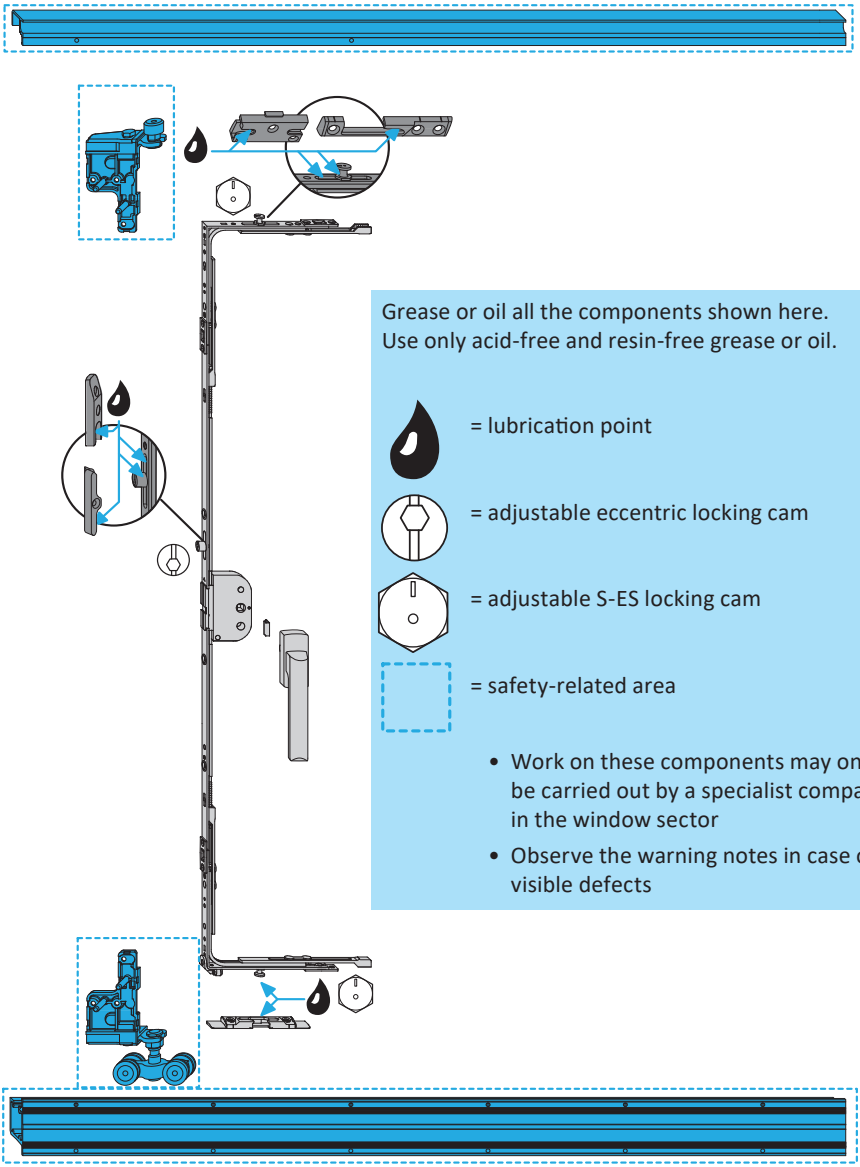
Folding-sliding and turn-opening position of the sash



Closing position of the sash

3.4 Service notes

3.4.1 Lubrication of the hardware components



Grease or oil all the components shown here.
Use only acid-free and resin-free grease or oil.

= lubrication point

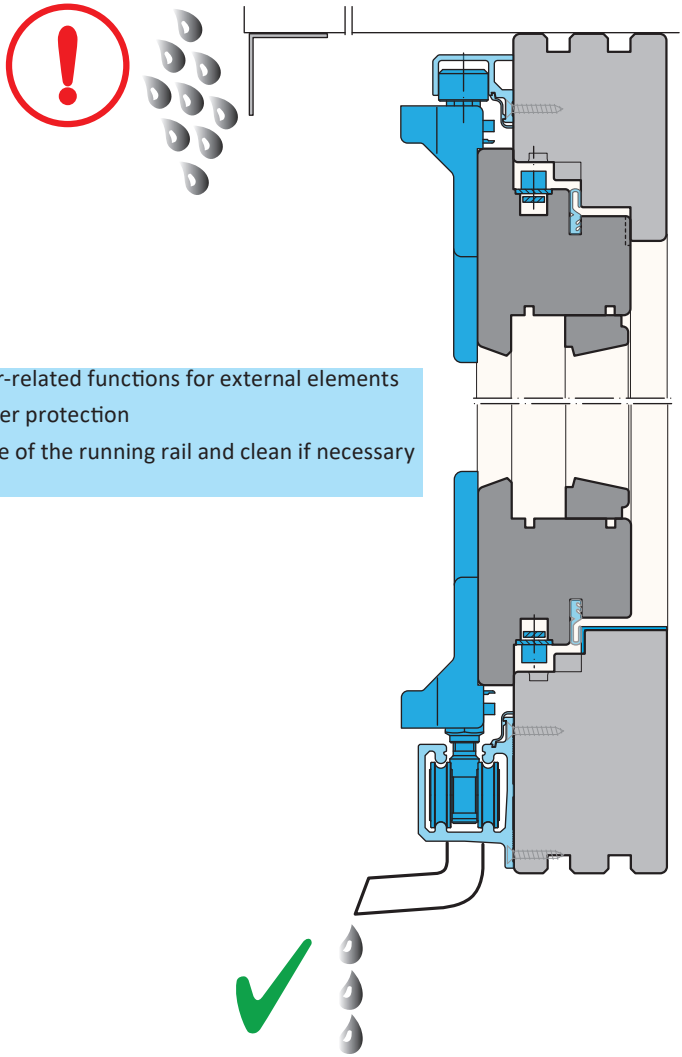
= adjustable eccentric locking cam

= adjustable S-ES locking cam

= safety-related area

- Work on these components may only be carried out by a specialist company in the window sector
- Observe the warning notes in case of visible defects

