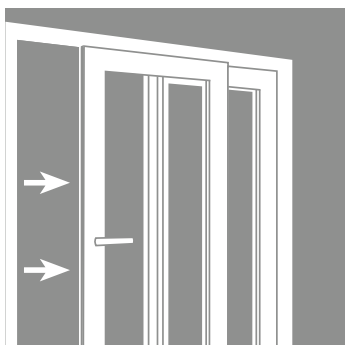




Art. No. 98145_02/EN/06.2025

Aluminium systems

Schüco ASS 77 PD sliding systems

de

Operating instructions
for consumers

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1. Notes on this document

1.1. Use and retention of the instructions

Before installing and commissioning, read through this manual thoroughly and adhere to the specified sequence of the instructions. Schüco International KG shall not be liable for any damage which arises from a failure to adhere to these 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. About the safety instructions



Type / source / consequence of the danger

Pictograms and key words advise of the type of danger and the level of danger:

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.

2.2. Correct ventilation

Follow the safety instructions in this document so as not to endanger your own life or that of others and to ensure error-free operation.



CAUTION

- When operating, note that Schüco sliding doors may open and close automatically when left unattended.

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



WARNING

Danger of falling

There is a risk of falling out of open units.

Do not leave open units unsupervised.



CAUTION

Risk when the vent is retracted into the outer frame

When closing, do not put hands in the striker area of the vent, as fingers could become trapped. Always operate the manually closing vent using the push bar or pull grip but outside of the locking units.

Fitness for purpose with increased weight

For vent weights above 300 kg, there may be significantly larger operating forces. Classification of the operating forces in accordance with class 1 of EN 13115 is not likely to be achieved.

Weight and security

During closing, the moving vent must always be closed at a controlled speed. With increased closing speeds and vent weights, there is an increased risk of fingers being trapped as it is not possible to slow down the moving vent in a controlled way.

Furthermore, damage may be caused to the installation in the striker area.

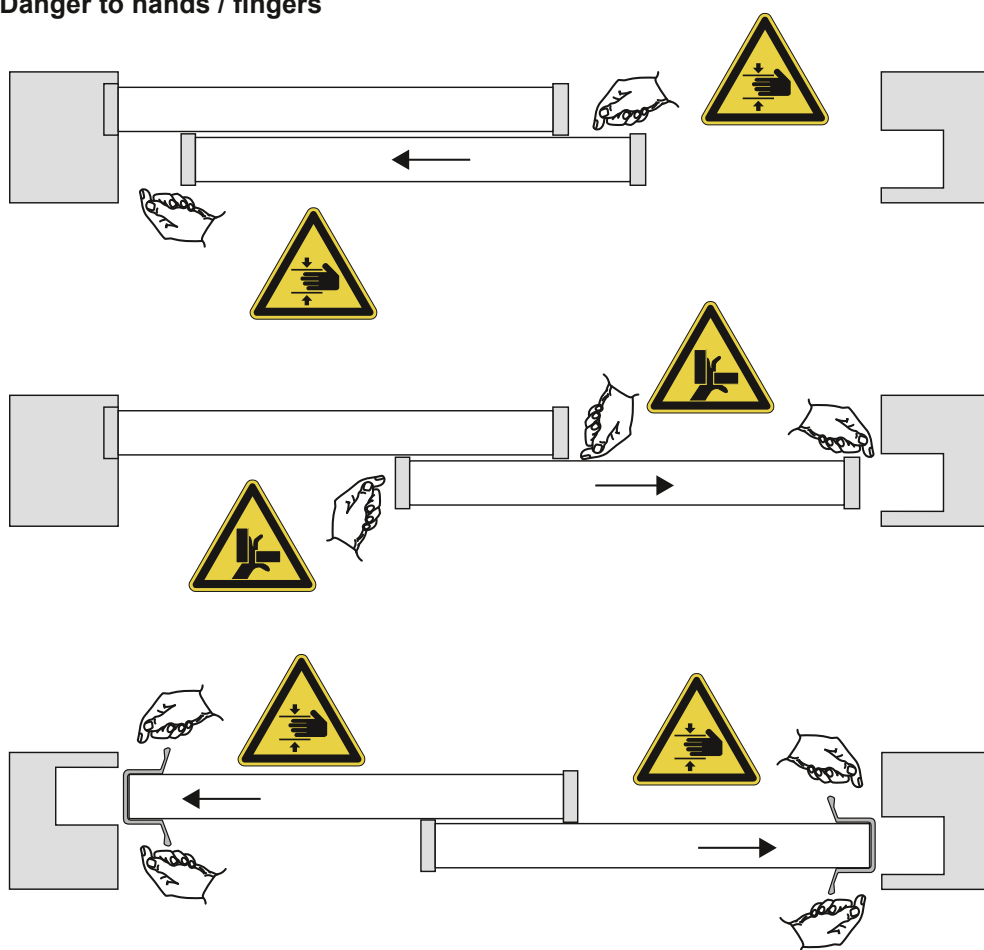
2.3. Safety instructions for sliding units



