Evolution installation instructions

OIKOS
ARCHITETTURE D'INGRESSO

1 Introduction

This manual aims to be helpful in order to facilitate the installation of an Oikos EVOLUTION armored door and give instructions for solving the most common technical problems. **Compliance with all the instructions given in this manual is an essential condition for maintaining all the performance characteristics of the product**. Some symbols have been used to highlight the more important parts of the text and their meanings are described below.

Important

Indicates technical information of particular importance that should not be ignored.

For every problem or particular case that is not described in this manual, please call your area dealer.

1.1 Performance characteristics

Oikos EVOLUTION is a line of armored doors with high performance characteristics.

Break-in Resistance class 3 / class 4

Sound Reduction

Thermal Insulation

Air Permeability

Water Tightness

Wind resistance

Fire Resistance

According to the model, the type of standard equipment and any additional kits, the above-listed characteristics can vary from door to door. Maintenance of the high performance characteristics is directly linked to correct installation and adjustment of the product following the instructions given below and to correct maintenance over time.

Important

All the performance characteristics have been measured in the laboratory and therefore under optimum installation and adjustment conditions. These performance characteristics may not achieve the same results in products installed at the work site because of the numerous variations of installation, adjustment, type of masonry, type of construction, etc.

Important

The handling and installation of an Oikos EVOLUTION armored door must be carried out exclusively by skilled technical personnel.

1.2 General instructions for handling and storage

- To guarantee safety, arrange suitable systems of transport, handling and storage bearing in mind the weight of the door (approx. 50 kg/sq metre).
- Do not expose the product to bad weather.
- Avoid exposure of the product to direct sunlight and excessive heat. They can cause sticking of the packing to the product and "softening" of the paint films.
- The product must be stored vertically with the top at the top.
- Avoid knocking the door in any way even when still packed.
- Before opening the packing, make sure you are able to proceed with the installation.
- If present, the protective films on the covering panels or whatever may be removed only after the installation operations are finished.

1.3 Unpacking

The product unpacking operations must be carried out with the greatest care to avoid marking, scratching or damaging
the product. Do not use cutters or other sharp tools to open the packing. The packing material must be disposed of in compliance with local waste disposal provisions on the basis of the following information regarding the materials used.

Expanded polystyrene	recyclable	plastic
Polyphrene film (wadding)	recyclable	plastic
Bubble wrap	recyclable	plastic
Cardboard	recyclable	paper
Plastic bands	recyclable	plastic

2 Standard supply

The standard supply consists of:

Single leaf
Package 1: leaf and frame packed together
Package 2: box of ironware

Double leaf
Package 1: packed main leaf
Package 2: packed secondary leaf
Package 3: packed frame
Package 4: box of ironware

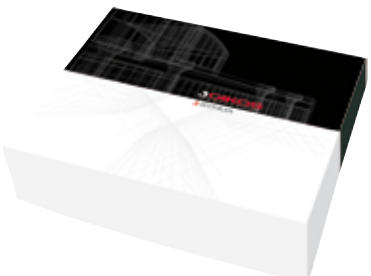
Important

The standard supply includes a supply of external finishing strips between frame and wall (3 rods) normally packed with the frame. These must be removed before positioning the frame on the wall hole.

Important

The standard supply (n° of packages, types of packaging) may be subject to change according to the actual composition of the supply (surrounds, special accessories, transom window, etc.).

Box of ironware (standard equipment)
This can be opened by the installer and contains everything necessary for installing the door and the sealed box of owner's keys.



Ironware and accessories
- kit of threaded inserts + M8x16mm screws for fixing the frame to the counterframe
- internal handle
- square extension bar for internal handle
- external knob (or long handle)
- kit of hinge caps
- plugs for frame fixing holes
- NO-AIR kit

Work site key and installation instructions
This is the key Oikos uses for tests during production and must be used for the functional checks during installation.
This manual is attached to the work site key.

Box of owner's keys
This is closed with a special tamper proof seal applied at source by Oikos, **<u>may be opened only by the user</u>** and contains:

- the owner's keys (according to the equipment of the lock type) in sealed bag
- the "user and maintenance instructions"
- products for cleaning and maintenance (if included).

