SCHÜCO

Art. No. 98467_03_EN/09.2023

Aluminium systems

Schüco windows
AWS projected top-hung unit

en Operating and maintenance instructions

Art. No. 98467/09.2023

Contents

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1. About these instructions

1.1. Symbols

⚠ DANGER Imminent danger resulting in death or severe injuries.

⚠ WARNING Potential imminent danger which may lead to death or severe injuries.

⚠ CAUTION Potentially dangerous situation which may lead to minor injuries.

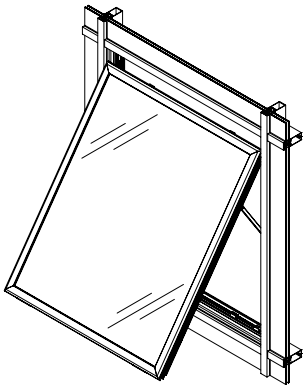
WARNING Imminent danger of damage to property which may lead to damage to or destruction of the product or environment.

1.2. Who is this document for?

This document is intended for the consumers and users of this product.
Before initial use, read through this manual thoroughly and adhere to the specified sequence of the instructions. These instructions are part of the product. Keep them in an accessible place so that the information is always available.

2. Safety

2.1. Proper use



A projected top-hung window consists of a large window area fixed at the top which can be opened outwards. The window vent is lowered slightly when opened and can then be projected to the outside.

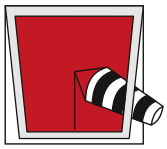
Proper use also includes adhering to the installation and operating instructions. Any alternative use or a use beyond this remit is not in accordance with its purpose. Incorrect use or unauthorised modification of the product may result in death or serious injury, or damage to the product and other material assets. Only original replacement parts may be used.

Special safety requirements must be borne in mind in the usage phase of outward-opening windows. The Schüco range of safety fittings, e.g. engagement spring catches, limiting stays and safety catches, enables a high level of safety with opened windows. The safety measures are not a substitute for normal, regular maintenance or the correct operation of window units in accordance with the relevant operating and maintenance instructions.

For reasons of simplicity, this manual does not contain every detail of all product types and it cannot cover every possible installation, operation or maintenance scenario.

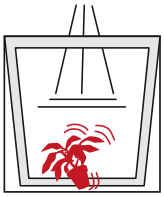
If you have any questions, please contact your specialist fabricator or your local Schüco sales representative.

2.2. Basic safety information



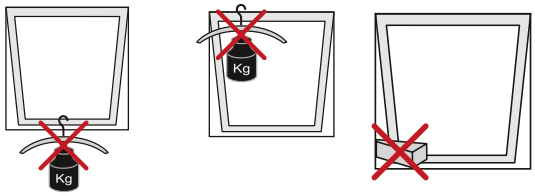
Risk of death from parts of the window vent or the entire window vent falling out.
Uncontrolled opening and closing of an open window unit due to wind or a draught can damage profiles, fittings, glass and façades.
In the most severe cases, parts of the window or the entire vent can be torn out or fall down on the façade and hit third parties, e.g. passers-by.

- ► Close the window if there is a draught or it is windy.
  Close the window if there is a draught or it is windy.
- ► Do not leave open windows unattended.



Potential imminent danger from objects falling down.
Open units may slam open or shut in a draught which may knock over adjacent objects.
In the most severe cases, objects can fall down on the façade and hit passers-by.

- ► Close the window if there is a draught or it is windy.
  Close the window if there is a draught or it is windy.
- ► Do not leave open windows unattended.

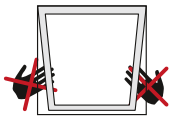


Potential imminent danger from the destruction of the window frame and the fittings due to additional loading.
The additional load can cause deformation of the unit frame and fittings In the most severe cases, parts of the window or the entire vent can be torn out or fall down on the façade and hit third parties, e.g. passers-by.

- ► Do not put additional loads on frames and fittings.
- ► Do not wedge anything between the window and the window frame.