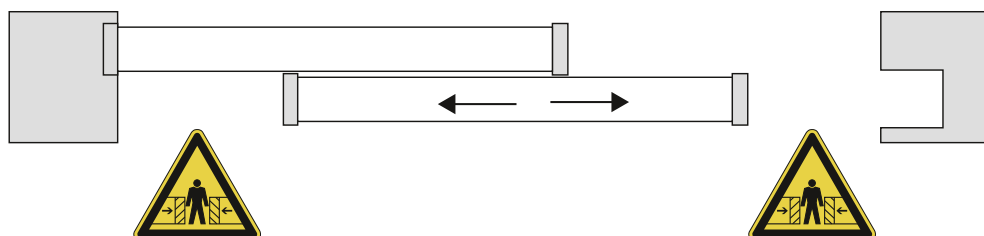
KEY WORD

When using aluminium units, take note of the hazards listed below.

Danger to hands / fingers



Danger for the body / head area

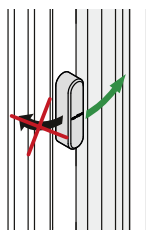


**CAUTION**

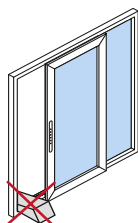
Note the following advice to prevent damage to the units.



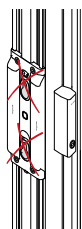
- Do not load extra weight onto the frame or handles. The additional load may cause deformation of the unit frame or damage to the handles.



- Operate the unit handles in the correct direction only and do not force them beyond the stop. The additional load may cause damage to the handles.



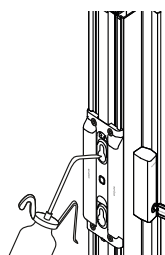
- Do not wedge anything between the vent and the frame. The additional load can cause deformation of the frame.



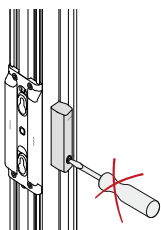
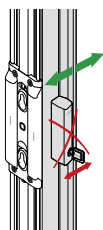
- The unit vent must NOT be locked when the vent is open. Closing the unit vent when the lock is engaged can damage the fittings.

**CAUTION**

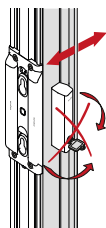
Note the following advice to prevent damage to the units.



- Any stiffness of the locks must be remedied immediately (oil/grease, replace if necessary).

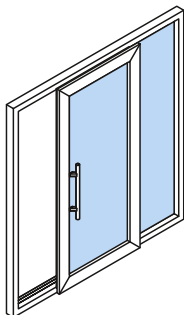


- Do not pull/push the doors using inserted keys.
- Do not insert any foreign objects into the keyhole.



- Do not operate the handles and the keys simultaneously.

2.4. Proper use



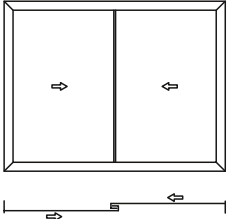
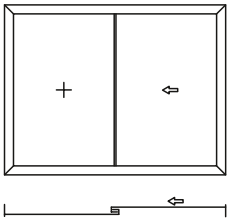
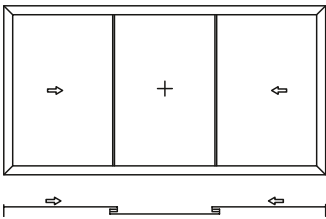
A sliding unit consists of a unit frame installed in a fixed position in the building and multiple fixed or horizontal sliding unit vents that are guided on rollers/roller carriages along the bottom.