3 Equipment

Ordinary equipment that installers are normally equipped with is necessary for installing Oikos EVOLUTION.

- Pencil and tape measure
- Straight edge
- Spirit level
- Plumb line
- Square
- Dustpan and broom
- Handling straps
- Stepladder with 4 steps
- Box(es) with sundry small parts and screws
- Blanket or cloth to lay tools on
- Spatulas and brushes
- Angle cropper (for wood and/or aluminium surrounds and profiles)
- Electric air compressor with attachments
- Plugging drill
- Drill
- Automatic screwdriver with clutch
- Pneumatic gun for nails/pins
- Jigsaw with kit of miscellaneous blades
- Gun for foam, silicone and chemical resin
- Hose/angle grinder with miscellaneous discs
- Extensions for electric cables
- Diamond floor grinder Ø 25 mm (for double leaf floor bush)
- Set of drill bits for drilling metal
- Set of drill bits for drilling masonry
- Set of drill bits for drilling wood
- Set of inserts for automatic screwdriver PH1, PH2, PH3
- Set of T handle hex keys
- Set of cross-tip and flat screwdrivers
- Spray lubricant (such as WD-40)
- Chemical resin (such as Fischer T-Bond)
- Polyurethane foam (such as Fischer Megamax Serramento P)
- Neutral silicone (such as Fischer SNF)
- Acrylic silicone (such as Fischer SA)
- Through bolts Ø 10x165mm (such as Fischer F10S165Z)
- Through bolts Ø 5x25mm (such as Fischer S5CV)
- Quick-setting mortar (such as Torggler Antol Umafix)
- Miscellaneous assortment of fillers, sealers, waxes, touch-up pens, etc.

4 Work site characteristics and preliminary checks

4.1 Fitting to counterframe

To ensure correct installation of Oikos EVOLUTION it is essential to check that the counterframe has been set into the wall perfectly. A little time spent checking the counterframe and verifying the installation situation will allow you to guarantee the best result at the end of the installation.

Important

According to the guidelines of Italian UNI standard 10818 "Windows, doors and screens - General Guidelines for installation" the fixing of the counterframe to the masonry wall is the competence and responsibility of the builder who guarantees it is plumb and level, and also guarantees the strength of the anchoring to the masonry wall.

Step 1

Clean the counterframe and remove all traces of mortar and plaster with special attention to the inside and outside edges and to the fixing boxes.

Step 2

Check that the height of + 100 cm from the finished floor is observed on both sides of the counterframe. The counterframe must "rest" on the finished floor. The system of coupling the frame to the counterframe allows the door to be installed with a sinking of the counterframe up to max. 10mm (see step 4).

Step 3

Check the width measurement in at least 3 points (top, bottom and centre). The nominal Hole Opening measurement must be observed with tolerance of ± 3 mm.

Step 4

Check the height measurement in at least 3 points (right, left and centre). The nominal Hole Opening measurement must be observed up to a maximum of 10mm sinking of the counterframe.

Step 5

Check that the jambs of the counterframe are plumb using a plumb line or a spirit level with a tolerance of ± 2 mm on the whole height.

Step 5a

Using a square, check that the counterframe profiles are at the correct angle to the internal-external plaster line, verifying in at least 3 points (top, bottom and centre) that there is no twisting along the whole profile.

Step 5b

Check the head of the counterframe with a spirit level. It must be "level" with ± 2 mm tolerance over the width.

Step 6

Using the spirit level, check the floor surface in the area that the door moves over. It must be "level" with ± 2 mm tolerance.

4.2 Fitting directly to the wall

Step 1

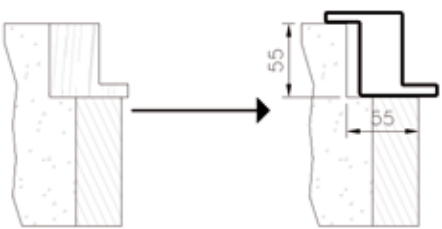
Before removing the old door, check that the dimensions of the hole will allow the installation of the new door.

