QFORT®



Instructions for use and maintenance for PVC and Aluminum

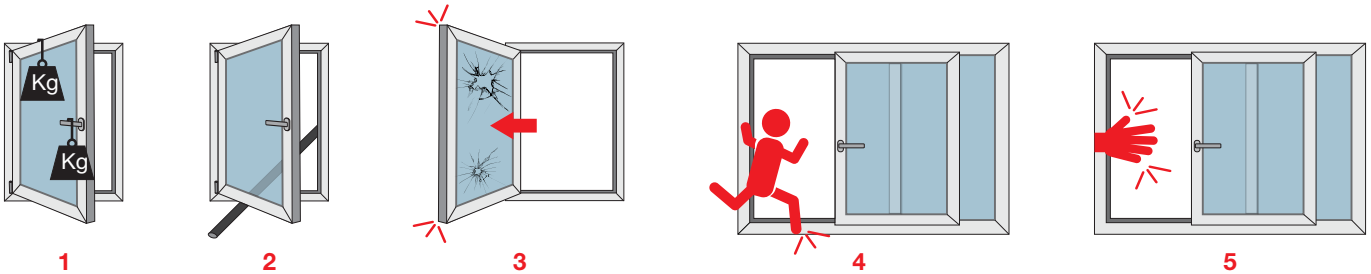
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PRECAUTIONS

- Only use windows and doors in accordance with the instructions for use.
- **Caution:** Risk of falling during opening, closing, cleaning and maintenance operations. Do not lean out the window!
- Be careful near windows and doors that open! Keep away from children and other people who are not able to properly assess dangerous situations.
- The solid structure of our windows and doors makes them much heavier. Inattentive or sudden movements can be dangerous! Make sure that there are no people, animals, furniture, curtains or other objects in the opening radius of the window.
- When opening and closing doors and windows, be careful not to place your hands or other body parts between the frame and the sash to avoid the risk of crushing.
- When closing balcony doors, sliding doors, make sure that no other objects are found to prevent the sash from lowering, and be careful not to rest your hands or other body parts between the sash and the frame.
- In high wind conditions, open and close the windows carefully!
- Depending on the type of installation, evaluate the need to use a stop for entrance doors with outward opening, to prevent sudden opening or detachment of the hinges when there is strong wind.
- Always close the windows slightly by positioning the handle correctly in the fully closed position.
- Make sure that, in high wind conditions, the doors and windows are closed by bringing the handle to the fully closed position. Keep an eye on open windows, they can cause drafts! Air flows and strong winds can cause them to open wide or close suddenly if left open and not properly closed. These sudden movements can damage the windows and people, animals or objects within range of the sash can be damaged.
- In case of frost, the exterior surfaces of windows and doors may freeze. Do not exert too much force to act on them. Do not open or close windows / doors when they are frozen. Wait until they thaw.
- Do not push the joinery's sash more than the opening allows.
- Do not place additional weights on doors and windows.
- When the window is open, do not insert any objects (eg feathers or other similar objects) into the space between the sash and the frame.
- Keep open flames away from windows and doors. Indirect heat sources, hot surfaces, sparks and other sources of ignition must be at least 50 cm away from the joinery.
- Float glass can break easily. Shards and glass fragments are very sharp and the risk of injury is high.
- In order to assess the risks associated with motorized elements (windows, doors, shut-off systems and ventilation devices) it is necessary to define the appropriate preventive measures, by analyzing the risks from the planning phase. This analysis provides the necessary information on the basis of which appropriate motor safety measures can be implemented. Depending on the specifications of the construction and the intended field of use, an analysis of the risks and hazards on site is required during the design phase. The analysis can be performed based on the order form and the measurement sheet where the components, characteristics and other assembly details are defined.

GENERAL RECOMMENDATIONS

In order to maintain the functionality of the window / door and ensure your safety, the following must be observed:



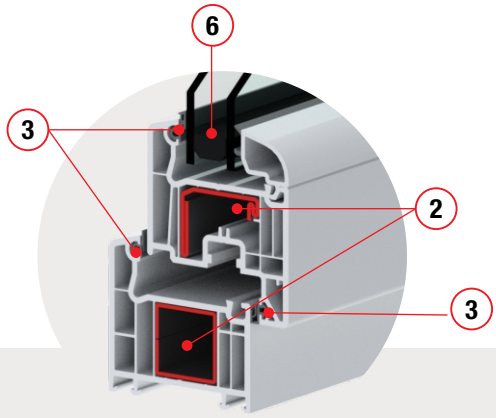
1. Do not load the sash with extra weights.
2. Do not place objects between the sash and the frame.
3. Do not hit the sash to the wall.
4. Risk of tripping and falling.
5. Risk of crushing.

Note: Any adjustments, replacement of worn and / or damaged components must be made exclusively by qualified personnel.

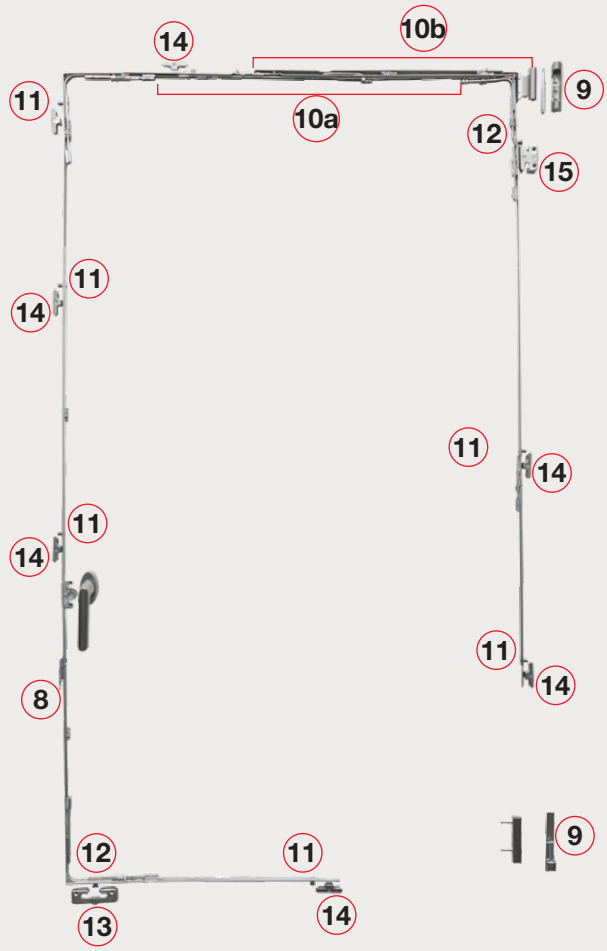
Standard set of tilt and turn hardware for PVC

1 PVC Profiles
2 Galvanized steel reinforcement
3 Gaskets
4 Hinges
5 Glass
6 Warm spacer
7 Handle





8 Sash-elevator and lifting mishandling device
9 Hinges
10a Scissor plate
10b Scissor arm
11 Closing point type E
12 Closing point type P
13 Security striker for tilt and turn
14 Striker
15 Security striker