Imminent danger of damage to property due to incorrect operation. Operate the handle in the correct direction only and do not force it beyond the stop. The unit handles must not be moved to positions between the engagement points during opening and closing, as this can damage the fitting.

- ► Only activate the unit handles when the window is closed.
- ► Operate the unit handles in the correct direction only and do not force them beyond the anti-turn stop.



Risk of trapping fingers between the window and the frame when operating the window.

- ► Do not put fingers between the window and the frame.

3. Operation

3.1. Opening a projected top-hung unit

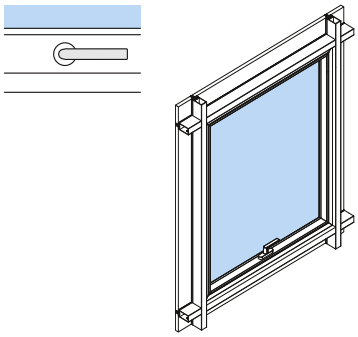
⚠ WARNING

Potential imminent danger which may lead to death or severe injuries due to damage to the profiles, fittings, glass and façades. Injury to humans due to uncontrolled opening and shutting of an open window vent.

With strong negative wind loads, the rebate stay can be pulled into the end position causing the window to shut again immediately.

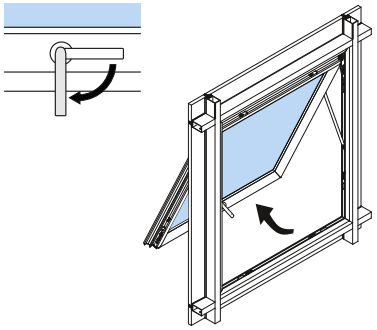
► Close windows and window doors in the event of increased air movement or strong wind.
► Do not leave open windows unattended.

Requirements



The window is closed.

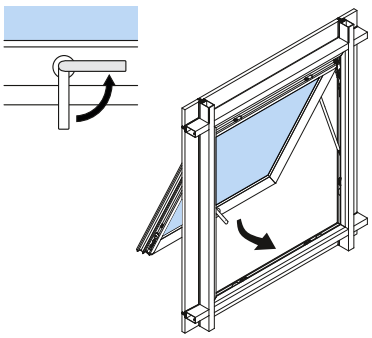
Procedure



1. Turn the handle through 90° to the room side.
2. Push the vent outwards.

3.2. Closing a projected top-hung unit

Procedure:



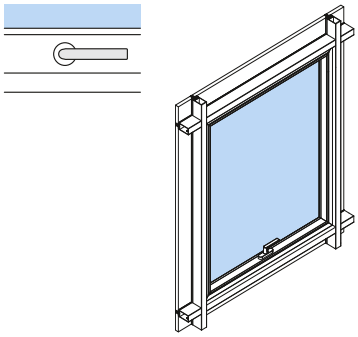
1. Pull the vent fully shut.
2. Turn the handle towards the window through 90°.

4. Operation with a country-specific vent fastener handle

4.1. Opening a projected top-hung unit with a vent fastener handle

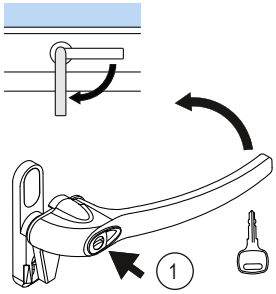
⚠ WARNING
Risk of death from parts of the window vent or the entire window vent falling out.
► Do not open the window if there is a draught or it is windy.
► Do not leave open windows unattended.

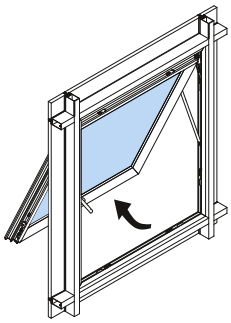
Requirements



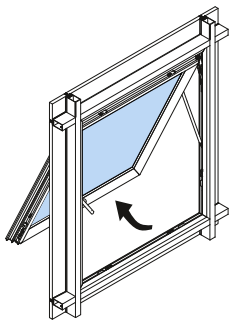
The window is closed.