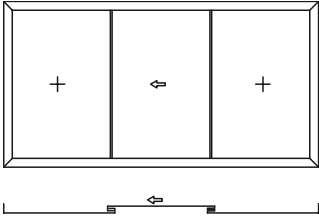
Incorrect use or unauthorised modification of the product may result in death or serious injury, or damage to the product and other material assets.

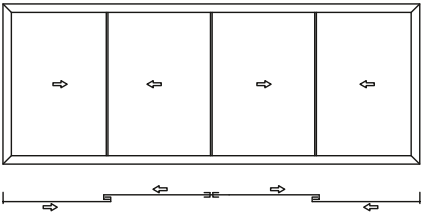
Only original replacement parts may be used. The manufacturer / supplier shall not be liable for any damage resulting from infringement. The user alone bears the risk.

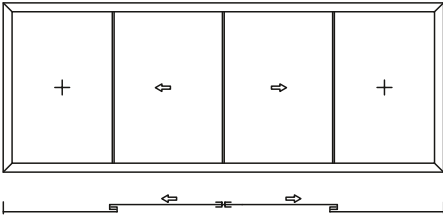
2.5. Sliding system options

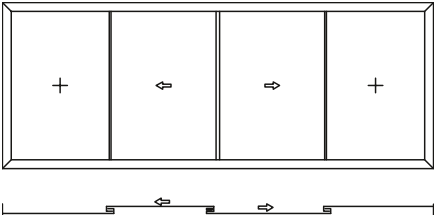
2.5.1. Manual

Overview of types			
	2A	2A/1	2B
Double-track			
ASS 77 PD	.HI Manual	.HI Manual	.HI Manual

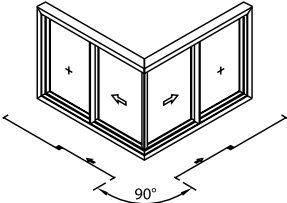
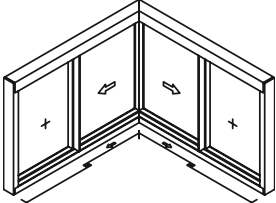
Overview of types	
	2C
Double-track	
ASS 77 PD	.HI Manual

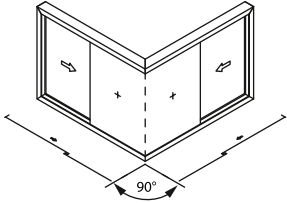
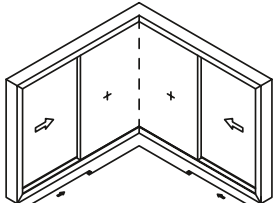
	2D
Double-track	
ASS 77 PD	.HI Manual

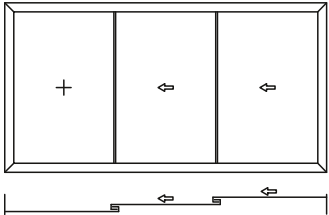
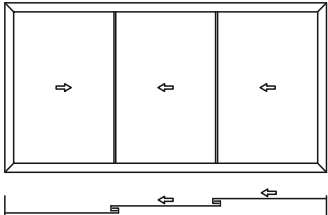
Overview of types	
	2D/1
Double-track	
ASS 77 PD	.HI Manual

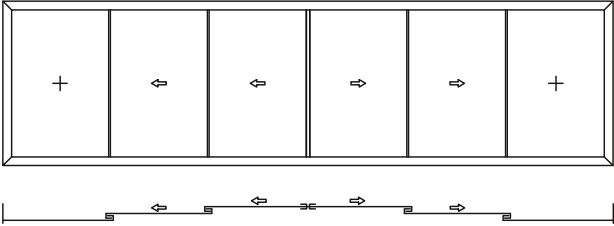
	2G/1
Double-track	
ASS 77 PD	.HI Manual

1 .NI – Non Insulation/Non-thermally insulated
.HI – High Insulation/Thermally insulated
.SI – Super Insulation/Highly thermally insulated

Overview of types		
	2D/1-90 A	2D/1-90 I
90° corner		
ASS 77 PD	.HI Manual	.HI Manual

Overview of types		
	2B-90 A	2B-90 I
90° corner		
ASS 77 PD	.HI Manual	.HI Manual

