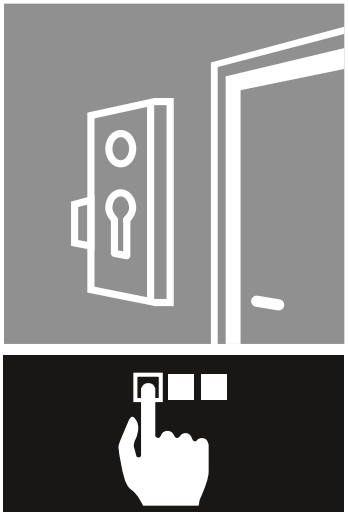

Art. No. 98540_01_EN/12.2020

Aluminium systems

Schüco doors

en Operating instructions for consumers

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1. Notes on these instructions

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

KEY WORD

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.
NOTE		Imminent danger of damage to property which may lead to damage to or destruction of the product or environment.
INFORMATION		Information Information, tips and advice

2.2. General safety instructions

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.

DANGER

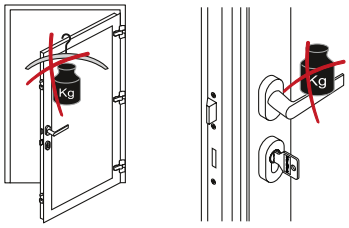
► When operating, note that unattended Schüco windows and doors may open and close due to external influences.

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.

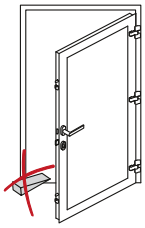
If you have any questions, please contact your specialist fabricator or your local Schüco sales representative.

DANGER

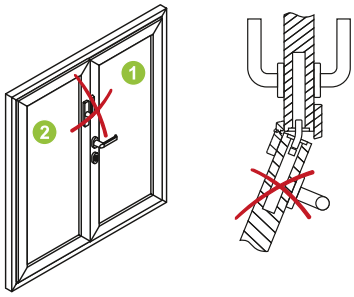
When using aluminium units, take note of the hazards listed below.



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.

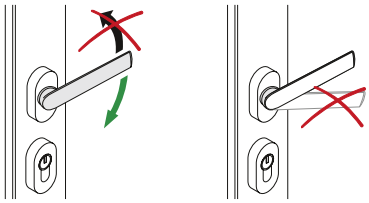


Do not wedge anything between the unit leaf and frame.
The additional load can cause deformation of the unit frame and fittings Fittings can be destroyed by excessive force.

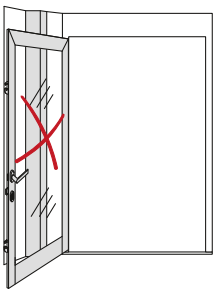


Double-leaf doors must NOT be opened using the secondary leaf (exception: panic doors).
The additional load can cause deformation of the frame or damage to the locks.

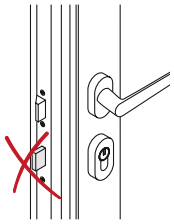
1. Access leaf with door handle
2. Secondary leaf



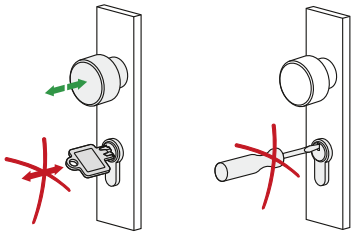
Operate the unit handles in the correct direction only and do not force them beyond the anti-turn stop.
The additional load can lead to damage to the unit handles.



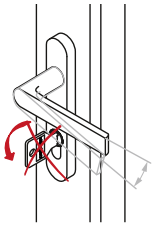
Do not rest the doors against projecting walls.
Damage to the doors may be caused by draughts slamming the doors open and shut.



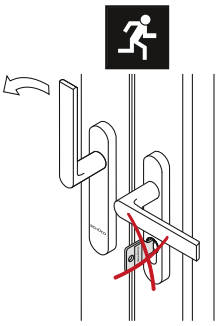
Do NOT turn the locks when the doors are open.
Closing the door when the lock is engaged can damage the door frame.



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.

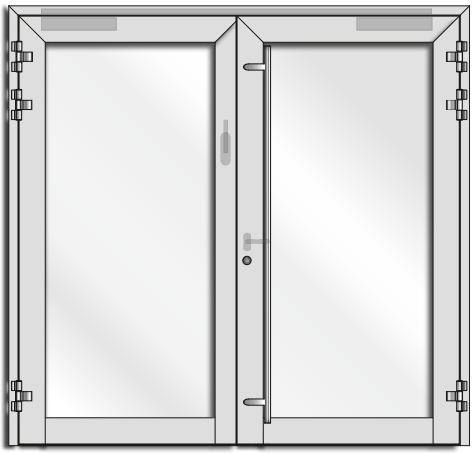


For emergency exit locks, the key must not be left in the lock.