Step 1a

Check base and hole height with reference to the daylight opening measurements of the new door.

Step 1b

As you remove staff beads or finishing surrounds, if present, check that there is adequate housing (embrasure) where to position the frame.



Step 2
Check for the presence of wiring, switches, etc. near the opening and near the points where the frame will be anchored to the wall.

Step 3
Check the solidity and structure of the wall that must be sufficient to support the anchoring of the frame, the weight of the installed door and stresses in the event of an attempted break-in.

Step 4
Using the spirit level, check the floor surface in the area that the door moves over. It must be "level" with ± 2 mm tolerance.

5 Fitting the frame

5.1 Fixing the frame to the counterframe

Step 1
Position the threaded inserts in the special fixing boxes along the vertical profiles of the counterframe taking care to centre the threaded hole with the windows on the box.

Step 2
Apply polyurethane foam (such as Fischer MEGAMAX SERRAMENTO P or similar) along the vertical profiles of the counterframe, between the fixing boxes and along the head.

Important

The foaming is essential to guarantee correct thermal and acoustic insulation and prevents vibration and creaking.

Step 2a

If the door is an external one in conditions of high exposure to bad weather, sealing with silicone (such as Fischer SNF or similar) must be carried out between frame and counterframe along the three sides with particular attention to where the frame rests on the floor.

Important

Before positioning the frame on the wall hole, the external finishing strips normally packed with the frame must be removed.

Step 3

Insert the frame in the counterframe and fix it to the threaded inserts with M8x16 screws (supplied in the box of ironware). If necessary, clamp the frame temporarily with clamps or other method to the wall. At this stage, you must check that the frame and, in particular, the hinges are plumb (using the plumb line with with bracket for

hooking onto hinge), that the frame adheres perfectly to the counterframe and that there is no twisting.

Step 3a

Before finally locking the frame in place, the external finishing strips must be fitted by inserting them between the frame and counterframe.

Step 3b

Check the opening measurements (base and height), referring to the nominal dimensions with ± 2 mm tolerance.

Important

Out of plumb parts and excessive twisting or large dimensional differences can compromise the good operation of the door.

Step 3c

When you have finished fixing the frame to the counterframe, close the fixing holes with the special plugs supplied.

Step 4

Remove the brace at the base of the frame, being careful not to scratch the paint. Keep the screws that fixed the brace because you will need them in the next step.

Step 5

Fix the NO-AIR floor plugs with finned gasket on both sides with the screws from the brace.

Important

The NO-AIR floor plugs are indispensable for having the best floor sealing against draughts and guarantee the level of acoustic insulation of the product.

This accessory is not present in the cases of Oikos step, Mose kit or simple floor step.

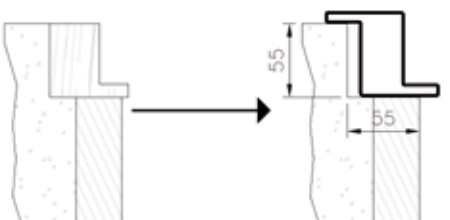
5.2 Fitting the frame directly to the wall

Step 1

Remove the old door being careful not to damage the parts that may have to be reutilized (e.g.: surrounds).

Step 1a

Remove the frame and the counterframe, if present, being careful not to damage the plaster, to obtain a housing (embrasure) that is sufficient for positioning and fixing the frame to the wall.



Step 2

Mark the positions of the fixing holes prepared on the frame on the embrasure, for example by marking them with a pencil.

Step 2a

Apply polyurethane foam (such as Fischer MEGAMAX SERRAMENTO P or similar) along the vertical profiles and along the head, being careful to leave a gap next to the fixing points.

Important

The foaming is essential to guarantee correct thermal and acoustic insulation and prevents vibration and creaking.

Step 3

Position the frame on the opening obtained, centre it on the architectural hole and clamp it temporarily with wooden wedges and/or clamps. Check that its hinges in particular are plumb, using a plumb line with bracket for hooking onto hinge, that there is no twisting and that it is square and check the base and height measurements with ± 2 mm tolerance.