3.4.2 Checking the weather protection

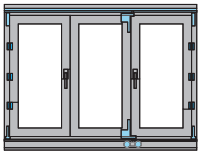


- Observe the weather-related functions for external elements
- Check the top weather protection
- Check water drainage of the running rail and clean if necessary

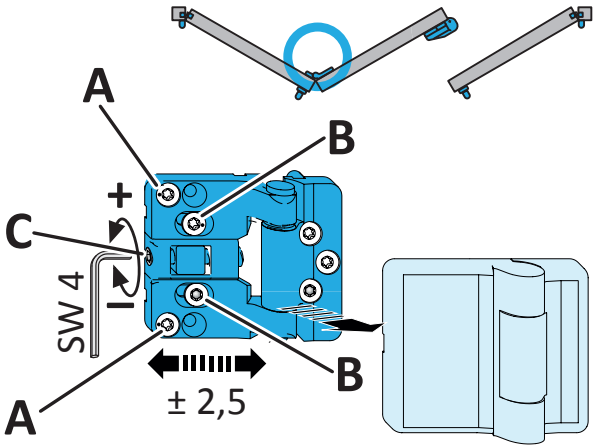
3.4.3 Adjustment of adjustable hardware components

Adjustments may only be carried out by a specialist company in the window sector!

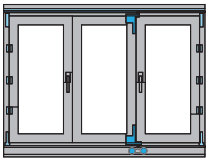
Adjusting the sash hinges

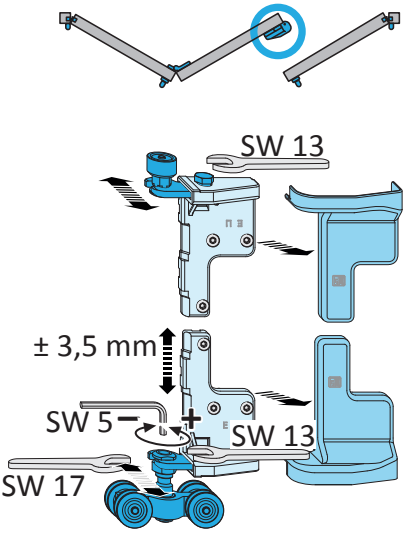


1. Remove the cover cap
2. Unscrew screws **A**
3. Loosen screws **B**
4. Adjust screw **C** into the desired horizontal position using an Allen key SW 4