2.3. Proper use

A door is a moving construction unit for closing an opening (in a wall, passageway or entrance) which allows passage through.

In large openings, double-leaf door units are used, with an access and secondary leaf.
The access leaf is always used first and has a lock and door handle.
The secondary leaf is fixed and can be opened if required by releasing a bolt, for example.



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. The manufacturer / supplier shall not be liable for any damage resulting from infringement. The user alone bears the risk.

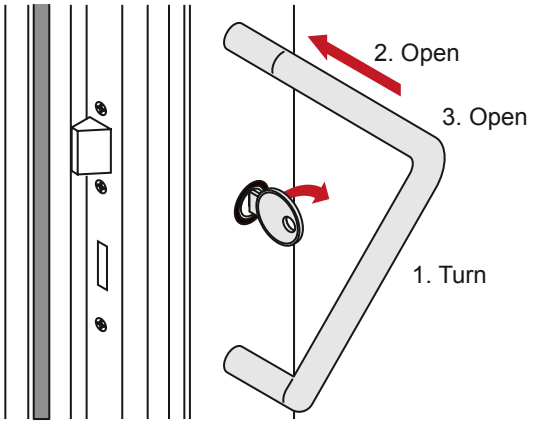
INFORMATION

In accordance with DIN EN 179, emergency exit doors are designed for buildings which are not open to the general public and where visitors are familiar with such doors. Such doors can include side exits in public buildings, which are used solely by authorised persons.
Panic doors in accordance with DIN EN 1125 are used in public buildings where visitors are unfamiliar with the function of these doors but must still be able to use them in an emergency without prior training. These buildings include, for example, hospitals, schools, public administration buildings, airports and shopping centres.

3. Operating a single-leaf door

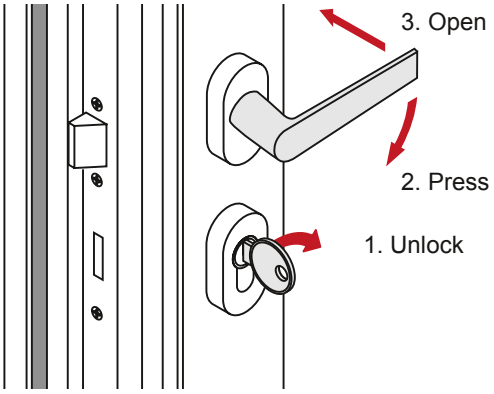
3.1. Opening a single-leaf door

3.1.1. Door pull, outside



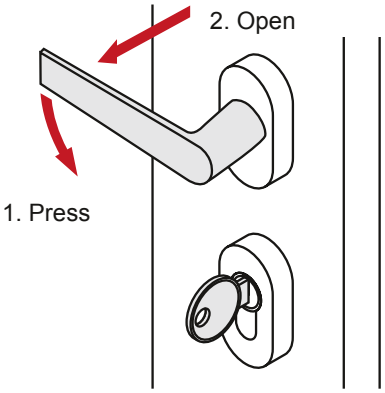
1. Turn the key against the spring to the right (towards the infill side) and hold for a short time.
2. Open the door slightly and release the key immediately.
3. Open the door.

3.1.2. Door handle, outside



1. Unlock the door by full turns of the key to the right (towards the infill side).
2. Press door handle down.
3. Open the door.