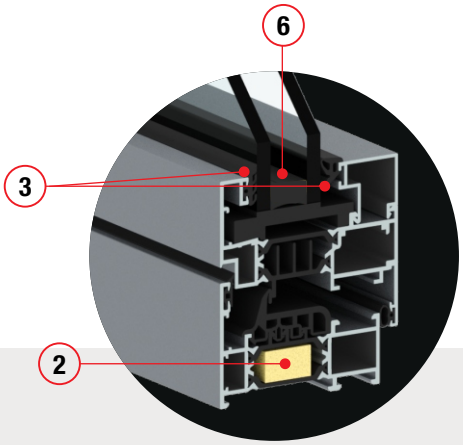


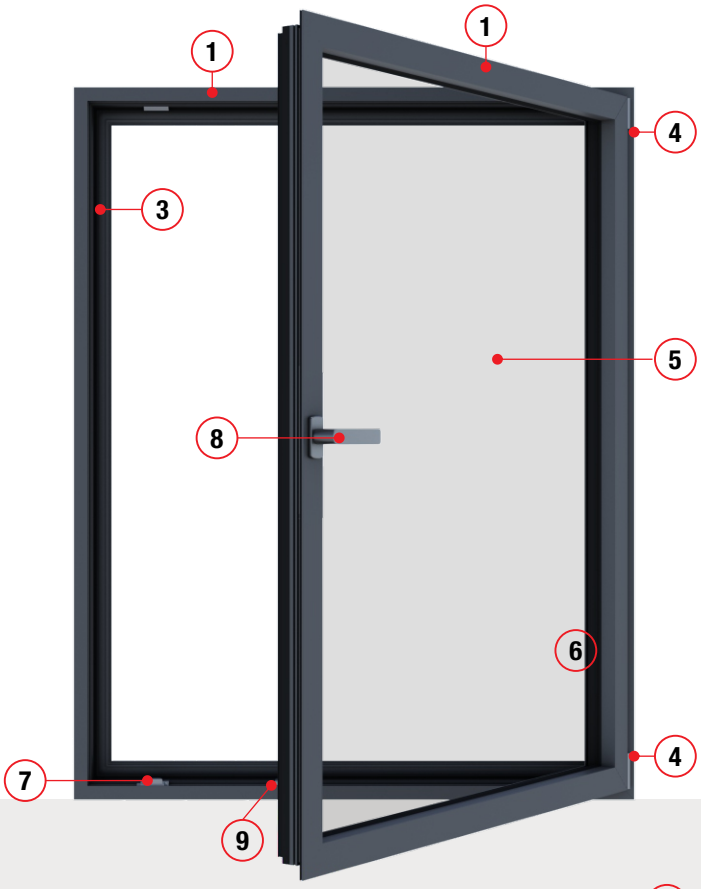
Observation:

- The image shows the standard hardware set for an tilt and turn window with dimensions 1230mm X 1480mm.
- This type of hardware is also used for the 5Stars, 5Stars View and 7Stars Aluminum range, having the same application as for PVC.

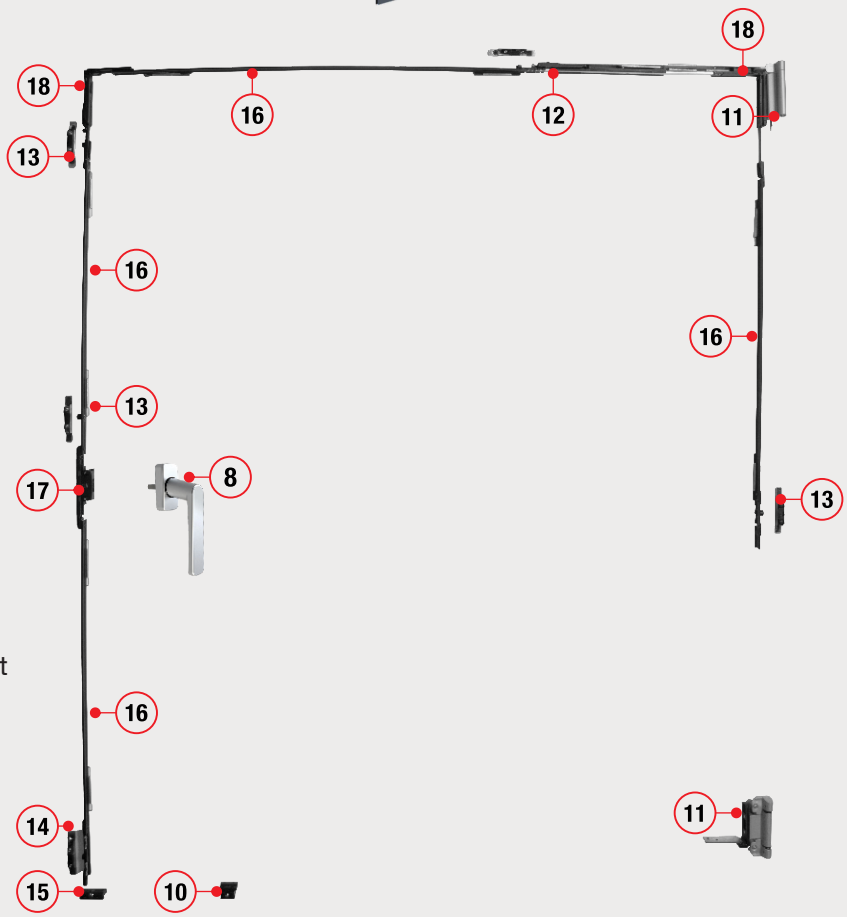
Standard set of tilt and turn hardware for Aluminum

1 Aluminum profiles
2 Thermal break
3 Gaskets
4 Hinges
5 Glass
6 Warm spacer
7 Tilt&turn striker
8 Handle - Silver
9 Closing points





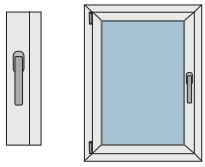
10 Sash-elevator
11 Hinges
12 Tilt and turn stay
13 Closing points
14 Tilt and turn mechanism
15 Tilt&turn striker
16 T&T espagnolette rod
17 T&T espagnolette
18 Corner transmission rod



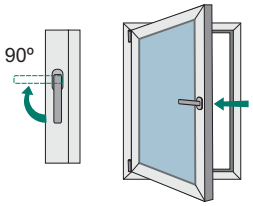
Observation:
The image shows the standard hardware set for an tilt and turn window with dimensions 1230mm X 1480mm.

I. WINDOW / BALCONY DOOR WITH 1 SASH WITH SIMPLE OPENING

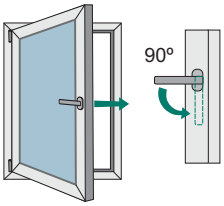
Closed position: The handle in a vertical position facing downwards.



Open position: Open the sash by turning the handle 90° upwards.



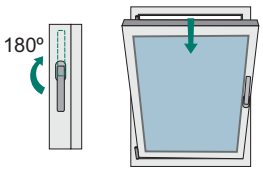
Closing from the "open" position: Push the sash towards the frame and turn the handle 90° downwards.



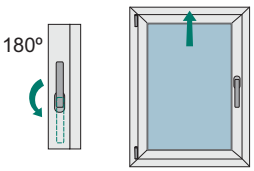
II. WINDOW / BALCONY DOOR WITH TILT AND TURN OPENING

Note: In addition to the opening / closing positions in **point I**, below are the additional swing opening / closing positions for this type of balcony windows and doors.

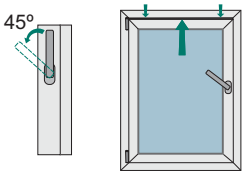
Tilt opening position: Open the sash by turning the handle 180° (vertically, with the tip up)



Closing from the "tilt opening" position: Push the sash towards the frame and turn the handle 180° downwards (vertically, with the tip down)

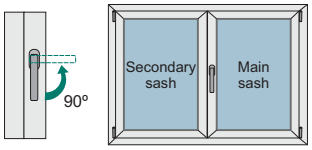


Night-vent opening position: From the tilt opening position, choose the desired opening type and turn the handle 45°(oblique position).
To close the night-vent, turn the handle toward the tilt opening before performing any other type of opening or closing.