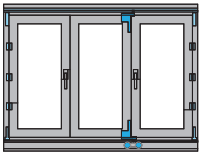


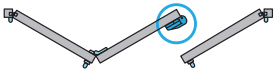
Adjusting the FS bottom hinge

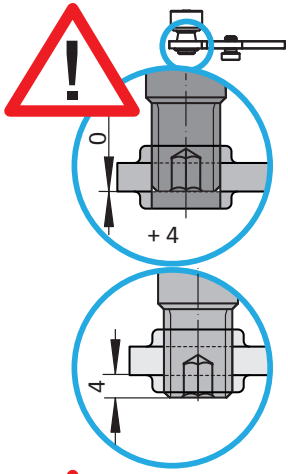


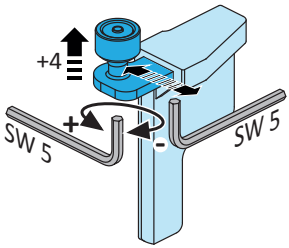


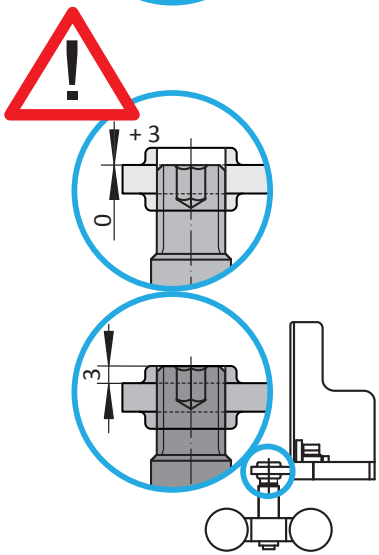
Adjusting the FS PLUS bottom hinge

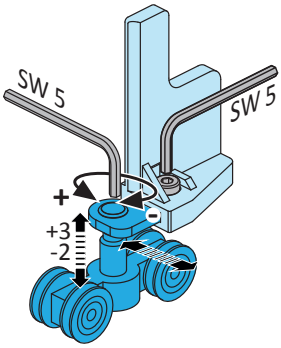






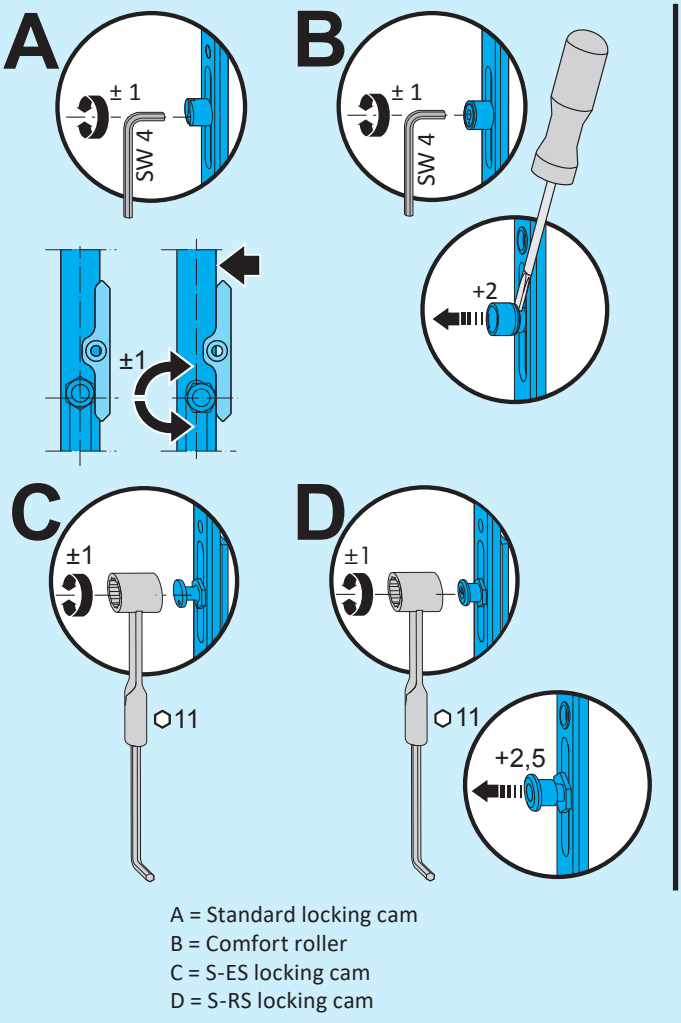






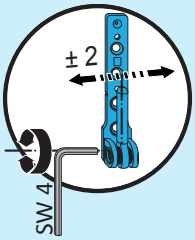
Adjusting basic hardware

Adjust the locking cam:

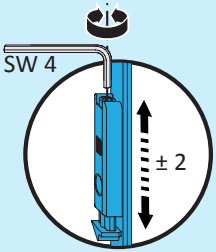


A = Standard locking cam
B = Comfort roller
C = S-ES locking cam
D = S-RS locking cam

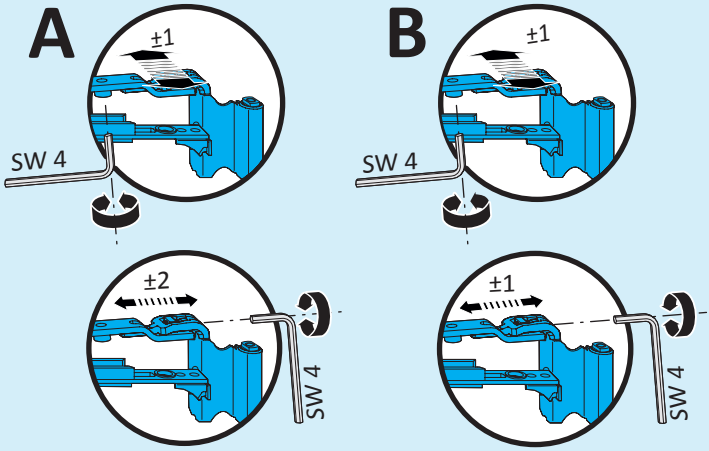
Adjust existing bottom hinge:



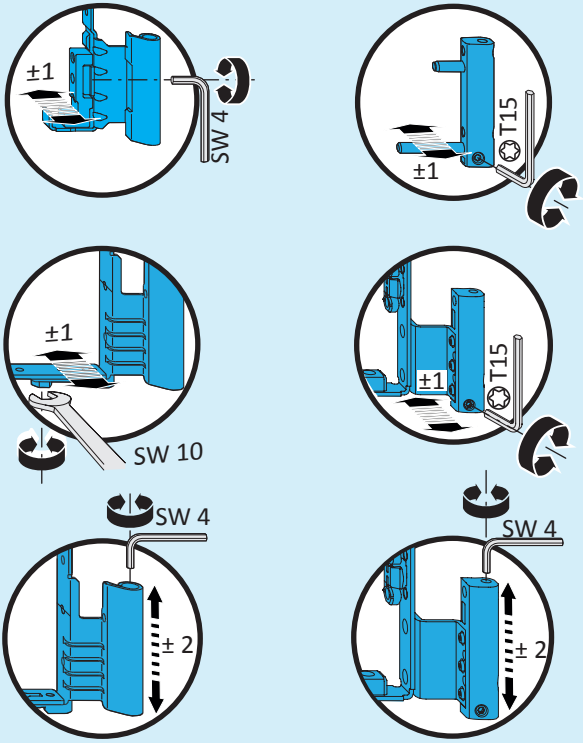
Adjust snapper, if present:



Adjust any existing stays:



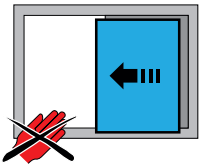
Adjust any existing rebate corner hinges:



A = FAVORIT
B = TITAN

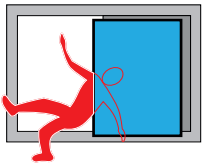
4 HS – lift-slide

4.1 Safety notes



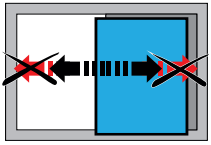
Parts of the body may get caught in the opening gap between sash and frame, resulting in injury

- When closing windows and patio doors, never place your hand between the sash and the frame and always proceed with caution
- Children and people who are unable to assess the hazards must be kept away from areas of danger



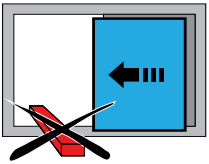
Risk of injury from falling out of open windows and patio doors

- Proceed with caution in the vicinity of opened windows and patio doors
- Children and people who are unable to assess the hazards must be kept away from areas of danger



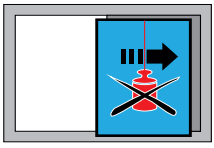
Pressing the sash against the edge of the opening (window reveal) and uncontrolled opening and closing of the sash may result in injury or material damage