Procedure





1. If the handle is fitted with a lock. Unlock the handle using the key.
2. Press and hold the switch (1). Turn the handle through 90° to the room side.

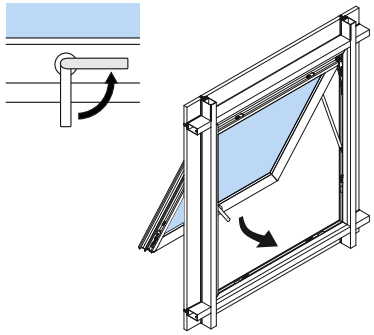


3. Push the window outwards.

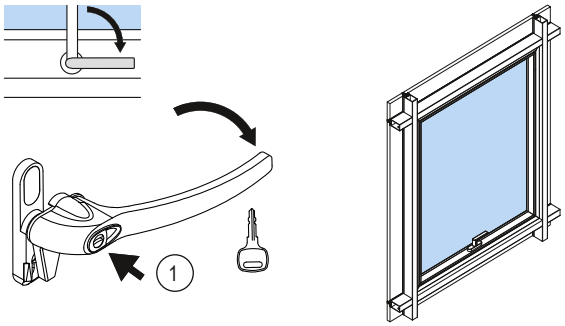
WARNING
To avoid damage to the handle.
► Do not use the handle.

4.2. Closing a projected top-hung unit with a vent fastener handle

Procedure:



1. Pull the vent fully shut.



2. Press and hold the switch (1). Turn the handle towards the window through 90° and lock.
3. If the handle is fitted with a lock. Lock the handle using the key.

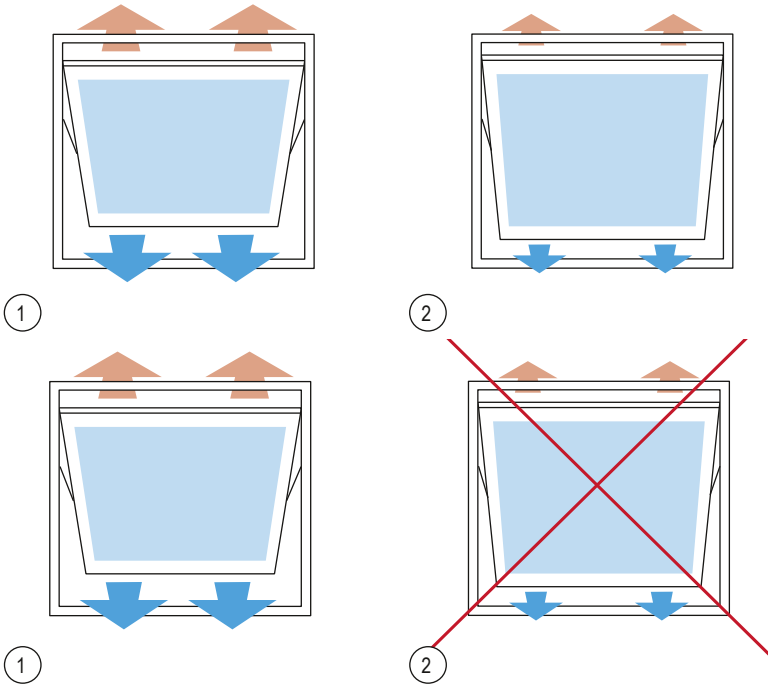
5. Correct ventilation

5.1. Avoiding damage caused by damp

The high weathertightness of the AWS Schüco window systems reduces the exchange of air between the inside and outside. Depending on use, high humidity loads could occur. This is caused by evaporation from people and plants and facilities with high humidity levels such as bathrooms and kitchens.

The accumulation of water vapour leads to an increase in humidity and has to be let out to prevent damage caused by damp. The formation of condensation on materials that are not sensitive to water such as aluminium window frames and glass is permissible for a short time and in small quantities (DIN 4108-2). This phenomenon can be countered by sufficient ventilation.