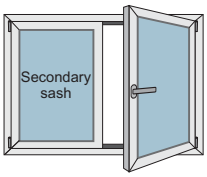


III. WINDOW / BALCONY DOOR WITH 2 SASHES WITH SIMPLE OPENING

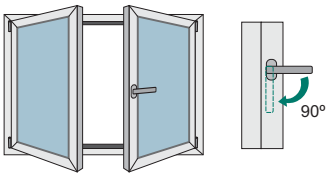
Closed position: Handle in an upright position, pointing downwards.



Opening the main sash: Open the sash by turning the handle 90° upwards (horizontal position).
Opening the secondary sash: Open the secondary sash by unlocking the latch (see page 6).



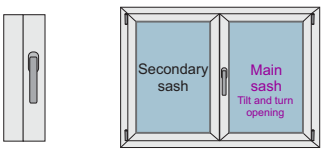
Closing from the open position: Push the secondary frame towards the frame and lock the latch (see page 6). Push the main sash towards the frame and turn the handle 90° downwards (vertically with the tip down).



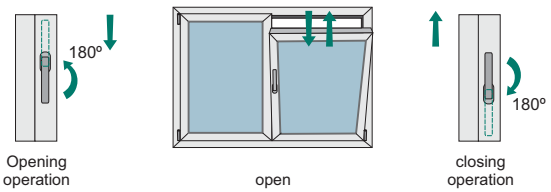
IV. WINDOW / BALCONY DOOR WITH 2 SASHES WITH TILT AND TURN OPENING

Note: In addition to the opening / closing positions in **point III**, below are the additional swing opening / closing positions for this type of balcony windows and doors.

Closed position: Handle in an upright position, pointing downwards.



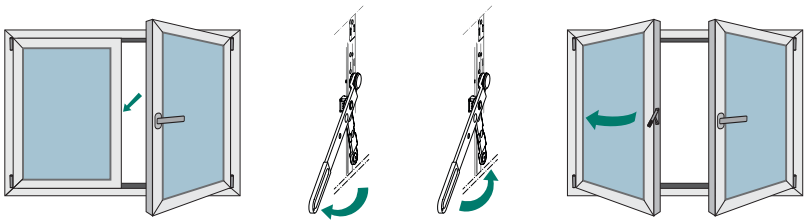
Opening position / closing position:
• Open the sash by turning the handle 180° (vertically, with the tip up and pulling the sash towards you).
• Close the sash by turning the handle 180° (vertically, with the tip down and pushing the sash).



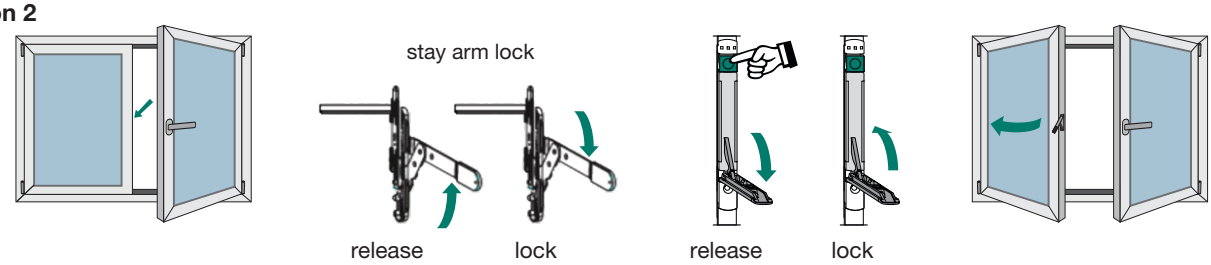
(III + IV) WINDOWS / BALCONY DOORS WITH 2 SASHES – SECONDARY SASH OPENING

Depending on the type of hardware, to open the secondary sash, there are 3 options:

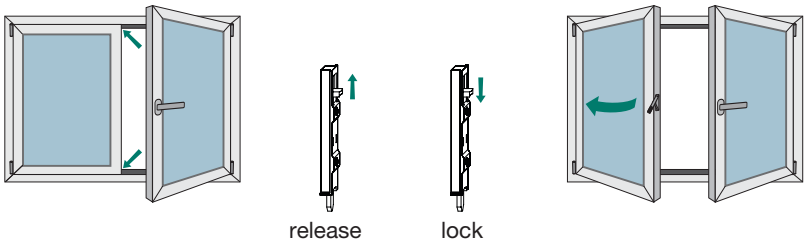
Option 1



Option 2

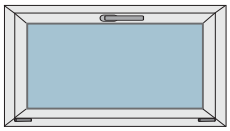


Option 3

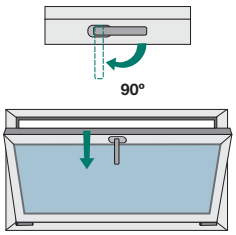


V. TILT WINDOWS (HORIZONTAL T&T ESPAGNOLETTE)

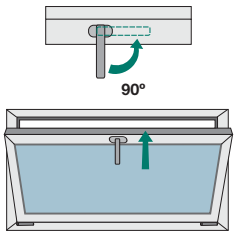
Closed position: The handle is in a horizontal position, with the tip facing left / right.



Open position: Open the sash by turning the handle 90° downwards.

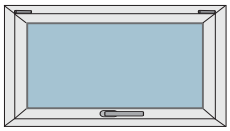


Closing from the "open" position: Push the sash towards the frame and turn the handle 90° upwards.

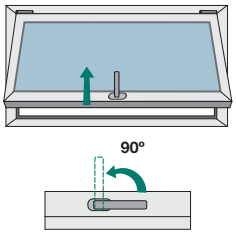


VI. REVERSE OPENING WINDOWS – REVERSE TILT (HORIZONTAL T&T ESPAGNOLETTE)

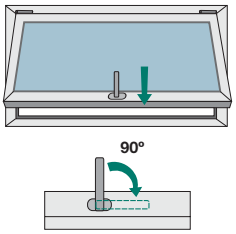
Closed position: The handle is in a horizontal position, with the tip facing left / right.



Open position: Open the sash by turning the handle 90° upwards.

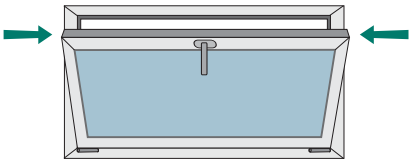


Closing from the "open" position: Push the sash towards the frame and turn the handle 90° downwards.

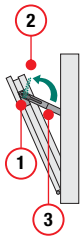


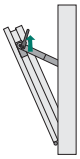
Caution: When the sash has an exterior opening, the user bends outwards.

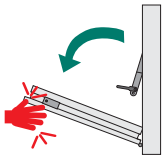
TILT OPENING FOR CLEANING



Tilt opening position



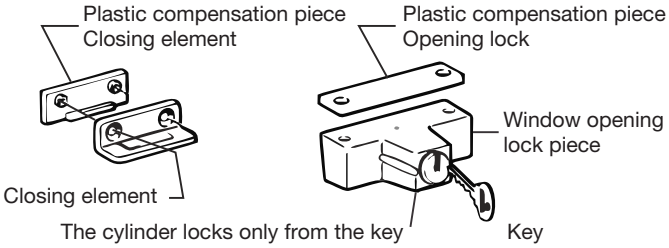




Rotate the lever **(2)** until the arm **(3)** in the bolt **(1)** is released.