- Do not push the sash against the edge of the opening (window reveal)
- Ensure that the sash is slowly guided by hand throughout the entire movement until the opening or closing positions are reached



Placing objects in the opening gap between the sash and the frame may result in injury or material damage

- Do not place objects in the opening gap between the sash and the frame



Additional load on the sashes may result in injury or material damage

- Do not subject the sash to additional loads

NOTICE

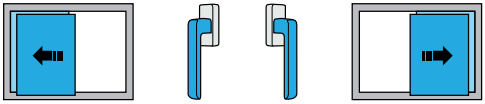
- Within the safety- related areas, all hardware components must be visually inspected to ensure that they are in perfect condition and function properly. Bearings of the rollers and guiding rolls must always be immaculately clean and run smoothly.
- If the lift-and-slide element has not been opened for a relatively long period of time, it may become stiff. Therefore, do not open stiff sashes or hardware elements using a jerking motion or force; instead, determine and rectify the cause of the stiffness.
- Lubricate hardware components regularly according to schedule on page 23.
- Check the running and guiding rail for contamination regularly and clean if necessary.
- Close the lift-and-slide elements and keep closed if it is windy or raining.
- Spray the outside moving hardware components all over with a multi-purpose oil e.g. WD 40 or an equivalent oil.
- Grease or oil all locking bolts using an acid-free and resin-free grease or oil.
- Clean the lift-and-slide element using mild, diluted pH-neutral cleaning agents only.
- Never use aggressive, acidic or abrasive cleaning agents as they could damage the corrosion protection of the hardware components.
- We explicitly wish to point out that the inside or outside hardware components must be cleaned at regular intervals; in particular, the guide rail and running rail must be kept clean to ensure trouble-free use.

4.2 Disclaimer of liability

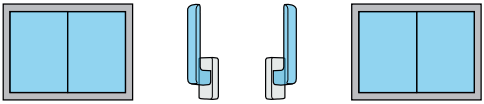
We assume no liability for malfunctioning of or damage to the hardware, or the fitted lift-and-slide elements, if:

- Assembly is not undertaken in accordance with our assembly instructions and generally recognised technical standards and regulations.
- The hardware is damaged through the application of force, misuse or external influences.
- Unauthorised modifications have been made to the hardware.
- Hardware components are also used which originate from other ranges or other producers that have not been approved; this also applies to combinations of hardware component with different surface treatments that have not been approved.
- The hardware has not been serviced at least once a year in accordance with our maintenance instructions.
- The end customer has not been informed of these maintenance instructions and given appropriate instruction.

4.3 Operating instructions



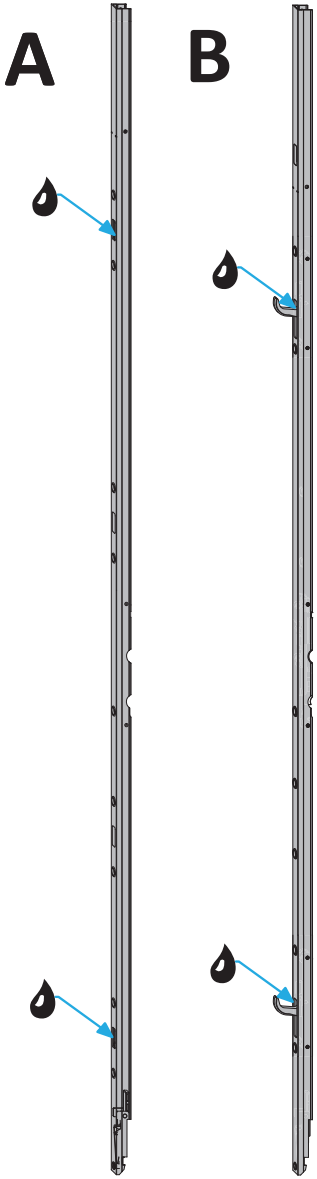
Sliding-opening position of the sash



Closing position of the sash

4.4 Service notes

4.4.1 Lubrication of the gear parts



Grease or oil all the components shown here.
Use only acid-free and resin-free grease or oil.

= lubrication point

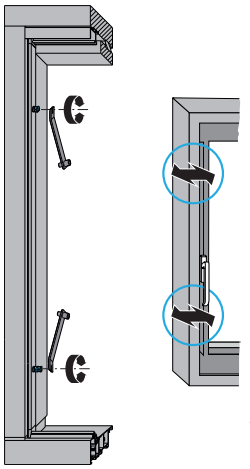
- Work on these components may only be carried out by a specialist company in the window sector
- Observe the warning notes in case of visible defects

A = latch bolt gear
B = hook bolt gear

4.4.2 Adjustment of adjustable hardware components

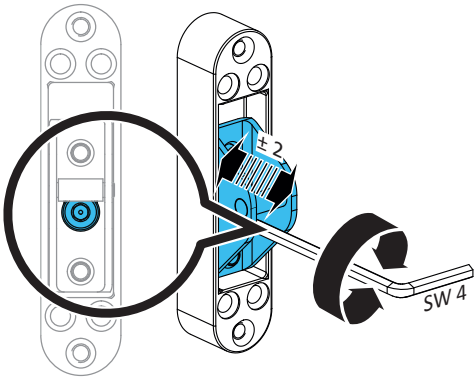
Adjustments may only be carried out by a specialist company in the window sector!

Latch bolt gear: adjust vertical sealing pressure

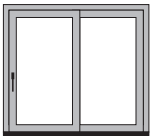


timber profiles only!