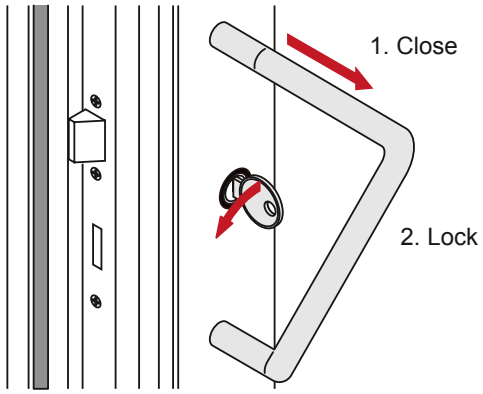
3.1.3. Door handle, inside



1. Press door handle down.
2. Open the door.

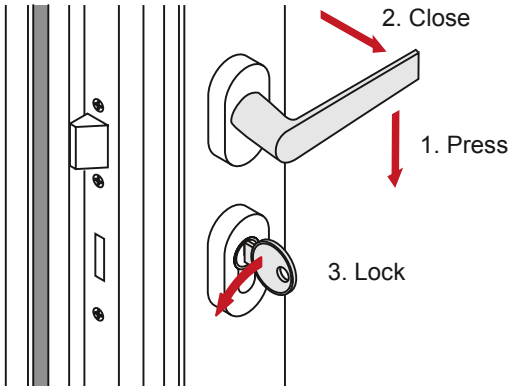
3.2. Closing a single-leaf door

3.2.1. Door pull, outside



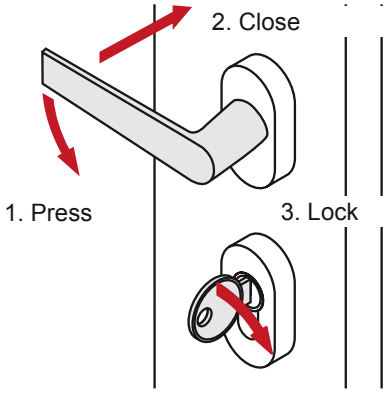
1. Close the door.
2. Lock the door by one full turn of the key to the left (towards the frame side).

3.2.2. Door handle, outside



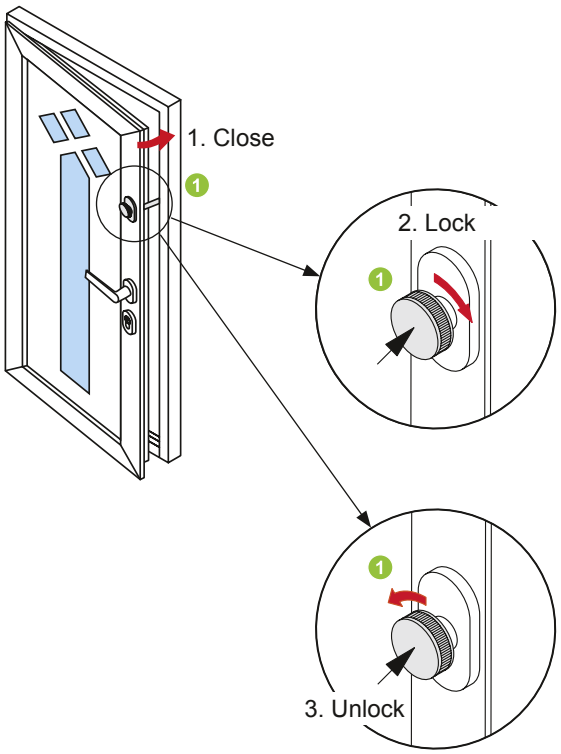
1. Press door handle down.
2. Close the door.
3. Lock the door by one full turn of the key to the left (towards the frame side).

3.2.3. Door handle, inside



1. Press door handle down.
2. Close the door.
3. Lock the door by one full turn of the key to the left (towards the frame side).

3.3 Single-leaf door with intruder catch



The intruder catch limits the opening angle of the door leaf to a small gap.The intruder catch must be re-engaged manually.

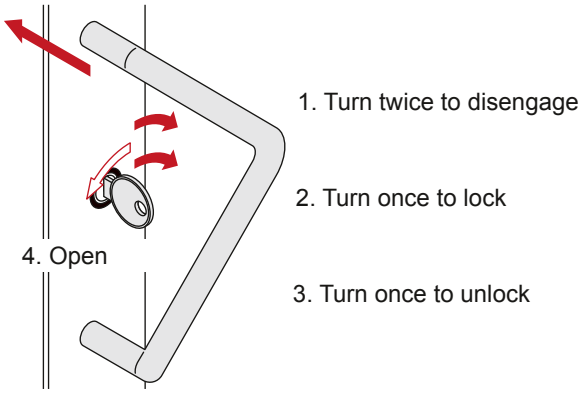
To engage the intruder catch:
1.Close the door.
2.Engage the intruder catch by rotating the thumb turn clockwise 1.
The door leaf can only be opened as far as the restrictor allows.

To disengage the intruder catch:
3. Disengage the intruder catch by rotating the thumb turn anti-clockwise 1.
4. The door leaf can now be opened wide.

INFORMATION

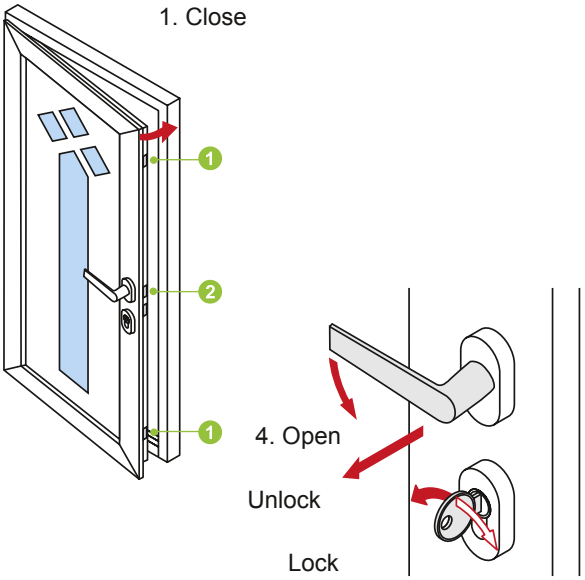
See points 3.1 / 3.2 for operation of the door handle and lock.