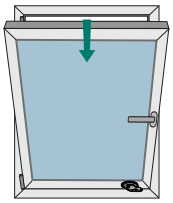
Careful:
Support the window when unlocking the side arm to avoid possible accidents or hitting the window to the sill.

WINDOW ACCESSORIES - “SAFE CHILD” DEVICE





Closed position



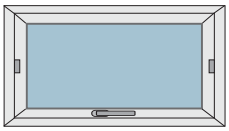
Tilt opening
position

It is used for tilt and turn openings. Locks the sash for the turn opening.

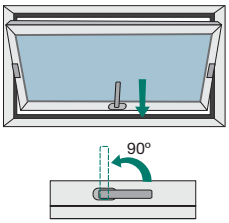
VII. HORIZONTAL SWIVEL WINDOWS

Reversible windows are equipped with brakes that have the role of keeping the sash in the open position.
Note: If the sash tends to close unexpectedly, brake adjustment is required. This action is reserved exclusively for specialized personnel.

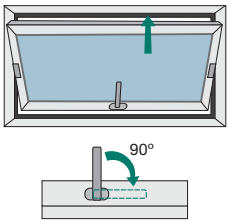
Closed position: The handle is in a horizontal position, with the tip facing left / right.



Open position: Open the sash by turning the handle 90° upwards and push the sash outwards.

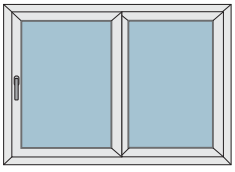


Closing from the "open" position: Push the sash towards the frame and turn the handle 90° downwards.

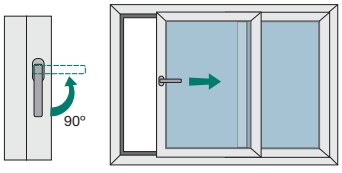


VIII. EKOSOL SLIDING DOORS/WINDOWS

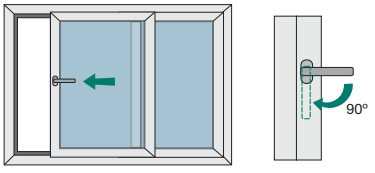
Closed position: The handle is in an upright position, with the tip down.



Opening: Open the sash by turning the handle 90° upwards and sliding it to the side.

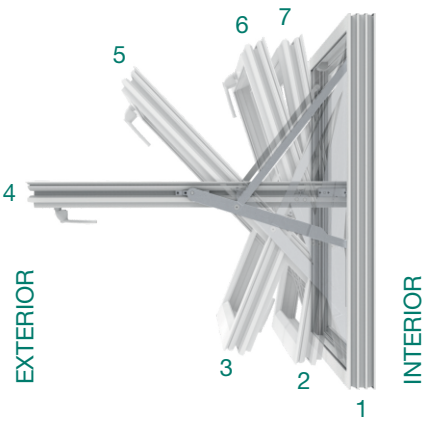


Closing from the "open" position: Slide the sash in the "closed" direction towards the frame and turn the handle 90° downwards.

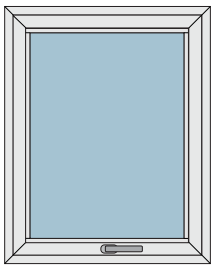


IX EXTERIOR REVERSIBLE WINDOWS (REVERSIBLE)
Reversible windows are equipped with special hardware, provided with opening limiters in several positions.
Unlike a classic reversible window, in this case, the sash rotates completely in the outer plane of the window.
Note: When the window reaches the range of the opening limiters, to continue operating the window, press and hold the **"PRESS"** button positioned on the left vertical side.

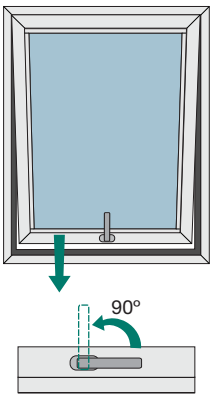
Sash possible positions:



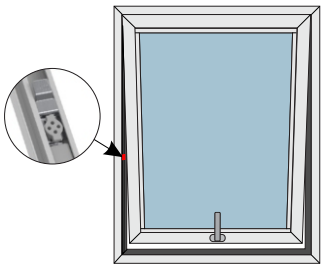
Position 1 - closed: The handle is in a horizontal position, with the tip pointing to the right.



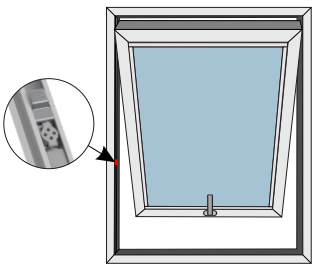
Opening: Turn the handle 90° upwards and push the sash outwards.



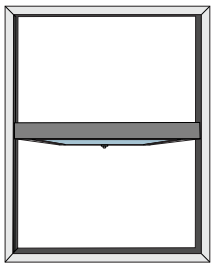
Position 2 - Safety: The sash will stop at the first limiting point, with an opening of about 80-100mm, depending on the height of the sash. From this point, in order to open the window more, you will have to press the button on the left side, in the sliding rail. It is not necessary to press the button to close from this point.



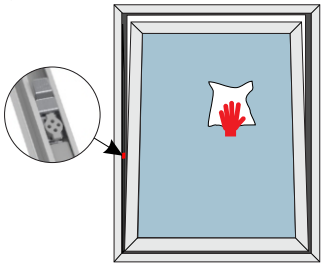
Position 3 - Ventilation:
The sash will stop at the 2nd limiting point, with an opening of about 150-290mm, depending on the height of the sash. From this point, both to open the window more and to close it, you will have to press the button on the left side, in the sliding rail.



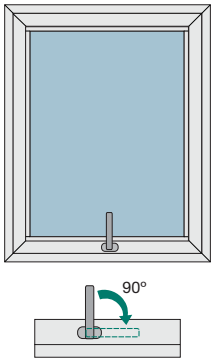
Position 4 - Horizontal: Due to the fact that the pivot is positioned centered on the height of the sash, when the sash reaches a horizontal position it can maintain its position. It is not recommended to leave the sash in this position as it is not secured by an opening limiter, as it may cause injuries.



Positions 6 and 7 - Cleaning positions.
In these positions the sash has an opening limiter. Use these positions only to clean the outer surface of the glass. To close the sash, it is necessary to press the button on the left side, in the sliding rail.



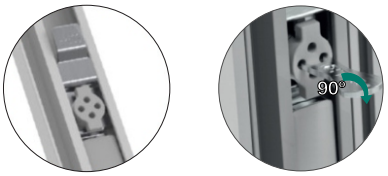
Closing: By pressing the button on the left side in the sliding rail, bring the sash to the starting position and turn the handle 90° downwards until it reaches a horizontal position.



Position 5 - Translation position. It is not recommended to leave the sash in this position as it is not secured by an opening limiter, which can cause injuries.

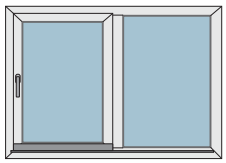
Note: The actuation button can be locked by turning the key 90° when the sash is in one of the positions provided with an opening limiter (2,3,6 and 7).

Careful! - if you lock the sash in position 2, it can be closed without pressing the button.