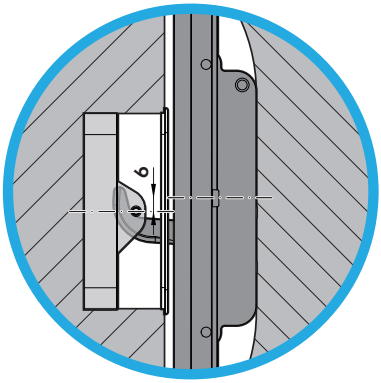
Hook bolt gear: adjust vertical sealing pressure

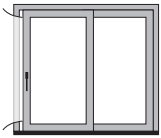


Hook bolt gear: sash adjustments

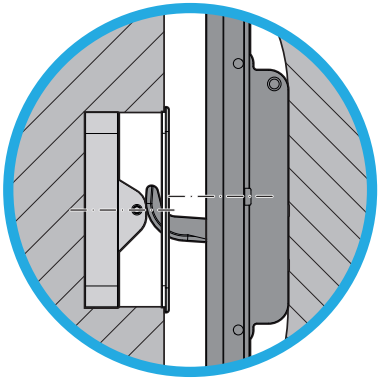


locking position



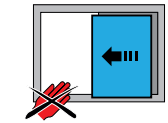


ventilation gap position



5 PS – parallel-slide, PSK – parallel slide & tilt

5.1 Safety notes



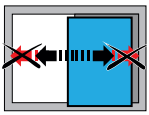
Parts of the body may get caught in the opening gap between sash and frame, resulting in injury

- When closing windows and patio doors, never place your hand between the sash and the frame and always proceed with caution
- Children and people who are unable to assess the hazards must be kept away from areas of danger



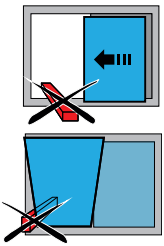
Risk of injury from falling out of open windows and patio doors

- Proceed with caution in the vicinity of opened windows and patio doors
- Children and people who are unable to assess the hazards must be kept away from areas of danger



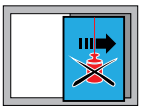
Pressing the sash against the edge of the opening (window reveal) and uncontrolled opening and closing of the sash may result in injury or material damage

- Do not push the sash against the edge of the opening (window reveal)
- Ensure that the sash is slowly guided by hand throughout the entire movement until the opening or closing positions are reached



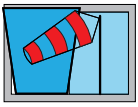
Placing objects in the opening gap between the sash and the frame may result in injury or material damage

- Do not place objects in the opening gap between the sash and the frame



Additional load on the sashes may result in injury or material damage

- Do not subject the sash to additional loads



Risk of injury and material damage due to wind

- Do not allow open sashes to be blown around by the wind
- Make sure to close and lock windows and patio door sashes if it is windy or if there is a draught

NOTICE

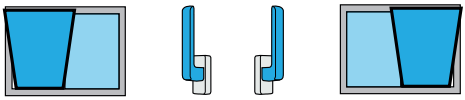
- Within the safety- related areas, all hardware components must be visually inspected to ensure that they are in perfect condition and function properly. Bearings of the rollers and guiding rolls must always be immaculately clean and run smoothly.
- If the parallel-slide element has not been opened for a relatively long period of time, it may become stiff. Therefore, do not open stiff sashes or hardware elements using a jerking motion or force; instead, determine and rectify the cause of the stiffness.
- Lubricate hardware components regularly according to schedule on pages 31, 32, 33.
- Check the running and guiding rail for contamination regularly and clean if necessary.
- Close the parallel-slide elements and keep closed if it is windy or raining.
- Spray the outside moving hardware components all over with a multi-purpose oil e.g. WD 40 or an equivalent oil.
- Grease or oil all locking bolts using an acid-free and resin-free grease or oil.
- Clean the parallel-slide element using mild, diluted pH-neutral cleaning agents only.
- Never use aggressive, acidic or abrasive cleaning agents as they could damage the corrosion protection of the hardware components.
- We explicitly wish to point out that the inside or outside hardware components must be cleaned at regular intervals; in particular, the guide rail and running rail must be kept clean to ensure trouble-free use.

5.2 Disclaimer of liability

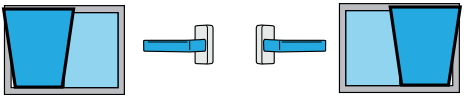
We assume no liability for malfunctioning of or damage to the hardware, or the fitted parallel-slide elements, if:

- Assembly is not undertaken in accordance with our assembly instructions and generally recognised technical standards and regulations.
- The hardware is damaged through the application of force, misuse or external influences.
- Unauthorised modifications have been made to the hardware.
- Hardware components are also used which originate from other ranges or other producers that have not been approved; this also applies to combinations of hardware component with different surface treatments that have not been approved.
- The hardware has not been serviced at least once a year in accordance with our maintenance instructions.
- The end customer has not been informed of these maintenance instructions and given appropriate instruction.

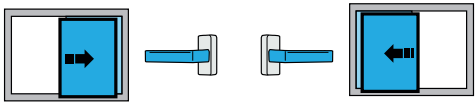
5.3 Operating instructions



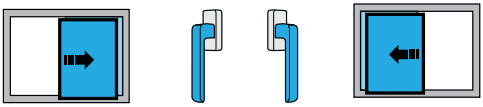
PSK:
tilt opening position of the sash



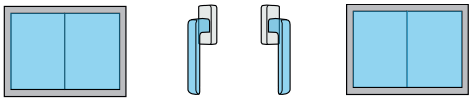
PSK-Z:
tilt opening position of the sash