To disengage the intruder catch from the outside:
►The intruder catch can be disengaged from the outside by following a specific locking sequence.



Locking sequence:
1.Disengage the intruder catch by two full turns of the key to the right (towards the infill side).
2.Lock the door by one full turn of the key to the left (towards the frame side).
3.Unlock the door by one full turn of the key towards the infill side.
4.Turn the key against the spring to the right (towards the infill side) and open the door.

3.4 Single-leaf door with automatic locking



.This type of lock fitting has additional latches ❶ at the top and bottom of the door leaf.

Open / close door

1. The top and bottom latches lock ❶ the door automatically against it being opened from outside.
2. The door can be opened from the inside using the handle.

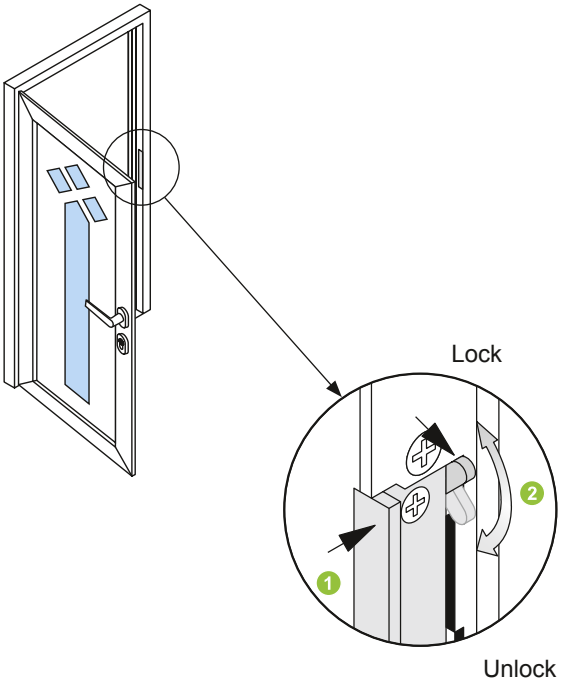
Fully lock the door

►Locking the door with the key ❷ prevents it from being unlocked from the inside. The door handle is now blocked!

Fully unlock the door

►The fully locked door can be opened from inside using the key (turning) and the handle.

3.5 Single-leaf door with electric strike



A separately mounted switch releases the closed door for opening.
Once released, the door can only be opened for as long as the switch is operated.

INFORMATION

The electric opener will not release the door if it has been locked using the key.

Daytime setting:

►For the daytime setting, the latch ❶ on the electric strike can be permanently disengaged. The door can be opened at any time if the latch is disengaged.

Engaging and disengaging:

►Engage or disengage the latch ❶ by moving the catch ❷.

3.6 Door with electric locking

Doors with electrically operated locking are opened and closed by a motor integrated into the door. They are operated by the door handle or by remote control.
For more information, see the separate operating instructions.

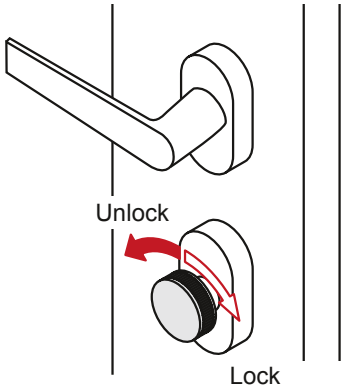
3.7Door with lock with electric coupling

These locks can be used with an outside handle with electric coupling on single or double-leaf doors with access control systems. For locks with electric coupling, the outside handle is engaged, i.e. the door handle allows access. The door handle can therefore be engaged and disengaged.

INFORMATION

The lock with electric coupling can be controlled centrally so that, when closed, the doors are immediately no longer accessible.
The door can be controlled by door opener switches, intercom systems, timers or access control systems.