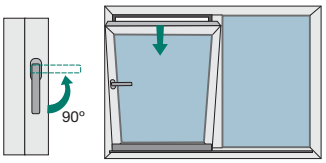


X.I TILT AND SLIDE DOORS/WINDOWS -160S Hardware

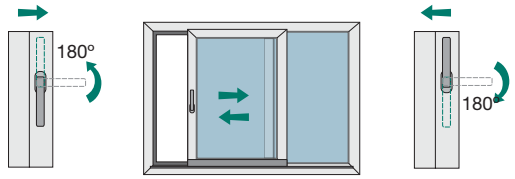
Closed position: The handle is in an upright position, with the tip down.



Tilt opening: Open the sash by turning the handle 90°.

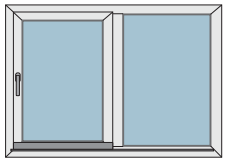


Sliding the sash: Open the sash by turning the handle 180°. The sash is automatically removed, even at the bottom when the handle reaches a 180° rotation, the sash moves to the sliding position.
Closing from the "open" position: Slide the sash in the "closed" direction, push the sash towards the frame and turn the handle 90° downwards.

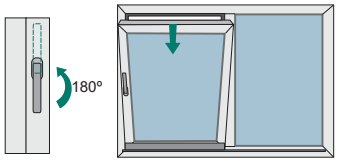


X.II TILT AND SLIDE DOORS/WINDOWS -160Z Hardware

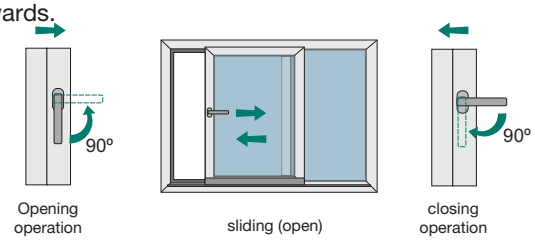
Closed position: The handle is in an upright position, with the tip down.



Tilt opening: Open the sash by turning the handle 180° (with the tip up).



Sliding the sash: Open the sash by turning the handle 90° upwards (horizontal position), pull the sash inwards and slide it left / right.
Closing from the "open" position: Slide the sash in the "closed" direction towards the frame and turn the handle 90° downwards.

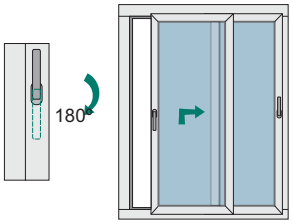


XI. LIFT AND SLIDE DOORS AND WINDOWS

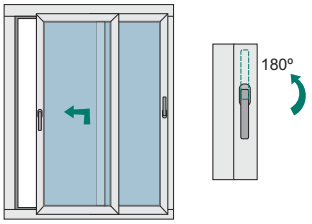
Closed position: The handle is in an upright position, with the tip up.



Opening: Open the sash by turning the handle 180° downwards (the sash rises so that it can be slid effortlessly and slide it sideways.)

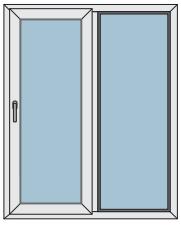


Closing from the "open" position: Slide the sash in the closed direction towards the frame and rotate the handle 180° upwards.

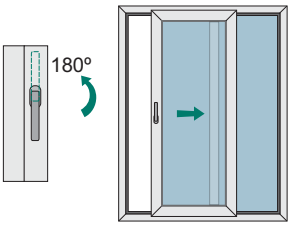


XII. SMART SLIDE SLIDING DOORS AND WINDOWS

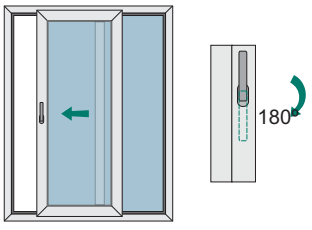
Closed position: The handle is in an upright position, with the tip down.



Opening: Open the sash by turning the handle 180° upwards and slide it to the side.

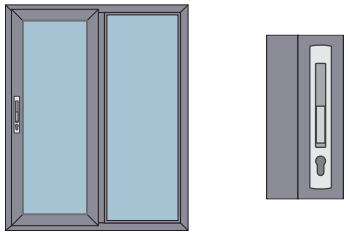


Closing from the "open" position: Slide the sash in the closed direction towards the frame and turn the handle 180° downwards.

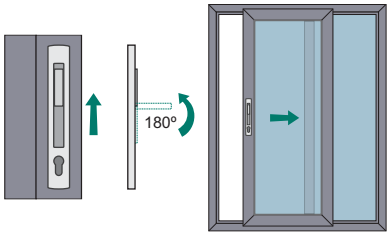


XIII. PANORAMA SLIDING DOORS AND WINDOWS

Closed position: The handle is in vertical position, with the tip facing downwards.

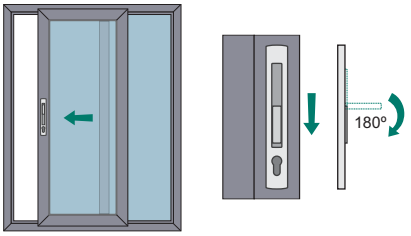


Opening: Open the sash by rotating the handle 180° upwards and slide it to a side.



Open position
Sliding the sash

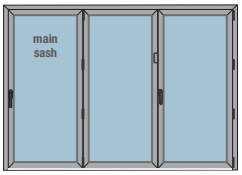
Closing from the "open" position: Slide the sash in the "closed" direction towards the frame, and rotate the handle 180° downwards.



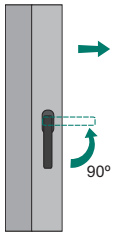
Closing position

XIV. BIFOLD ALUMINUM DOORS

Closed position: The handle is in vertical postion with the tip facing downwards.



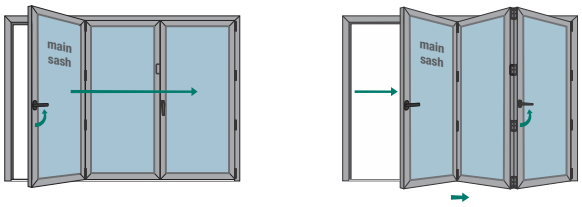
Closed position

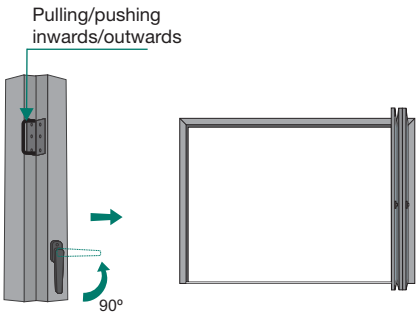


Main sash
opening operation

Open position: Open the main sash by rotating the handle 90° upwards and unblock the consecutive secondary sashes by rotating the flat handle the same way.
The handle on the hinge located between the secondary sashes (above the flat handle) is for pushing or for pulling the join both outwards and inwards, depending on the construction scheme.

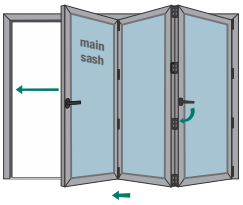
The main sash (if it is necessary) should be opened so that it can anchor the secondary sash; now, pull the remaining sashes and fold them sideways.

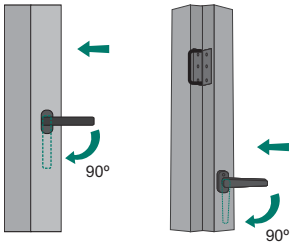




Sliding and folding position
of the main sash + secondary sashes

Closing from the "open" position: slide the sashes in the "closed" direction, towards the frame, and rotate the handles 90° downwards (in opposite direction to the opening).