Ventilation in summer / winter



Summer
Short blast ventilation (1).
Prolonged ventilation only when heating is switched off (2).

Winter
Short blast ventilation (1).
Avoid prolonged ventilation through tilted windows in winter to prevent the interior becoming too cold (2).

5.2. Blast ventilation

Depending on use, the window should be fully opened several times a day for blast ventilation.
As illustrated the perfect ventilation time depends on the time of year and should be in the range of 4–6 minutes in winter.

Impact ventilation ensures maximum protection against moisture damage. This effective exchange of damp air requires little heat energy as the interior barely cools down at all during the short period of ventilation.

The ventilation is even more economical if the thermostat valve is turned off during ventilation and back on after the windows are shut again.

Recommended duration of blast ventilation by month:

Time of year	Ventilation period	
December January February	4 - 6 minutes	
March November	8 - 10 minutes	
April October	12 - 15 minutes	
May September	16 - 20 minutes	
June July August	25 - 30 minutes	

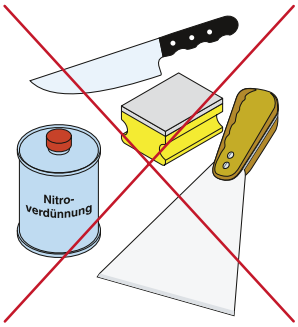
Abb. 5-1: Ventilation time required to exchange the air during blast ventilation (wide open window with no wind) depending on seasonal outside temperature.

6. Maintenance

6.1. Cleaning and maintenance products

Schüco components must be cleaned a minimum of once a year by a professional using suitable cleaning agents. Significantly more frequent cleaning may be necessary if there is heavy contamination from particular environmental factors.

When cleaning colour-coated units, observe the instructions for use of the cleaning agent.



The following items must NOT be used for cleaning:
Tools with sharp edges, e.g. knives, metal scrapers, steel wool, the scouring side of household sponges etc. will damage surfaces.
Aggressive cleaning fluids or solvents, e.g. cellulose thinner, nail polish remover etc. will also cause irreversible damage to unit surfaces.

Maintenance products suitable for aluminium units

Aluminium maintenance kit 298 672

are available from Schüco specialists.

Aluminium maintenance kit 298 672
- Cleaner and preservative
- Stainless steel cleaner
- Gasket cleaner
- Fittings spray
- Cleaning cloth

Maintenance products for anodised aluminium units:

Basic cleaner 298 181

Metal polish 298 010

Basic cleaner 298 181
For initial and basic cleaning.
Cleans and preserves the aluminium surface.

Metal polish 298 010
This cleaner for anodised surfaces restores the matt finish to the aluminium and preserves the surface. This cleaning agent is also suitable for stainless steel.

Universal aluminium cleaner 298 001

Universal aluminium cleaner 298 001
Removes stubborn grime, minor scuff marks and scratches.

6.2. General cleaning instructions

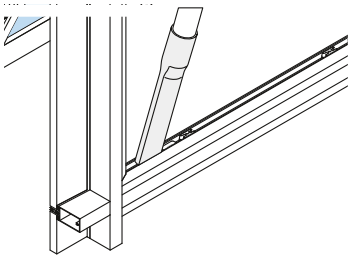
To prevent damage, observe the instructions for use given on the cleaning agent.

For the best window care, clean the window frames and gaskets at the same time as the window panes. Use a mild, non-scouring cleaning agent.

Solid substances
Plaster, mortar or similar is best removed using a wooden or plastic spatula.

Marks
Marks can be removed safely and without residue using a cleaning agent from our range of cleaning products for aluminium units.

6.3. Cleaning the drainage slots



Remove dust and dirt from the space between the gaskets and the external side of the frame using a vacuum cleaner.

Blocked drainage slots can be cleaned using a cocktail stick or cotton bud.