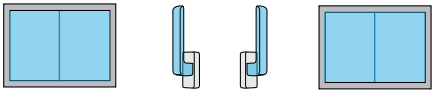
PS/PSK:
sliding position of the sash



PSK-Z:
sliding position of the sash



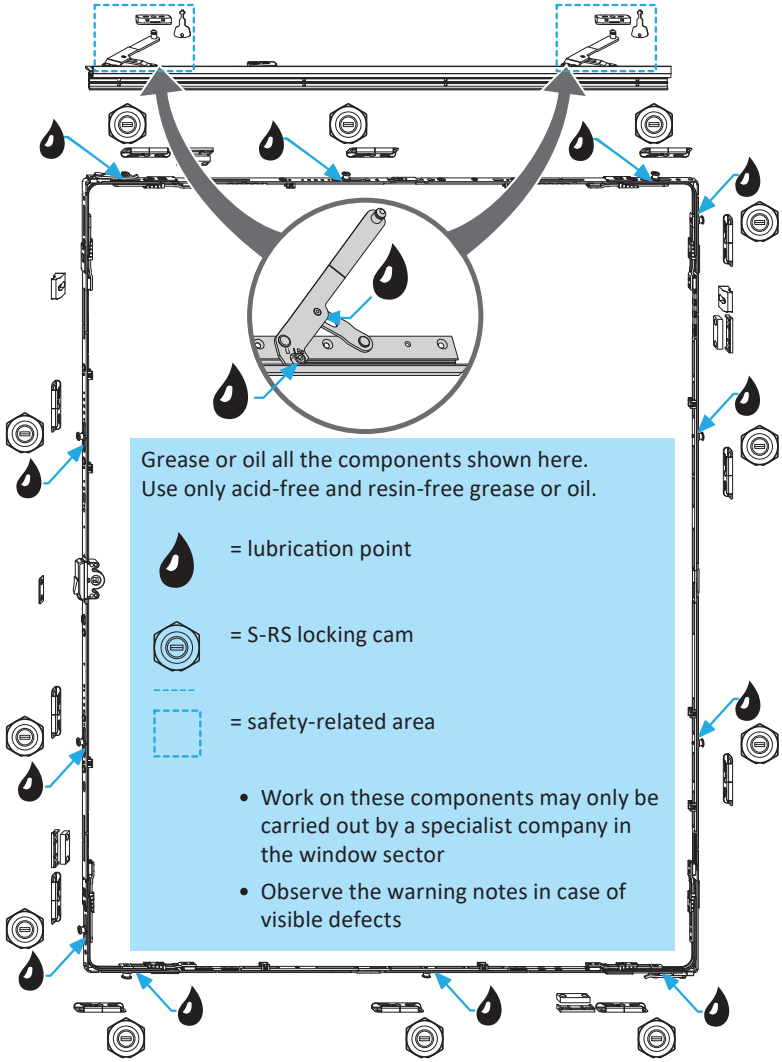
PS/PSK:
closing position of the sash



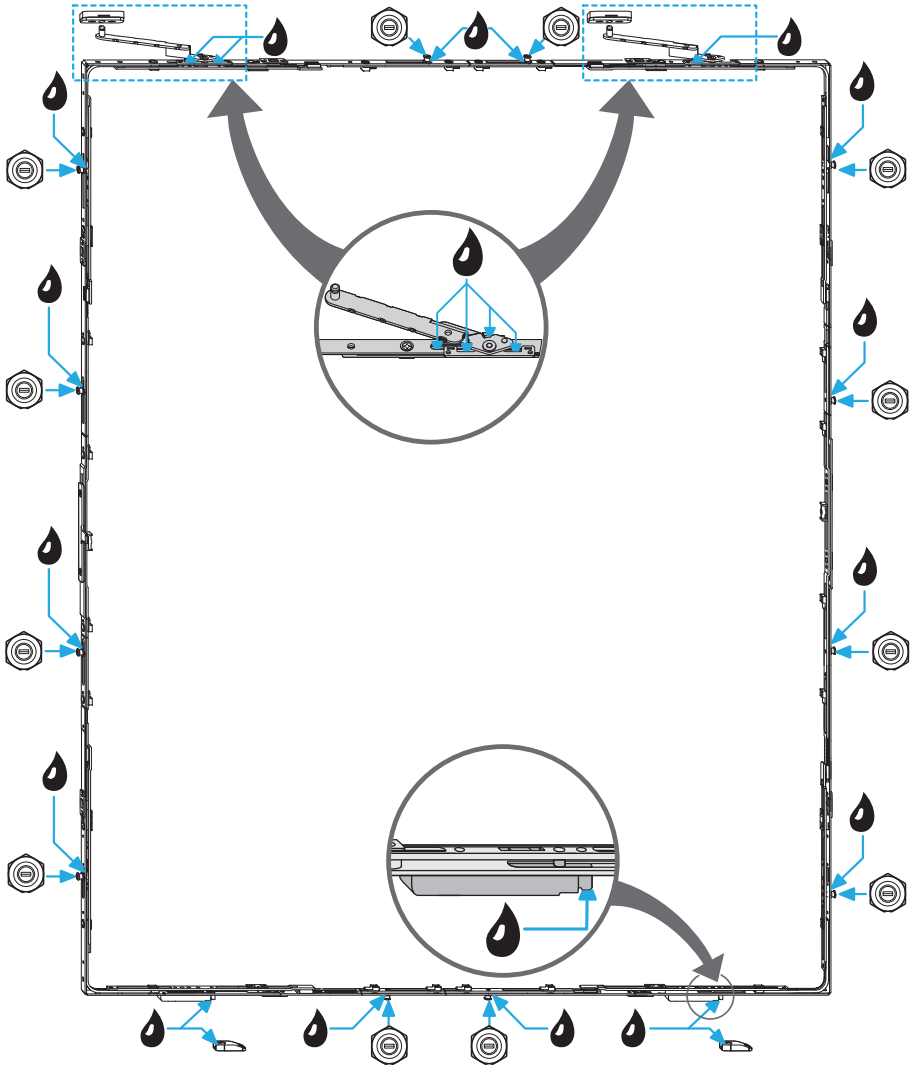
PSK-Z:
closing position of the sash

5.4 Service notes

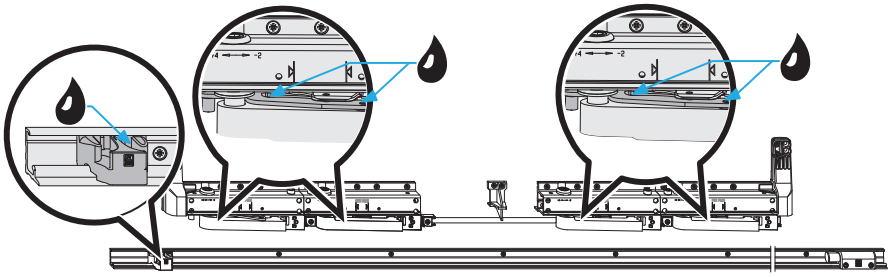
5.4.1 Lubrication of the PS/PSK*hardware components



5.4.2 Lubrication of the PSK-Z* hardware components



5.4.3 Lubrication of the bogie wheels*

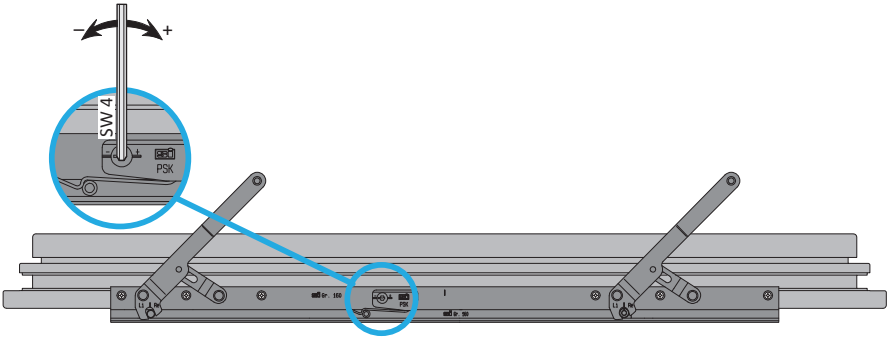


*The figures are used as examples. The hardware provided may differ.