Main sash closing operation
+
secondary sashes

Remark: For all production options, first unlock and open the main window frame.

GENERAL RECOMMENDATIONS

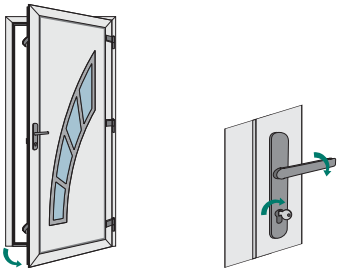
for windows and balcony doors, sliding systems and bifold doors:

(A) - In the case of cylinder hardware, the cylinder is unlocked first.
(B) - In the case of cylinder hardware, the cylinder is locked to prevent opening from the outside.

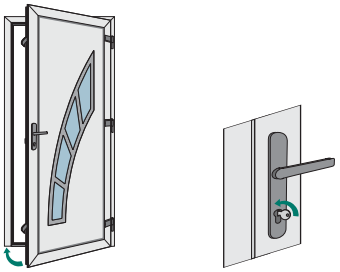
To close or open the door, always use the handle, not the key, to avoid catching and crushing your fingers.
The locking of the cylinder must be done by complete key turns, in order to benefit from all the characteristics of the hardware.

XV.1. ENTRY DOORS - SECURO 1

Opening:
Turn the key in the direction of the hinges, press the handle and open the sash.



Close:
Push the sash towards the frame and close it with full key turns in the direction of the frame.

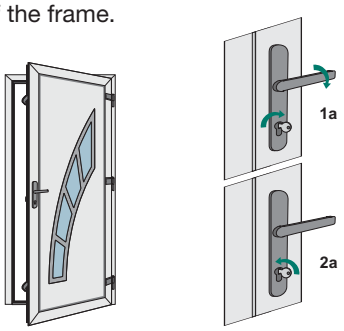


- To close or open the door, always use the handle, not the key, to avoid catching and crushing your fingers.
- The locking of the cylinder must be done by complete key turns, in order to benefit from all the characteristics of the hardware.

XV.2.ENTRY DOORS - SECURO 2

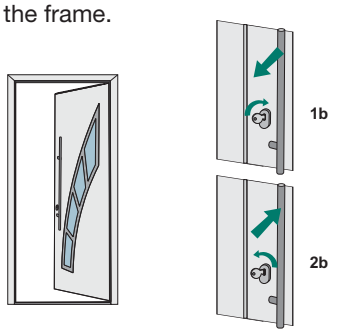
1a. Interior opening:
Turn the key in the direction of the hinges, press the handle and open the sash.

2a. Interior closing:
Close the sash in the frame and lock it with full key turns in the direction of the frame.



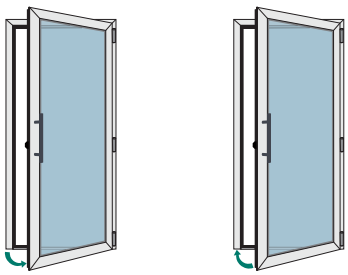
1b. Exterior opening:
Turn the key in the direction of the hinges and push the sash. Open the door using the handle.

2b. Exterior closing:
Close the sash in the frame. To lock the door, turn the key in the direction of the frame.



XV.3. COMMERCIAL ROLL DOORS

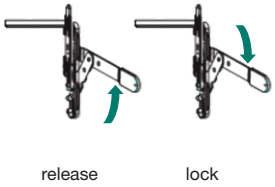
Open/Close:
Entry doors with commercial roll hardware and pull handle are opened by unlocking the cylinder followed by pulling / pushing the handle.

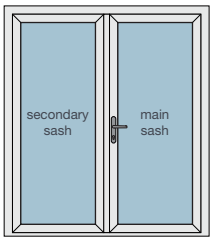


XV.4. MOBILE MULLION DOORS

Open/Close:

- We find the mobile mullion fixed on the secondary sash.
- Doors with a mobile mullion or central interlock allow the entire construction to be opened for a gap as large as possible.
- The secondary sash is opened by operating the latches, which we find on the hardware channel, from the top and bottom as well as for closing, (see page 6).





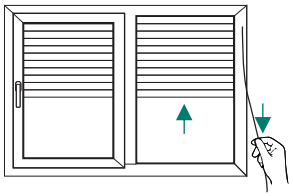
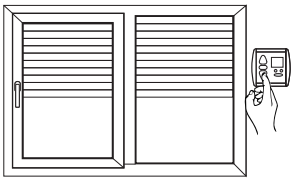
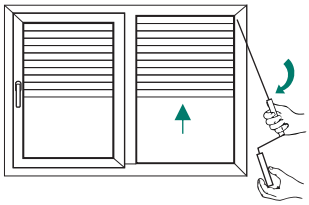
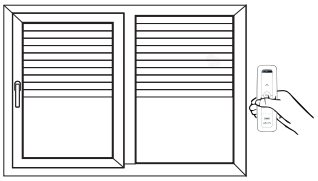
GENERAL RECOMMENDATIONS

for entry doors, roll, mobile mullion:

(A) - In the case of cylinder hardware, the cylinder is unlocked first.
(B) - In the case of cylinder hardware, the cylinder is locked to prevent opening from the outside.

To close or open the door, always use the handle, not the key, to avoid catching and crushing your fingers.
The locking of the cylinder must be done by complete key turns, in order to benefit from all the characteristics of the hardware.

INSTRUCTIONS FOR USE FOR ACCESSORIES

ROLLER INSTRUCTIONS FOR USE	
The actuation of the rollers (overlapped / applied) provided with ribbon / cord is performed as follows:	**The actuation of the rollers (overlapped / applied) provided with electric motors and switch is performed as follows:**
1. To lift the roller blades, pull the cord / string from top to bottom; 2. To lower the roller blades, pull the cord / string from the bottom up. 	1. To lift the roller blades, press the switch to the top position; 2. To lower the roller blades, press the switch to the lower position. 
The actuation of the rollers (overlapped /applied) provided with the crank is performed as follows:	**Actuation of roller shutters (overlapped / applied) provided with electric motors and remote control**
1. To raise the roller blades, turn the crank clockwise; 2. To lower the roller blades, turn the crank counterclockwise. 	It is done following the instructions on the remote control. 

INSTRUCTIONS FOR USE INSECT SCREENS

ROLL - INSECT SCREEN

- To lower the insect screen, the final rail, which locks automatically, is operated from top to bottom;
- To lift the insect screen, unlock the final rail and release it gradually until it reaches the roller housing.

HINGE INSECT SCREEN (FIXED SCREENS)

The operation of the insect screen on the hinges is achieved by rotating around the hinges.

- Closing is done by pulling inwards followed by fixing in clips.
- The opening is made by pushing outwards.



ROLL INSECT SCREEN

Vertically operated:

- To lower the insect screen, the pulling bar is operated from top to bottom, which locks automatically;
- To lift the insect screen, unlock the pull bar and release it gradually until it reaches the upper housing.

Horizontal operated:

- To open, disconnect the final rail and handle it lightly until it reaches the side housing.
- To close the insect screen, pull the final rail from the housing to the opposite side, coupling with the vertical rail with the magnet;



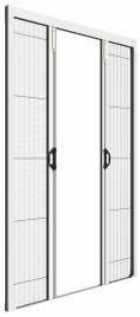
PLISEE INSECT SCREEN

Vertically operated:

- For lowering the insect screen, the pull bar is operated from top to bottom;
- to lift the insect screen, the pull bar is operated from the bottom up;

Horizontal operated:

- To close the insect screen, the pull bar is operated to the opposite side, coupling with the vertical rail with the magnet;
- To open, disengage the pull bar and maneuver gently until it reaches the opposite side.