3.8 Door with lock cylinder with locking thumb turn



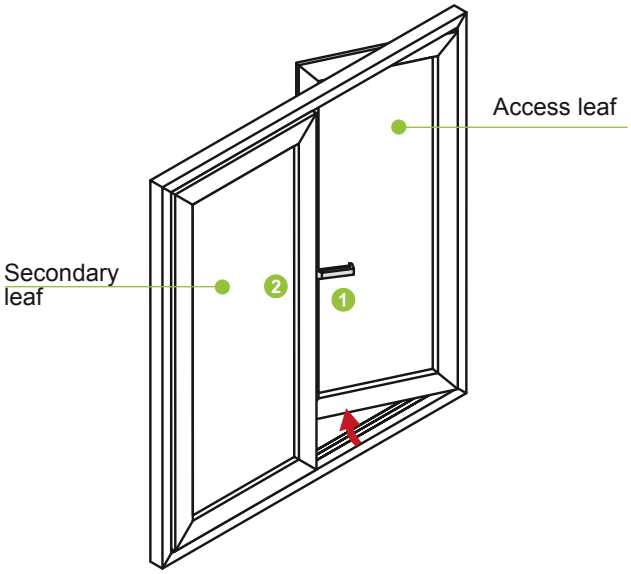
This locking cylinder is operated from the outside using a key and from the inside using the locking thumb turn.

Lock:
1. Close the door.
2. Lock the door by full turns of the locking thumb turn to the left from the frame side.

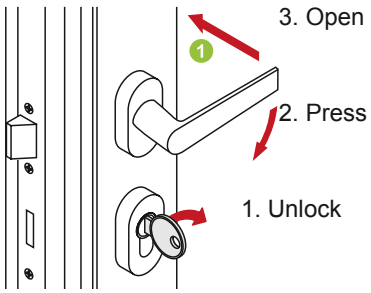
Unlock:
1. Unlock the door by full turns of the locking thumb turn to the left from the frame side.
2. Open the door.

4. Operating a double-leaf door

4.1. Opening a double-leaf door

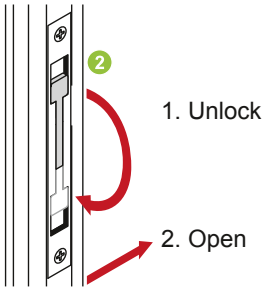


Opening the access leaf



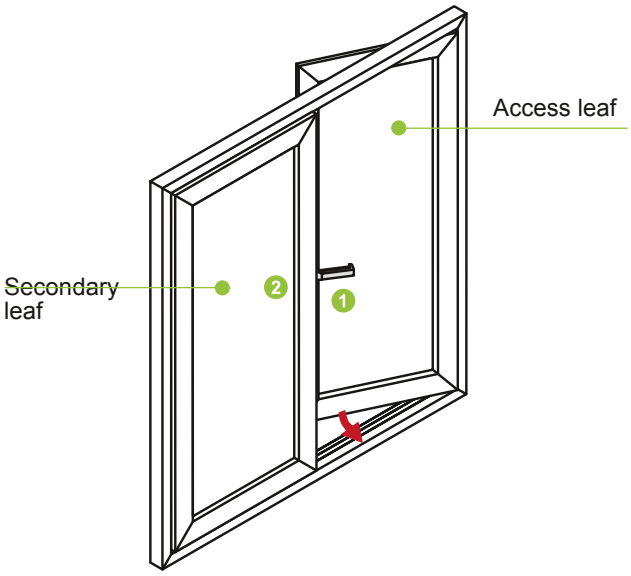
1. Unlock the door by full turns of the key towards the infill side.
2.
3. Press door handle down 1.
4.