Overview of types		
	3E/1	3E
Triple-track		
ASS 77 PD	.HI Manual	.HI Manual

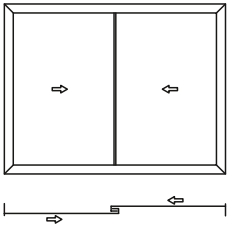
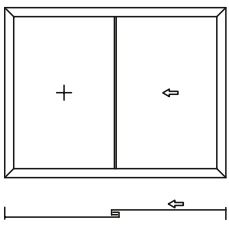
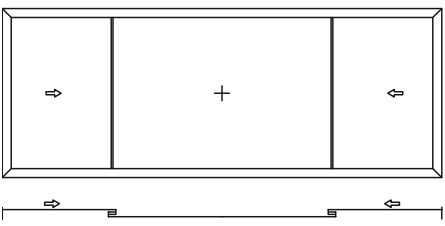
Overview of types		
	3F	
Triple-track		
ASS 77 PD	.HI Manual	

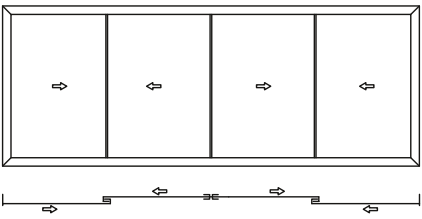
2.5.2. Freely configurable type

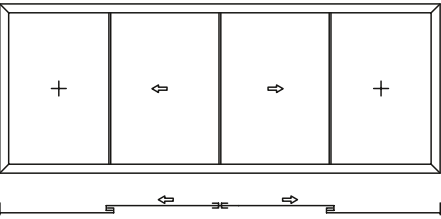
Overview of types

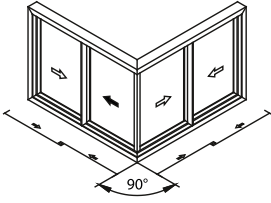
2.5.3. Mechatronic

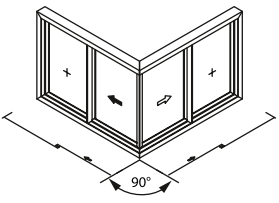
Overview of possible system types:

Overview of types			
	2A	2A/1	2B
Double-track			
ASS 77 PD	.NI .HI .SI	.NI .HI .SI	.NI .HI .SI

Overview of types	
	2D
Double-track	
ASS 77 PD	.NI .HI .SI

Overview of types	
	2D/1
Double-track	
ASS 77 PD	.NI .HI .SI

Overview of types	
	2D-90 A
90° corner	
ASS 77 PD	.HI

	2D/1-90 A
90° corner	
ASS 77 PD	.HI

Overview of types		
	2D-90 I	2D1-90 I
90° corner		
ASS 77 PD	.HI	.HI

Overview of types		
	3E / 1	3F
Triple-track		
ASS 77 PD	.HI	.HI

Overview of types		
	3F 90 A	3F 90 I
90° corner		
ASS 77 PD	.HI	.HI

2.5.4. Freely configurable type

Overview of types

2.5.5. Safety sensors in building structure

In order to ensure safe finger-trap protection, safety sensors can be installed in different places. Depending on where they are installed, additional sensors or other suitable safeguarding measures could be necessary.



INFORMATION

If the floor structure is changed (e.g. cork flooring instead of carpet), the sensors must be reset by the specialist.

Installation of safety sensors			
	2A	2A/1	2B
Safety class 2			
Safety class 4			

Installation of safety sensors		
	2D	2D/1
Safety class 2		
Safety class 4		

- 263 551 Safety sensor
- 263 104 Sensor strip
- 263 551 Safety sensor. Use in front of outer frame or in cover profile possible

Installation of safety sensors		
	3E/1	3F
Safety class 2		
Safety class 4		

Installation of safety sensors			
	2D-90 A	2D/1-90 A	3F-90 A
Safety class 2			
Safety class 4			

- 263 551 Safety sensor
- 263 104 Sensor strip
- 263 551 Safety sensor. Use in front of outer frame or in cover profile possible

Installation of safety sensors			
	2D-90 I	2D/1-90 I	3F-90 I
Safety class 2			
Safety class 4			

- 263 551 Safety sensor
- 263 104 Sensor strip
- 263 551 Safety sensor. Use in front of outer frame or in cover profile possible