ROLL OUT INSECT SCREEN

- To open, disconnect the final rail and maneuver gently until it reaches the side housing.
- To close the insect screen, pull the final rail from the housing to the opposite side, coupling with the vertical rail with the magnet;



VENETIAN INSTRUCTIONS FOR USE

EXTERNAL MAGNETIC ROPE CONTROL:

- It is a patented magnetic system, with manual operation and with a lifting and guiding function for the blinds installed inside a 20mm or 22mm glass package.
- The external control applied to the glass by means of a high-strength adhesive, contains a rope, tensioning element and a magnet that blends perfectly with the magnetic coupling of the internal control. The imprinted movement of the string rotates the magnets that activate the slats.
- The rope is held under tension with the help of a special element applied to the glass.
- It guarantees over time the insulation characteristics of double or triple glazing with protection against dirt and weather. It attaches to the window like a simple window.



MANUAL CONTROL WITH ROSETTE:

- It is a patented magnetic system, with manual actuation of the blinds incorporated in 20mm or 22mm insulating glass units.
- It is designed to perform only a function of tilting the slats, with the help of an external rosette positioned on the sash: the glass appears completely clear, easy to clean and without external devices.
- The internal magnetic control that sends the movement of the button to the blinds is fully integrated and sealed inside the sash, so as to preserve over time the insulating properties of the insulating glass, with protection especially against dirt or weather conditions.
- Due to its small size (20 / 22mm), the system can be used in almost all types of existing sash, while the special design allows aesthetic qualities to be maintained in any space is installed.



MOTORIZED CONTROL WITH RECHARGEABLE BATTERY:

- It is a motorized system with battery with the function of lifting and orienting the slats incorporated in the thermal insulating glass with a 20mm or 22mm spacer.
- The blind is operated by a control device applied to the window glass or window sill, or by remote control (optional).
- The battery can be rechargeable in two alternative ways: either using a battery charger with micro-USB output or continuously and independently using an external solar panel (optional).
- It can also be delivered optionally with a solar panel.
- Easy and immediate installation applies to all types of windows, even installed ones; there are no binding or electrical wires, the thickness of the glass sheet is irrelevant.



MOTORIZED CONTROL WITH INTERNAL ENGINE:

- It is a motorized system with lifting and guiding function for blinds installed inside a 20mm or 22mm glass package.
- The blind is operated by means of a device consisting of a brushless motor and a miniaturized control unit that allows (via a control module) the simultaneous and synchronized control of several blinds and the precise tilting of the slats. The motor and the entire electronic blade management system are positioned in the upper box on a special rail designed to reduce vibrations, thus making the system very quiet.
- No control device is installed on the glass or sash, since the motor is started by a wall-installed control panel or a remote control (optional).
- The simplicity of the aesthetic aspect and the high technical performances of the system make it, especially, suitable for prestigious projects.



MAINTENANCE INSTRUCTIONS FOR PVC

MAINTENANCE AND CLEANING KIT

1. Oil spray for hardware. It is used to lubricate and maintain the functionality of hinges and hardware. The special oil prevents dry rubbing and prevents premature wear of moving hardware parts. It also protects against corrosion.

2. Solution for cleaning PVC profiles. It is a non-abrasive solution, consisting of special solvents that remove stains and dirt. It also has the role of UV protection.

3. Solution for gaskets. This product ensures the maintenance of the elasticity and functionality of the gaskets. This avoids breaking or sticking them to the PVC profile.

4. The cloth is a special textile material produced to be used together with the cleaning solution of PVC profiles.

Caution: We recommend that you keep this maintenance kit in a cool, dry place.



Information on cleaning products in accordance with the Product Safety Technical Data (FENOPLAST Fügetechnik GmbH Productsafety@fenoplast.de)

1. SOLUTION FOR HARDWARE - FENOSOL Beschlägeöl Art.200 807
Chemical composition / characterization: mineral oil CAS 8042-47-7, 50÷100%; 1-2-3 propantriol CAS 56-81-5, <50%.
Recommendations:
- Avoid inhaling vapors. Avoid contact with eyes and skin.
- Do not empty the product into water or sewage.
- Keep out of reach of children.

2a. SOLUTION FOR CLEANING WHITE PVC PROFILES - FENOSOL Intensiv-Reiniger Art.200 700
Chemical composition / characterization: sulfonat alchil <5%; dodecan-1-ol, CAS 112-53-8 < 2%; agents tensioactive anionic non-ionic, citral, isothiazolone <5%.
Recommendations:
- Avoid inhaling vapors. Avoid contact with eyes and skin.
- Do not empty the product into water or sewage.
- Keep out of reach of children.

2b. SOLUTION FOR CLEANING PVC COLOR PROFILES - FENOSOL Dekor-Reiniger Art.200 710
Chemical composition / characterization: CAS 111-76-2 butilglicol <10%; fat alcohols, ethoxylate, sulfate, natriumsalz <5%; 497-19-8 sodium carbonate <2%; agents tensioactive non-ionic, isothiazolone, citral < 5%.
Recommendations:
- Avoid inhaling vapors. Avoid contact with eyes and skin.
- Do not empty the product into water or sewage.
- Keep out of reach of children.

3. SOLUTION FOR GASKETS - FENOFLEX Dichtungspflege Art.200 207
Chemical composition / characterization: benzenesulfonic acid, C10-13-alkylderivate, natriumsalz; CAS 68411-30-3, 1÷10%.
Recommendations:
- Avoid inhaling vapors. Avoid contact with eyes and skin.
- Do not empty the product into water or sewage.
- Keep out of reach of children.

HARDWARE MAINTENANCE

- Hardware is the mechanical part of a window and its maintenance is done using synthetic or mineral oil. We advise you to use the special oil **(1)** from the **MAINTENANCE AND CLEANING KIT.**
- Press briefly, once or twice, to spray the oil inside each moving element of the hardware (photo a). To access the hinges it is necessary to remove the protective covers (photo a).

Attention: It is highly recommended to grease the hardware with oil twice a year!

CLEANING OF PVC PROFILES

- The cleaning of the profiles will be done only with liquid detergents for ceramic or plastic surfaces.
- We advise you to use the cleaning solution (**2a** or **2b**) from the **MAINTENANCE AND CLEANING KIT**. Shake before use and then pour directly onto a damp cloth (photo b).
- The surface is cleaned by light rubbing in the direction of the length of the PVC profile (photo b). Avoid cleaning friction movements in a circular motion! After cleaning, do not wipe the surface of the profile so that the cleaning solution turns into a protective layer by drying, with anti-static properties and increased resistance to ultraviolet rays.

Attention: It is highly recommended to use the product for cleaning the PVC surfaces twice a year.

GASKET MAINTENANCE

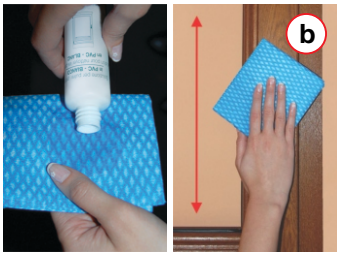
- The gaskets between the sash and the frame are greased with a silicone-based substance to preserve elasticity.
- We advise you to use solution **(3) MAINTENANCE AND CLEANING KIT.** Before using the solution **(3)** must gently wipe the dust off the gaskets with a clean, damp cloth.
- Using a clean cloth, spread the special solution (photo c) well on all window sills. The solution thus applied will cause the water to slip off the gaskets and will maintain their elasticity

Attention: It is highly recommended to clean the gaskets at least twice a year!