Opening the secondary leaf

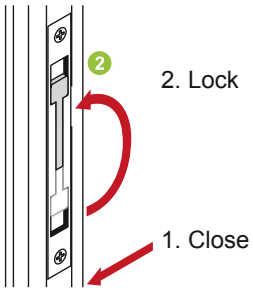


1. Open access leaf.
2. Release rebate lever 2.
3. Opening the secondary leaf.

4.2. Closing a double-leaf door

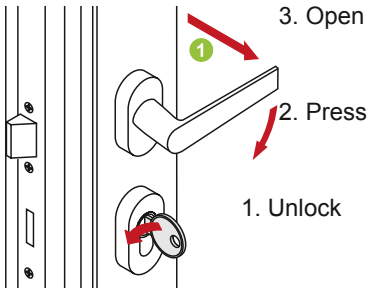


Closing the secondary leaf



1. Closing the secondary leaf.
2. Engage the rebate lever 2.
3. Closing the access leaf.

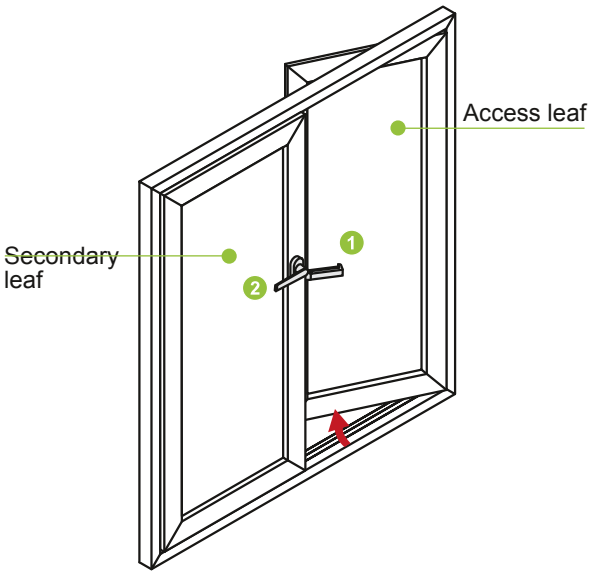
Closing the access leaf



1. Closing the access leaf.
2. Press door handle down 1.
3. Lock the door by full turns of the locking thumb turn to the left from the frame side.

5. Operating a double-leaf door with panic function

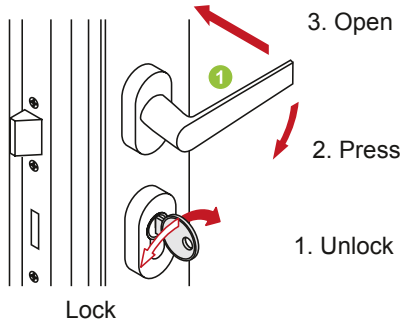
5.1. Double-leaf door with panic function and door handle



Emergency exits (DIN EN 179) are usually external doors and can be fitted with manual or automatic locks.
They can be opened easily from the inside without a key or other aid.

When the door is locked, one or both leaves can be opened without a key in an emergency using the door handle (DIN EN 179).

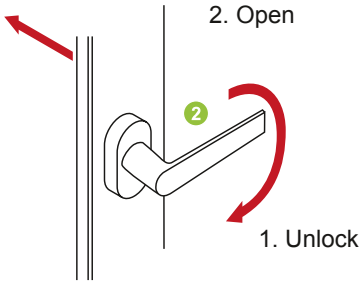
Opening/closing the access leaf



Opening the access leaf
1. Unlock the door by full turns of the key towards the infill side.
2. Press door handle down 1.
3. Open access leaf.

Closing the access leaf
1. Closing the access leaf.
2. Lock access leaf by one full turn (panic function) of the key towards the infill side.

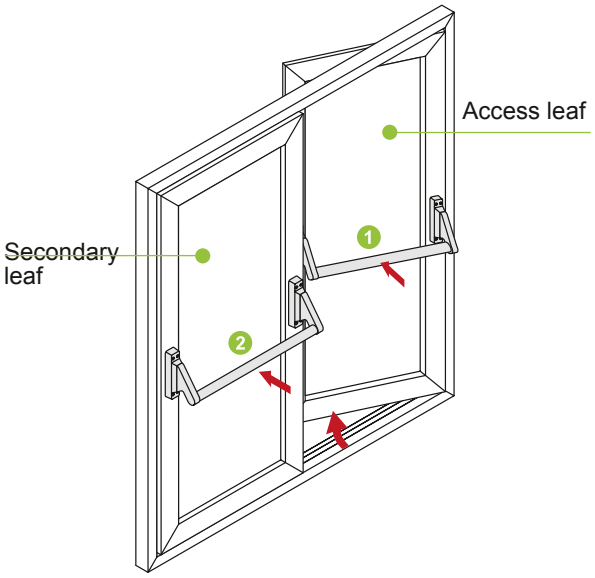
Secondary leaf (panic function)



Opening the secondary leaf
1. Press door handle down 1.
2. Press door handle down 2.
3. Open access leaf and secondary leaf.

Closing the secondary leaf
1. Close the secondary leaf first.
2. Then close the access leaf.

5.2. Double-leaf door with panic function and push bar

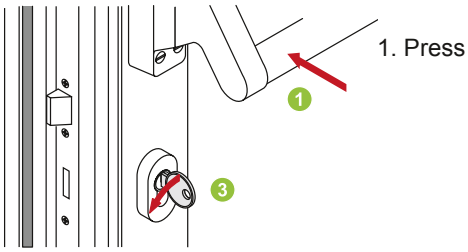


Locked doors can be opened in an emergency using the emergency push bars (DIN EN 1125).

INFORMATION

Always first lock the secondary leaf, then lock the access leaf.