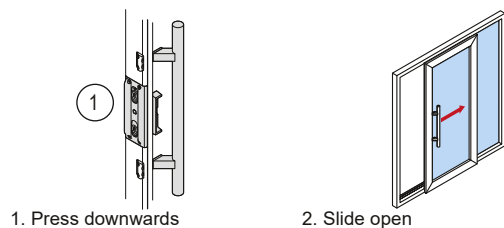
2.5.6. Freely configurable type

Installation of safety sensors

3. Manual operation

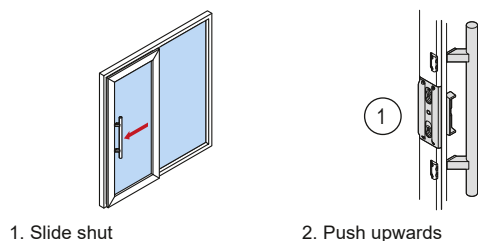
3.1. Sliding units

a.) Operation using a handle



Open

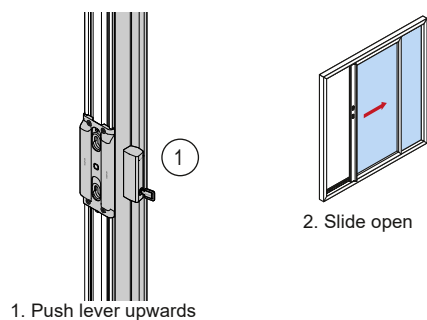
- 1.Unlock unit vent by pushing the retaining catch (1) upwards..
Signal colour = green
- 2.Push the unit vent open using the flush handle / door pull.



Close

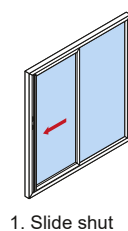
- 1.Push the unit vent shut using the flush handle / door pull.
- 2.Unlock unit vent by pushing the retaining catch (1) downwards.
Signal colour = red

b.) Operation with pull grip



Open

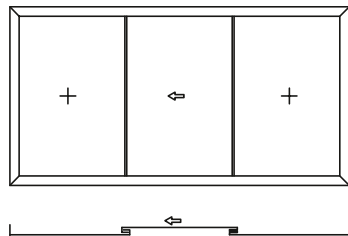
- 1.Unlock unit vent by pushing the retaining catch (1) upwards.
- 2.Push the unit vent open using the pull grip.



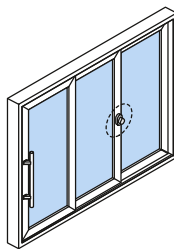
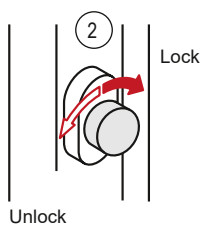
Close

- 1.Push the unit vent open using the pull grip.
- 2.Unlock unit vent by pushing the retaining catch (1) downwards.
- 3.Close unit vent (optional).

c.) Additional locking point in the interlock section



2C



Open

1. Press in turning knob of centre locking point (2) slightly and turn to the left (unlock).
2. Operate unit vent as described.

Close

1. Close unit vent.
2. Press in turning knob of centre locking point (2) until it engages and turn to the right (lock).

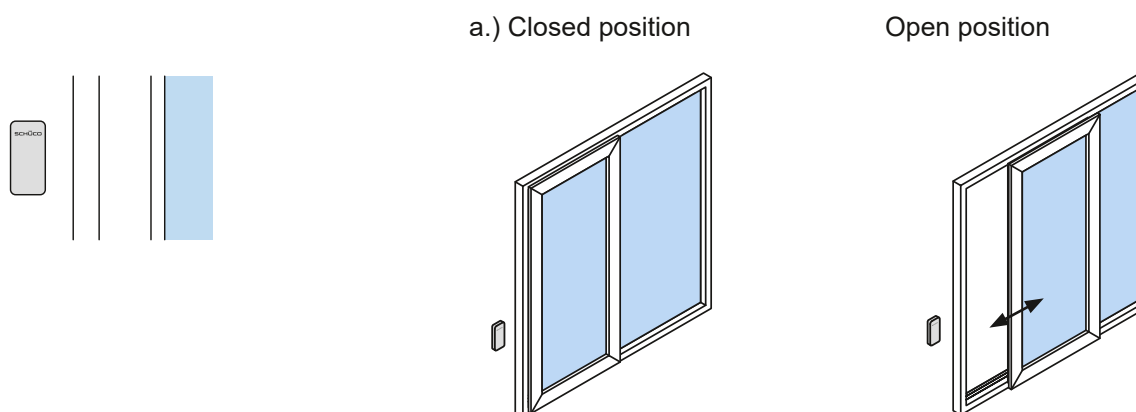
4. Mechatronic operation

4.1. Open/Shut/Lock

The moving vents run on rollers which are installed one behind the other for each track in the bottom profile of the frame. The moving parts of the door leaf are restricted by end stops (4.3) which are installed in the top frame profile.