Important

Out of plumb parts and excessive twisting or large dimensional differences can compromise the good operation of the door.

Important

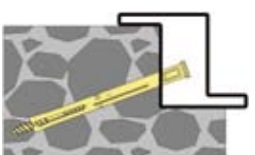
Before positioning the frame on the wall hole, the external finishing strips normally packed with the frame must be removed. These can be used as a finish between frame and wall, if required.

Step 3a

Through the fixing holes prepared on the frame, inject to fill the space between frame and wall a sufficient quantity of chemical resin (such as Fischer T-Bond) or similar) and wait for it to set.

Step 3b

Using a plugging drill with a suitable drill bit, drill the wall in line with the fixing holes on the frame. It is advisable to use the second hole on the back of the frame that allows you to incline the drill bit towards the centre of the wall.



Step 3c

Fix the frame to the wall with expansion bolts of at least Ø 10 x 165mm (such as Fischer F10S165Z) or other similar or better fixing method suitable for the type of masonry.

Step 4

Remove the brace at the base of the frame, being careful not to scratch the paint. Keep the screws that fixed the brace because you will need them in the next step.

Step 5

Fix the NO-AIR floor plugs with finned gasket on both sides with the screws from the brace.

Important

The NO-AIR floor plugs are indispensable for having the best floor sealing against draughts and guarantee the level of acoustic insulation of the product.

This accessory is not present in the cases of OIKOS step, Mose kit or simple floor step.

Step 6

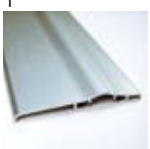
Fit the finishing surrounds, if any.

6 MOSE threshold

This is a particular aluminium threshold that forms part of the MOSE kit for Air - Water - Wind tightness, and in view of the importance of the performance obtained with the application of the MOSE kit, it is essential that installation of the threshold is carried out with the greatest care, especially as regards the sealing work.

The threshold consists of 3 components:
1. Aluminium threshold
2. Aluminium clamping insert to be fixed to the floor
3. Plastic fitting elements

1



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3

6.1 Fitting the MOSE threshold for single leaf

Step 1

Trim the clamping insert to the Daylight Opening measurement + 45 mm and position it with the two plastic fitting elements fitted on the ends butted up against the frame.

Step 1a

Fix the floor clamping insert with through bolts Ø 5x25mm (such as Fischer S5CV or similar) with centre-to-centre distance of at least 40cm over the whole width of the door.

Step 2

Trim the aluminium threshold to the daylight opening measurement.
Remove the plastic fitting elements from the clamping insert and slot them into the ends of the aluminium threshold.

Step 3

Apply silicone to the base of the frame and along the external edge of the clamping insert.

Step 4

Clip the threshold onto the clamping insert.

6.2 Fitting the MOSE threshold for double leaf

Important

The MOSE threshold can be positioned only after finishing the installation of the double leaf door, after all the adjustments have been made and after the floor well has been positioned.

Step 1

Trim the clamping insert to the Daylight Opening measurement + 45mm and position it with the two plastic fitting elements fitted on the ends butted up against the frame. The insert must be trimmed next to the floor bush to allow it to rest correctly on the floor.

Step 1a

Fix the floor clamping insert with through bolts Ø 5x25mm (such as Fischer S5CV or similar) with centre-to-centre distance of at least 40cm over the whole width of the door.

Step 2

Fit the central plastic fitting element onto the piece of threshold with the hole for the floor bolt and trim from the opposite end until you obtain perfect alignment of the hole on the threshold with the floor well.

Step 2a

Trim the other piece of aluminium threshold to the measurement necessary for it to be positioned between the central plastic fitting element and the fitting element on the hinge side of the opening leaf.

Step 3

Apply silicone to the base of the frame and along the external edge of the clamping profile.

Step 3a

Couple the three plastic fitting elements with the two pieces of aluminium and clip the threshold onto the clamping insert.

7 Fitting the leaves to the frame

Important

During this stage, handle the leaf very carefully to avoid overturning it or damaging the facings and/or the finishing profiles. The specific pallet can be used for handling the leaves.