5.4.4 Adjustment of adjustable hardware components

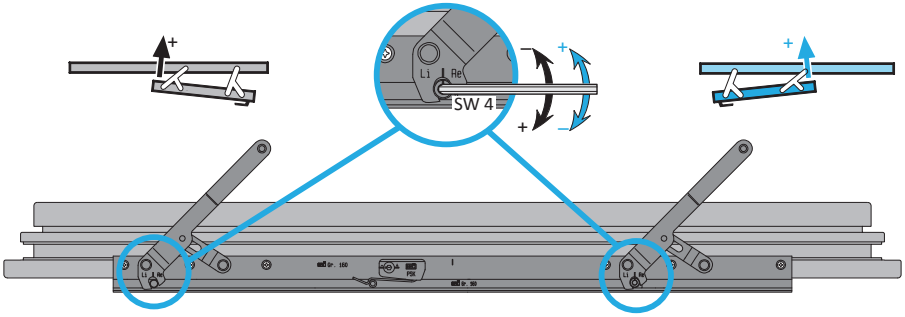
Adjustments may only be carried out by a specialist company in the window sector!

Tilt stay: adjustment of the stop action



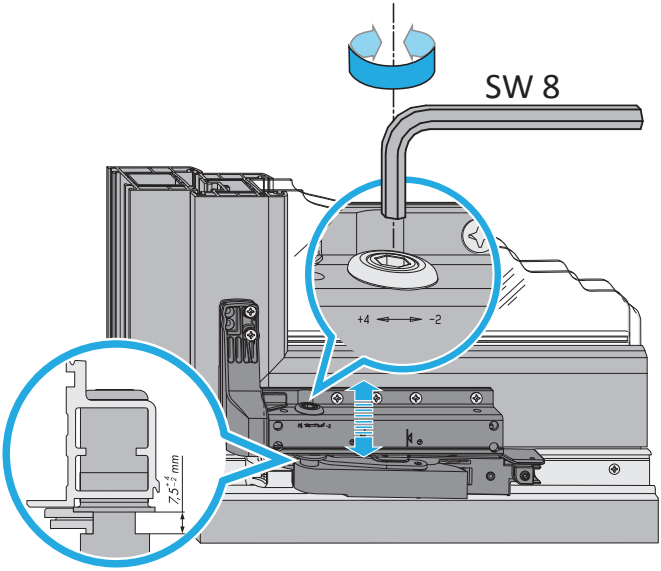
Check the stop action and readjust if necessary. The maximum adjustment range must not be exceeded

Tilt stay: adjustment of the preliminary pressure



Check the preliminary pressure and readjust if necessary. The maximum adjustment range must not be exceeded.

Bogie wheels: adjusting the height of the sash

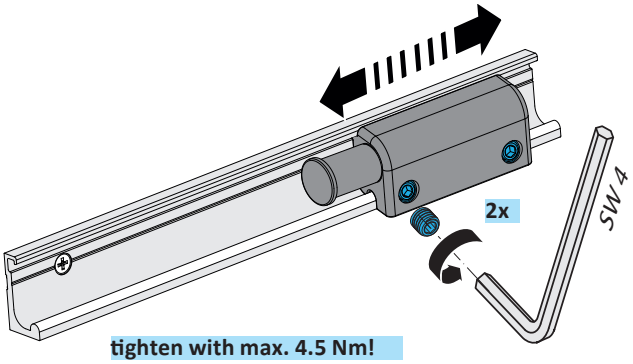


The adjustment screw is self-locking.