WINDOW CLEANING

The windows should be cleaned with warm clean water, possibly using foaming detergent. The use of aggressive or diluent substances should be avoided







MAINTENANCE INSTRUCTIONS FOR ALUMINUM

AINTENANCE AND CLEANING KIT

1. Oil spray for hardware. It is used to lubricate and maintain the functionality of hinges and hardware. The special oil prevents dry rubbing and prevents premature wear of moving hardware parts. It also protects against corrosion.

2. Special napkins for cleaning the joinery: remove the silicone, pencil or pen traces, kit lines, junction or stickers; they give a new, immaculate look on each type of profile; they clean the glass, no traces, giving an impeccable finish; they give protection against organis and dust deposit, for a final bright finishing with no marks.

3. Solution for gaskets. This product ensures the maintenance of the elasticity and functionality of the gaskets. This avoids breaking or sticking them to the PVC profile.

Caution: We recommend that you keep this maintenance kit in a cool, dry place



Information on cleaning products in accordance with the Product Safety Technical Data (FENOPLAST Fügetechnik GmbH Productsafety@fenoplast.de)

1. SOLUTION FOR HARDWARE - FENOSOL Beschlägeöl Art.200 807
Chemical composition / characterization: mineral oil CAS 8042-47-7, 50÷100%; 1-2-3 propantriol CAS 56-81-5, <50%.
Recommendations:
- Avoid inhaling vapors. Avoid contact with eyes and skin.
- Do not empty the product into water or sewage.
- Keep out of reach of children.

2. WIPES FOR CLEANING ALUMINUM PROFILES
- Contains: acetone, less than 5% of nonionic surfactants, 5% or more but less than 15% of aliphatic hydrocarbons. H225 Highly flammable liquid and vapor. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness. H412 Harmful to aquatic life with long lasting effects. EUH066 Repeated exposure may cause skin dryness or cracking. If you need medical advice, have the product container or label handy. Keep out of reach of children. Keep away from heat, hot surfaces, sparks, open flames and other sources of ignition. Smoking prohibited. Keep container tightly closed. Use only outdoors or in a well-ventilated area. IF IT GETS IN YOUR EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present, and easy to do. Keep rinsing. Call a TOXICOLOGY CENTER / doctor if you feel unwell. Dispose of contents and container in accordance with local or national authority regulations. Use only for the intended purpose and in accordance with the user guide.

3. SOLUTION FOR GASKETS - FENOFLEX Dichtungspflege Art.200 207
Chemical composition / characterization: benzolsulfansäure, C10-13-alkylderivate, natriumsalz; CAS 68411-30-3, 1÷10%.
Recommendations:
- Avoid inhaling vapors. Avoid contact with eyes and skin.
- Do not empty the product into water or sewage.
- Keep out of reach of children.

HARDWARE MAINTENANCE

- Hardware is the mechanical part of a window and its maintenance is done using synthetic or mineral oil. We advise you to use the special oil **(1)** from the **MAINTENANCE AND CLEANING KIT.**
- Press briefly, once or twice, to spray the oil inside each moving element of the hardware (photo a). To access the hinges it is necessary to remove the protective covers (photo a).

Attention: It is highly recommended to grease the hardware with oil twice a year!

CLEANING ALUMINUM PROFILES

Cleaning the profiles will be done with special wipes for joinery cleaning **(2)**. How to use: drill the lid of the box (photo b) in the center; insert the moist napkin into the central hole. Of the lid; put the lid back; remove the napkin; clean the problem area using circular movements. In case of persistent stains, resume the process. Once the area cleaned, the process will be closed by circular applications with a piece of textile microfiber. Close the box tightly after each use.

Attention: It is recommended to use special cleaning wipes for joinery at least twice a year!

GASKET MAINTENANCE

- The gaskets between the sash and the frame are greased with a silicone-based substance to preserve elasticity.
- We advise you to use solution **(3) MAINTENANCE AND CLEANING KIT.** Before using the solution **(3)** must gently wipe the dust off the gaskets with a clean, damp cloth.
- Using a clean cloth, spread the special solution (photo c) well on all window sills. The solution thus applied will cause the water to slip off the gaskets and will maintain their elasticity.

Attention: It is highly recommended to clean the gaskets at least twice a year!

WINDOW CLEANING

The windows should be cleaned with warm clean water, possibly using foaming detergent. The use of aggressive or diluent substances should be avoided







MAINTENANCE INSTRUCTIONS FOR ALUMINUM

- Adherence to a few simple rules will lead to maintaining the quality and pleasant appearance of the joinery for a long time. This requires regular cleaning and maintenance of exposed profiles and surfaces.
- Aluminum profiles must be cleaned with warm water, with a neutral pH (pH between 6 and 8), detergent without acetose, which does not contain ammonia or chlorides;
- The frequency with which the joinery must be cleaned is set by the environment in which it is installed, being more intense near the coast, in industrial areas or in heavily polluted regions;
- The frequency of the maintenance process also depends on the use of joinery;
- Minimum frequency: in non-corrosive atmospheres, when aluminum profiles are exposed to rain, they must be cleaned four times a year (once a quarter);
- The use of abrasive cleaning and polishing products as well as aggressive products is potentially dangerous for all surfaces, with or without surface treatment and is therefore prohibited;
- Avoid spraying with mortar, plasters or other acidic products, which can attack the surface of the profiles;
- The use of organic solvents is prohibited;
- The use of cleaning products with an acidic or basic pH is prohibited, as it may cause damage and corrosion to the surface. The cleaning products used must have a pH between 6 and 8;
- Surfaces should be cleaned with a suitable non-abrasive cloth or sponge that uses a large amount of water and / or a cleaning product to perform the task. The use of a dry cleaner is prohibited, as it may cause damage to the surface. After cleaning, all traces of the cleaning product must be thoroughly washed;
- Aluminum profiles should not be cleaned in direct sunlight or when the surface temperature exceeds 25 degrees Celsius;
- It is forbidden to use tools or instruments that can cause scratches or damage to the paint applied to the joinery (eg: wire brush, metal screwdrivers, etc.);
- In order to ensure the proper functioning of the carpentry, it is necessary to check it at least once a year, to detect any clogging of drainage holes or any foreign bodies or residues entering the sliding areas, which may lead to incorrect operation of the carpentry or the occurrence of incorrect condensation discharges;
- Clogged rails and drains can be cleaned with a thin wooden or plastic rod. It is also necessary to check the seals in order to observe any defects, in which case the intervention of specialized personnel is necessary;
- In case of improper operation of the joinery, the competent personnel must be contacted for checks or possible repairs.

MAINTENANCE INSTRUCTIONS FOR ACCESSORIES

CLEANING THE ROLLER SHUTTERS

Use soap and water to clean the roller sheets, and then rinse with clean water. For a better result, dry the surfaces with a soft cloth. Cleaning should be done at least twice a year. Washing with a water hose is prohibited as the engine may be short-circuited.

CLEANING ANTI-INSECT SCREENS

For the systems provided with the insect screen, the cleaning of the net is done by following the following steps:

- Make sure the net is fully stretched before you start cleaning it;
- If it is very dirty, you can put a few drops of soap in the water and let it act on the screen;
- Wipe the screen lightly with a dry cloth.

CLEANING THE VENETIANS

No cleaning required.