The Schüco sliding unit can be operated as follows:

- Operation by means of switch (commercially-available wall-mounted switch)
- By means of Schüco communication bus (BUS / KNX switch)
- Operation by means of bus-compatible end devices such as a central building automation system, touchpad etc.



Operation by means of switch

Movement command	Description
Press "Open vent"	Vent opens
Press "Close vent"	Vent closes
Press "Open vent" or "Close vent" while the unit is moving	Vent stops during travel
Press "Open vent" and "Close vent" at the same time while the unit is moving	Vent stops during travel

4.2. Operation using the Schüco communication bus

The main control unit can be connected with its functions for the vent units in superordinate building automation systems (KNX/EIB).

The following movement commands can be sent to the building automation system:

Movement command	Description
Open/close vent	Vent opens/closes
Stop vent	Vent stops
Vent positioning movement (10 - 90%)	Vent moves into position

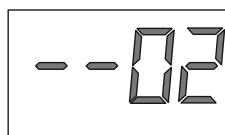
The following queries can be sent to the main control unit and the building automation system:

Notification	Description
Vent status	e.g. closed/locked/closed and locked
Vent position	e.g. current opening width in %

4.2.1. Procedure following power failure

Following a power failure, the vents only travel in the closing direction and at a slow speed.

Following a power failure, the notification "--02" is indicated on the control unit display.



- After a power failure, press the "Close" button for each vent - even if the vent is already locked. Afterwards, the system automatically switches back to the normal operating mode.

4.3. Manually-operated lock release



CAUTION

The vent must be unlocked by trained personnel / contracted partners only if there is a defect in the sliding drive, the control unit or the lock. If one of the components specified is defective, the client can also carry out the lock release with the aid of an unlocking tool. Re-commissioning of the system must be carried out by trained personnel.

5. Maintenance

First perform the following visual checks:

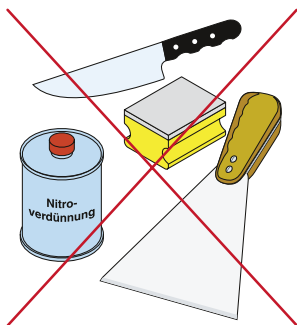
- » Check all vents and accessible gaskets for irregularities and glass breakages.
- » Check all switches for intactness/damage.

5.1. General information



CAUTION

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



Cleaning agents suitable for aluminium units are available from Schüco specialists.

Aluminium maintenance kit 298 672:

- Cleaner and preservative
- Stainless steel cleaner
- Grease stick to maintain gaskets
- Lubricating spray to maintain fittings

Maintenance products for anodised aluminium units:

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 (can also be used on stainless steel).

Universal aluminium cleaner 298 001

Removes stubborn grime, minor scuff marks and scratches.



5.1.1. General cleaning instructions



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

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

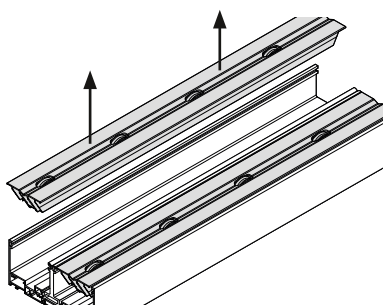


CAUTION

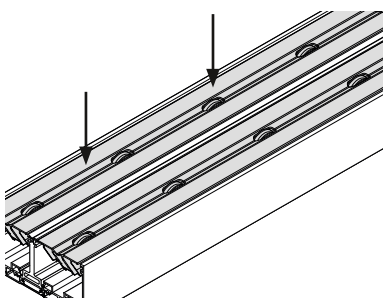
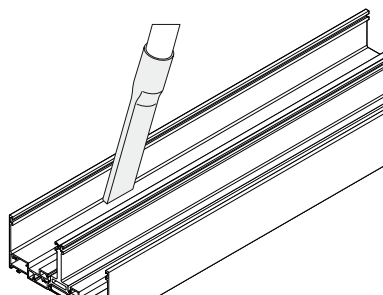
To prevent damage, observe the instructions for use given on the cleaning agent.