Bogie wheels: adjusting the inclination of the sash

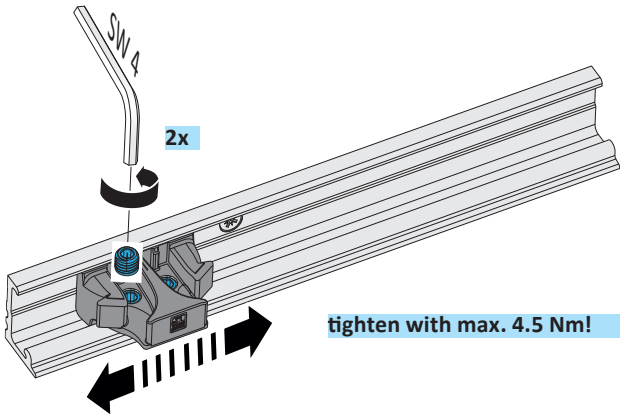
Loosen the head cap screws. Slide the locking part sideways. Tighten the head cap screws again (max. 4.5 Nm).

Bogie wheels: offsetting the stop for the sash



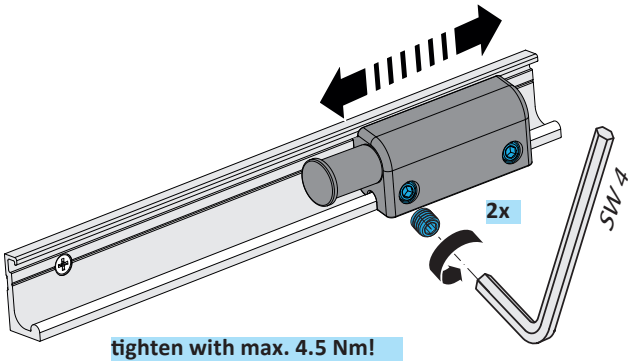
Loosen the head cap screws. Slide the stop sideways. Tighten the head cap screws again (max. 4.5 Nm).

Bogie wheels: centring the sash inlet



Loosen the head cap screws. Slide the locking part sideways. Tighten the head cap screws again (max. 4.5 Nm).

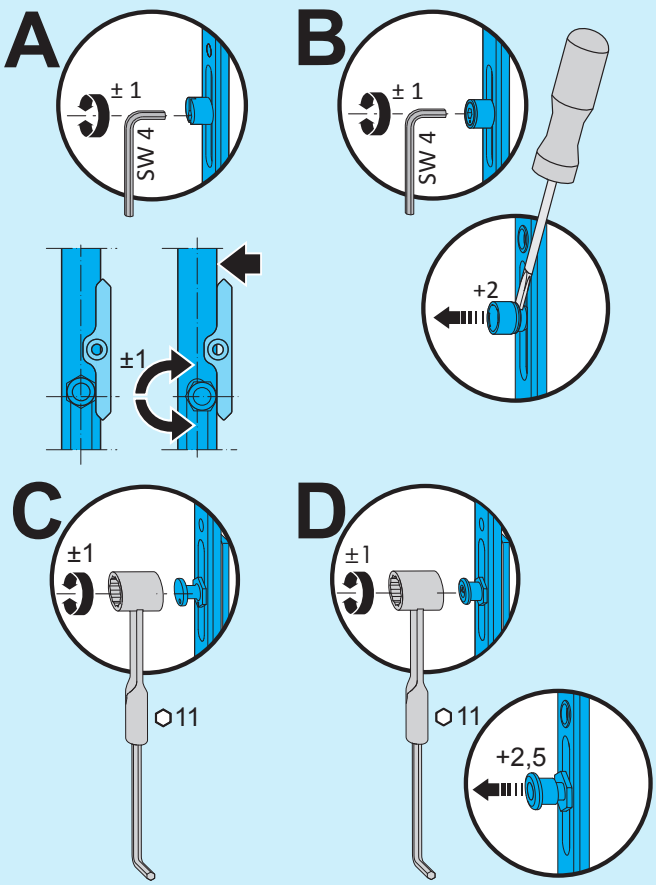
Bogie wheels: offsetting the stop for the sash



Loosen the head cap screws. Slide the stop sideways. Tighten the head cap screws again (max. 4.5 Nm).

Adjusting basic hardware

Adjust the locking cam:



A = Standard locking cam
B = Comfort roller
C = S-ES locking cam
D = S-RS locking cam

ECO PASS threshold

6 ECO PASS threshold

6.1 Cleaning and maintenance

The PVC surfaces of the threshold and the sashes and frame elements must be cleaned using a diluted PH-neutral detergent solution only.

The recommended dosage is 3 ml of cleaner to 5 litres of water. Most contamination can be removed with this detergent solution.

Leave the cleaning agent to work for a maximum of 10 minutes. After cleaning, always rinse the surface with fresh water.

The following cleaners and substances will damage the PVC:

- solvent-based cleaners
- chlorine-based cleaners
- acetone-based cleaners or acetone
- ester-based cleaners
- abrasive cleaners or scouring agents
- chemicals such as cellulose thinners
- white spirit, alcohol or similar agents
- aids such as wire wool, scourers or scouring pads



The use of cleaning agents containing citrus, orange or mint extracts will result in discolouration of the PVC parts!

Notice

We recommend **Cosmofen 10 Cosmo CL-300-120** as another cleaner for the PVC profiles of the threshold.

We assume no liability for defects/damage caused by the use of unsuitable cleaning agents.

Additional information on cleaning can be found in the information sheet "Cleaning and maintenance of PVC windows" from the German Association for the Quality of PVC Window Profile Systems (Gütegemeinschaft Kunststoff-Fensterprofilsysteme e.V.):

https://www.gkfp.de/fileadmin/user_upload/Publikationen/Technische-Leitfaeden-Merkblaetter/MB_ReiniPflege_EN.pdf

Hand this cleaning information to the end user. Have the recipient confirm that they have received the information.

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