Opening the access leaf (panic function)

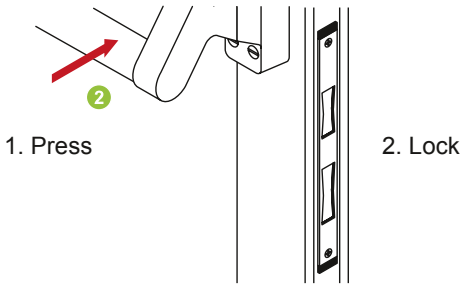


1. Press the emergency push bar ❶.
2. Push access leaf open.

To lock the access leaf:

►Close the access leaf and lock by one full turn of the key ❸ towards the secondary leaf.

Open secondary leaf (panic function)



1. Press the emergency push bar ❷.
2. Push secondary leaf open (access leaf is also pushed open).

To lock the secondary leaf:

1. Close the secondary leaf.
2. Locking is automatic using a special switch latch.

INFORMATION

To unlock secondary and access leaves:

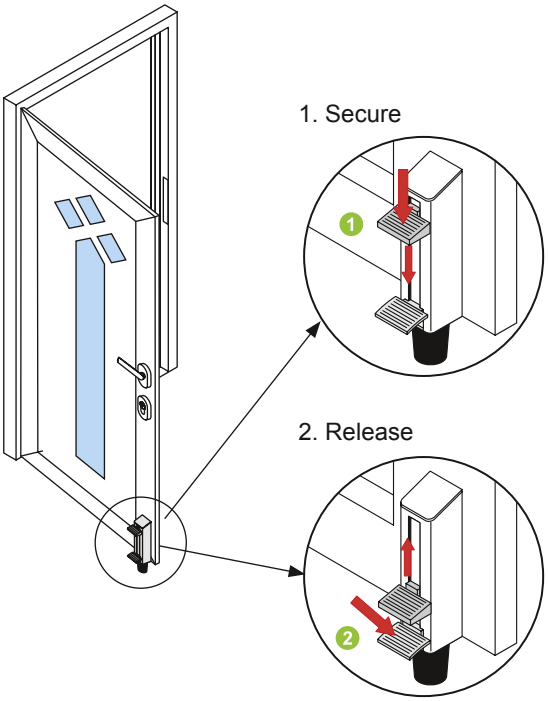
Both door leaves are unlocked by operating the emergency push bar on the secondary leaf ❷.
You can unlock only the access leaf by operating its emergency push bar.

6. Door accessories

6.1. Magnetic door stop

If the magnetic free-moving lever comes into contact with the metal floor plate, it is engaged and brought to a gentle stop at the end of the slot. The door stop is maintenance-free and can be retrofitted.

6.2. Door holder

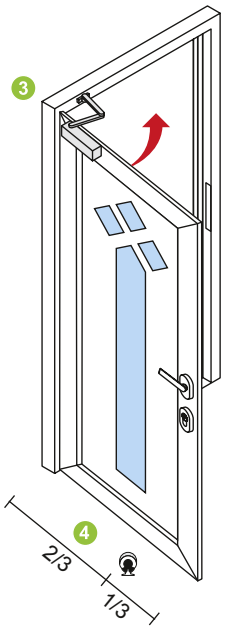


The door leaf can be fixed open using the door holder.

Secure :
►Secure the door holder by operating the pedal ❶

Release :
►Release the door stop by operating the release pedal ❷.

6.3. Door closer



The door closer ❸ automatically returns the door leaf to the closed position. Some door closers hold the door leaf in the wide open position.
To close the door, it must be pulled once in the closing direction, and thereafter it will close automatically.

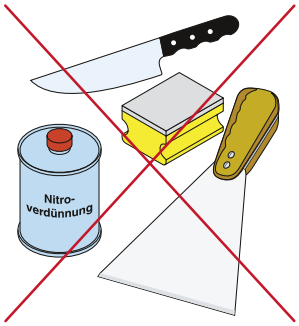
For door closers, as a rule, a door stop ❹ must be used.

7. Maintenance

7.1. Cleaning and maintenance products

NOTE

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
- Gasket cleaner
- Fittings spray
- Cleaning cloth

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.

7.2. General cleaning instructions

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

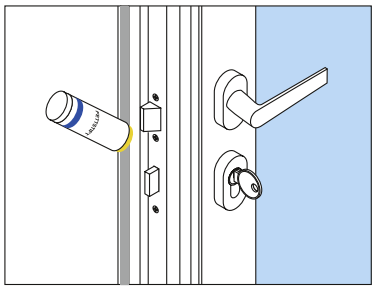
Solid substances
Plaster, mortar or similar is best removed using a wooden or plastic spatula.

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

NOTE

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

7.2.1. Checking and lubricating gaskets



►Rub all gaskets with a grease stick or Vaseline. This will maintain suppleness and prevent sticking.
►At the same time, check all gaskets for damage.