5.2. Cleaning the vent and frame

5.2.1. Cleaning the tracks and drainage slots

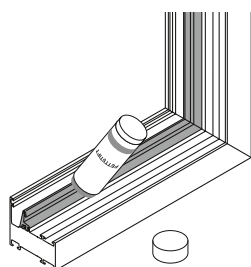


- ▶ Remove the roller profiles and clean these and the gutter. The unlocking tool is suitable for removing the roller profiles
- ▶ Then move all vents in the system into the “open” position. Check the rollers and drainage slot in the entrance area for dirt.
- ▶ Remove any dirt using a vacuum cleaner or a suitable cleaning agent. Blocked drainage slots can be cleaned using a cocktail stick or cotton bud
- ▶ Check the rollers for any damage and stiffness. Replace any damaged or stiff rollers.



The rollers must be inserted prior to closing the sliding unit.

5.2.2. Maintenance of gaskets



- ▶ Clean gaskets regularly. Special maintenance kits help to keep material elastic and to prevent premature ageing.
- ▶ Check the gaskets for damage.



CAUTION

Ask a Schüco specialist to replace any defective gaskets.

5.3. Maintenance

In addition to normal cleaning and maintenance, you should carry out a brief inspection of your aluminium units annually. This will extend the working life of the units and maintain ease-of-use.

Have power-operated units (e.g. with Schüco TipTronic mechatronic fittings) safety-checked at least once a year by a specialist company. Existing safety devices must also be checked. The test must be documented.



CAUTION

The fittings, window, door and facade units require specialist, systematic maintenance / care and inspection to ensure they maintain their value and remain fit for use and safe. Therefore, it is recommended to conclude a corresponding maintenance contract with a specialist window, door and façade company.



WARNING

- Risk of injury due to maintenance work carried out incorrectly. Incorrect maintenance could lead to severe injury or damage to property.

5.3.1. Maintenance contract

If these operating instructions do not answer all your questions, refer to your Schüco specialist for help. In addition to providing expert advice, a specialist company can advise you on particular modifications and repairs.

Schüco specialists can offer you the additional service of a maintenance agreement. Under the terms of the maintenance agreement, the Schüco specialist will undertake all maintenance and repair work. Your aluminium units will be maintained at their optimum functional performance and value without the need for additional resources.



CAUTION

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

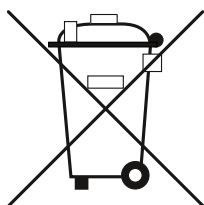
6. Decommissioning and disposal

6.1. Decommissioning

A specialist should dismantle the units.

6.2. Disposal

Commission a specialist to dispose of the units professionally.



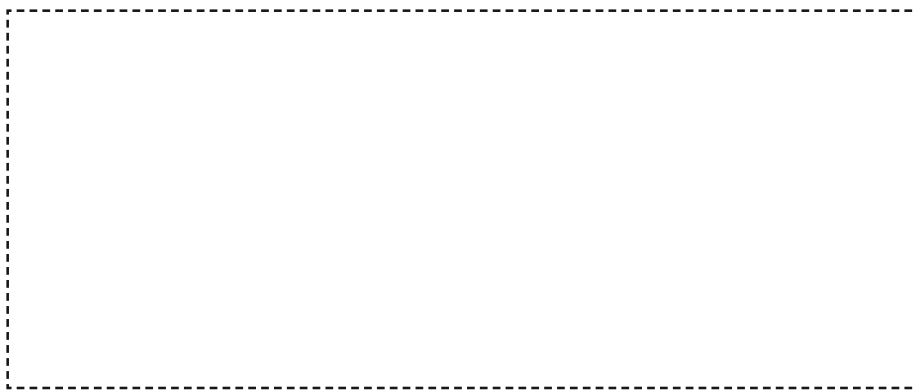
The materials used can be recycled. Observe the environmental requirements with regard to recycling, re-use and disposal of operating materials and components in accordance with the local, country-specific and internationally applicable technical regulations and official regulations. Make a contribution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



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Original instructions

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Company stamp

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