With the leaf in door-open position at 90°, make sure the pins are present in the frame hinges and then hang the leaf on the frame.

This operation must also be carried out for the other leaf if the door is a double leaf one, with the necessary floor well application operations.

Step 1

Using special tools (e.g.: diamond floor grinders for marble), drill the hole for placing the well in line with the lower bolt. A 25 mm Ø and 40 mm deep hole should be made.

Step 2

Insert the well that will have to be fixed with chemical resin or marble filler or other binder.

Important

Before drilling the floor, make sure there are no ducts, heating systems, etc.

Important

Before fixing the floor well, check the alignment between the two leaves, that there is no excessive play and that the main leaf butts up correctly against the semi-fixed leaf.

7.1 Adjustments

Step 1

Adjust the hanging height of the door by turning the grub screw of the frame hinges with a 6 mm hex key. The theoretical gap between leaf and floor is 5 mm. After finishing the height adjustment, you can fit the hinge caps.

Important

The adjustment is correct when the weight of the door is borne and distributed over all the hinges.

Step 1a

If necessary, carry out a width adjustment by turning the frame hinge fixing and adjustment screws situated on the internal doorstop of the frame. The hinges can be moved to the right or left by ± 3 mm from the central factory set position.

Slacken the front holding screw by 2 turns with a 5 mm hex key.

Adjust the two position grub screws with a 3 mm hex key. Screwing in moves the leaf towards the hinge side, screwing out moves it towards the lock side. Each rotation through 360° causes the hinge to move by 1mm.

After finishing the adjustment, fully tighten the three holding screws with a 5 mm hex key.

Important

Always make sure you have correctly tightened all the holding screws after finishing the adjustment.

Important

Failure to follow the instructions given above could cause irreversible damage to the product, and also result in risks to the user's security.

Step 2

Adjust the closing of the door by working on the strike plate fixed to the lock side of the frame. Slacken the central screw with a cross-tip screwdriver, move the plate to the required position by turning the side adjustment screw with a 2.5 mm hex key (screwing in increases the pull of the latch, screwing out reduces it), and then secure in position by fully tightening the central holding screw again.

Important

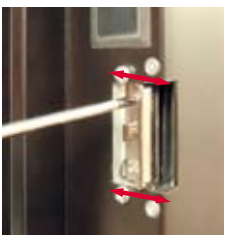
For correct operation of the door, the adjustment must always be checked. The latch must be easy to open with the key from outside and, at the same time, the door must not have excessive play.

Important

The side adjustment screw must always rest against the frame to have correct operation of the strike plate.

Step 2a

If the door has an electric strike plate, adjust it by turning the relevant screws.



Important

The electric strike plate must be powered only with 6-12V≈0.5-0.8 A current.

Step 3

Adjust the draught excluder with a 3 mm hex key by turning the piston that is accessible, with the door open, from the doorstop on the hinge side; screwing in or out increases or decreases the travel of the draught excluder. It is important to verify, with the door closed, the most suitable position for the best closing of the gap under the door.

Important

The presence of a step or a dentil between the threshold and the internal floor, even if very small, could wear out the sealing strip over time and compromise the good functionality of the draught excluder.

Important

To maintain the acoustic insulation, air tightness and thermal insulation characteristics, the draught excluder must always be adjusted correctly.

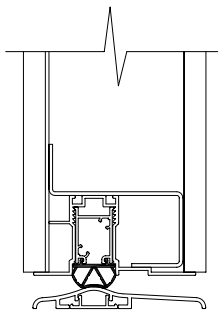
7.2 MOSE threshold adjustments

To guarantee the correct tightness of the MOSE Threshold, it is necessary to carry out an accurate adjustment of the compression of the sealing strip fitted under the door.

Step 1

If necessary, work on the side adjustment of the hinges (see point 7.1 - Step 1A) to obtain perfect alignment between the sealing strip under the door and the floor threshold.

Step 2



As you adjust the height of the leaf (see point 7.1 - Step 1), check that the sealing strip closes fully against the floor threshold. The right compression will cause you to feel a slight friction on closing the door.