NOTE

Ask a Schüco specialist to replace any defective gaskets.

7.3. Maintenance

7.3.1. Maintenance contract

If these operating instructions do not answer all your questions, refer to your Schüco specialist for help or contact Schüco directly. In addition to providing expert advice, they can advise you on particular modifications and repairs.
Schüco specialists and Schüco International KG can offer you the additional benefit of a maintenance contract. Under the terms of the maintenance agreement, they will undertake all maintenance and repair work. Your units will be maintained at their optimum functional performance and value without the need for additional resources.

NOTE

The fittings in the window, door and façade 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 windows, doors and façades.

DANGER

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

NOTE

All repairs and modifications should be undertaken by a Schüco specialist or by Schüco International KG directly. Only repairs by a specialist using “original parts” ensure the continued correct operation of your Schüco units.
To conclude a maintenance contract with Schüco International KG, please contact Schüco directly:
Tel. +49 521 783 1111
serviceteam@schueco.com

7.3.2. Maintenance of fittings components

All moving parts of the fittings in your Schüco units are virtually maintenance free. However, a little acid-free oil and grease keep the mechanics smooth and ensure user comfort for a long period.

Only a light application is required at all points.
To avoid contamination, wipe off excess lubricant after lubrication.

NOTE

- ►The door hinges are maintenance-free and are not permitted to be lubricated or greased.
- ►Schüco fittings are generally lubricated in the factory. We recommend that any lubrication, maintenance and adjustment work is carried out at least once a year by a qualified specialist.
- ►Fittings components with an additional positioning and stop function, e.g. energy-absorbing limiting stays or vent brakes, must not be lubricated or oiled.

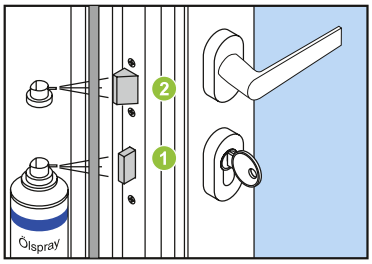
If required, Schüco fittings can be maintained with an acid and resin-free oil.

Lubricant spray 298 741
Grease 298 118

Maintenance work to be performed at least once a year (in school and hotel buildings every six months):

- ►Ensure fittings components are secure and check for any signs of wear. If required, tighten fixing screws and have a specialist company replace worn components.
- ►Grease all moving parts and locking parts of the fittings and check for proper functioning.

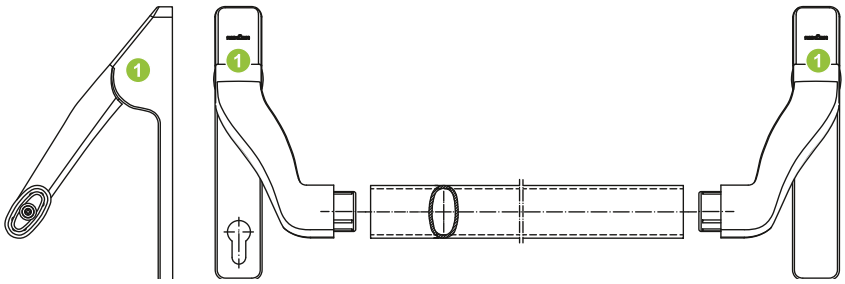
7.3.3. Door fittings components



For doors, the bolt ❶ and latch ❷ on the door lock must be lubricated as necessary.

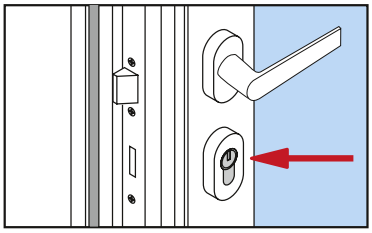
Before lubrication:
►Lock the door to expose the bolt.

After lubrication:
►Unlock the door to conceal the bolt.



For doors with a touch bar / push bar, the gearboxes ❶ on the left and right-hand side must be lubricated twice a year.
At the same time the tightness of the screws has to be checked and if required tightened.

7.3.4. Maintenance of locking cylinders



Depending on the loading, the locking cylinders must be maintained at least twice a year.
►Only use graphite powder to lubricate the locking cylinder.

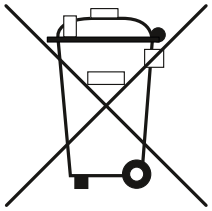
8. Decommissioning and disposal

8.1. Decommissioning

Commission a specialist to remove the units professionally.

8.2. 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.

Art. No. 98540/12.2020

en Original operating instructions

The "Schüco" logo and other logos are protected in Germany and various international markets. Detailed information is available on request.

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