6.4. Maintenance work and maintenance contract

⚠ DANGER
Irregular or incorrect maintenance can result in unusual wear or destruction of the components.
In the most severe cases, parts of the window or the entire vent can be torn out or fall down on the façade and hit third parties, e.g. passers-by.

► Carry out annual maintenance. In the case of particular loads or changing operators, for example with operation of a school or hotel, this should be at least every six months.
► Maintenance work should only be carried out by Schüco or another specialist.

The following maintenance work must be carried out by Schüco or another specialist at least once per year:

- **Fittings:** Check the fixings and operation. Set up the vents again if necessary. Adjust the fittings. Oil or grease the fittings and moving parts correctly, see chapter 5.5 Retightening the window olive (handle). Check the screw connections. Check the condition and wear, and replace parts if necessary.

- **Gaskets:** Check the condition of the gaskets and corner joint, and replace if necessary, see chapter 5.6. Apply a lubricant or protective agent.

- **Frames and butt joints / vent and frame load-bearing structure:** Check the corner joints and T-joints. Check the drainage.

- **Surface finish:** Carry out a visual check and initiate cleaning measures or treatment as required. For cleaning measures, see 5.1

The fittings in the window units require specialist, systematic maintenance, care and inspection to ensure they retain their value and remain fit for use and safe. Therefore, it is recommended that you conclude a corresponding maintenance contract for window units.

All repairs and maintenance should be undertaken by Schüco or another specialist. Only repairs and maintenance by a specialist using “original parts” ensure the continued correct and safe operation of your Schüco units.

To conclude a maintenance contract, please contact Schüco directly:
Tel. +49 521 783 1111
serviceteam@schueco.com

If these operating instructions do not answer all your questions, refer to your Schüco specialist for help or contact Schüco directly.

6.5. Lubricating the fittings components

A little acid-free oil and grease are required to keep the mechanics smooth and ensure user comfort for a long period.

Schüco fittings are generally lubricated in the factory. We recommend that any lubrication work is carried out at least once a year by a qualified specialist.

Do not lubricate or oil fittings components with an additional positioning and stop function, e.g. energy-absorbing limiting stays or vent brakes. The condition of the components and their unrestricted function must be checked as part of the maintenance work.

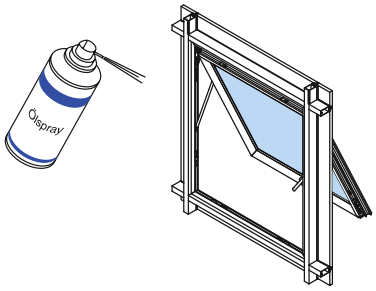
Preparation

Lubricant spray 298 741

Grease 298 118

If required, Schüco fittings can be maintained with an acid and resin-free oil.

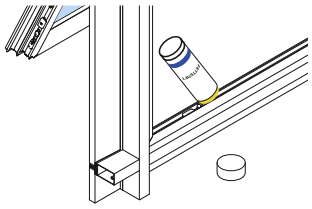
Procedure



1. Spray the locking pins and the positioning points of the tilt stay with the lubricant spray from the Schüco range. Only a light application is required at all points.
2. To avoid contamination, wipe off excess lubricant after lubrication.

6.6. Checking and lubricating gaskets

Procedure



1. Rub all gaskets with a grease stick or Vaseline. This will maintain suppleness and prevent sticking.
2. At the same time, check all gaskets for damage. A Schüco specialist should replace any defective gaskets.

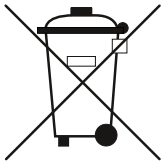
7. Decommissioning and disposal

7.1. Decommissioning

Commission a specialist to remove the units professionally.

7.2. Disposal

Commission a specialist to dispose of the units professionally.



The materials used can be recycled. Observe the environmental requirements with regard to recycling, re-use and disposal of operating materials and components in accordance with the local, country-specific and international current technical regulations and official regulations. Make a contribution towards protecting our environment and dispose of the units at a collection point.

en Original instructions

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