7.3 Locking and releasing the second leaf

Step 1

Pull on and extract the control knobs situated on the doorstop of the second leaf.

Step 2

To release, turn the knobs to release the secondary leaf. As you do this, it may be necessary to keep the leaf pushed against the frame to facilitate the release of the bolts.

Step 3

To lock, butt the secondary leaf up against the frame and turn the knobs to make the bolts come out and lock the secondary leaf.

Step 4

Finally, re-insert the knobs by pressing them against the doorstop.

7.4 Fitting the ironware and accessories

Step 1

Fix the handle on the internal side of the door by first inserting the square extension bar in the lock (to lock it in place, just screw on the nut). Then screw the handle onto the panel with the relevant screws supplied, apply the washer and tighten the locking grub screw.

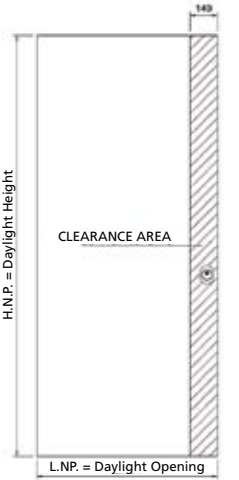
Step 2

If included, fix the control knob of the opening limiter by first inserting the square extension bar in the lock (to lock it in place, just screw on the nut), position the knob

and drill 2 holes of diam. 3.5 mm in line with the fixing screws to drill the sheet metal support under the panel, and fix the knob with the screws supplied.

Step 3

Fix the external accessories (knob, handle, knocker, etc.) using the relevant screws supplied. To do this, first drill the panel and the sheet metal underneath with a metal drill bit of suitable diameter, and then fix the supports, if any, and finally the accessory with its washers and locking grub screws. When fixing the external accessories, pay attention to the clearance areas.



Important

If accessories are fixed in the clearance strip of the lock area, the mechanics of the lock could be irreversibly damaged.

For doors with TEKNO fitting, the fixing of the external handle is already defined in the factory, so all that needs to be done is to fix the relevant mounts in the prepared holes and fit the handle.

Important

The fixing of particular accessories not described in this manual is indicated in the instructions provided with the specific accessory.

8 Maintenance work

Important

Replacement of components with non-original spare parts will reduce the security characteristics and invalidate the guarantee.

8.1 Replacing the cylinder

To replace the cylinder, it must be in key out position without the key inserted.

Step 1

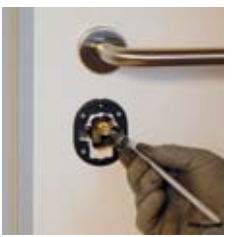
Using a 2.5 mm hex key, remove the locking grub screw and take off the knob and the extension covering bush (this operation is not necessary if it is a key - key cylinder).

Step 2

Remove the plate around the cylinder with the aid of a screwdriver.

Step 3

Using a 4mm hex key, slacken the cylinder locking screw.



Important

Be very careful not to let the screw fall inside the door.

Step 4

Take out the cylinder.

Important

If the cylinder does not slide out of the lock, turn the extension clockwise and anticlockwise slightly as you take it out.

Step 5

Using a 4mm hex key, remove the transverse screw fitted on the cylinder. To re-fit the cylinder carry out the above sequence in reverse order.

Important

Never lubricate the cylinder.

8.2 Fitting extension and knob on cylinder

Step 1

Insert the extension on the cylinder rotor and lock it in place with the grub screw using a 2.5 mm hex key.

Step 2

Insert the covering bush and the knob on the extension, and fix with the grub screw using a 2.5 mm hex key.

Important

The covering bush must be able to rotate freely around the extension.

To remove the extension and the knob from the cylinder, carry out the above sequence in reverse order.

Important

The standard 35 mm extension will allow 9 mm to 17 mm thick internal panels to be fitted. Above this measurement, the 50 mm extension for 18 mm to 33 mm panels must be used.

8.3 Removing the telescopic defender

Step 1

Using a 2.5 mm hex key, remove the locking grub screw and take off the knob and the extension covering bush (this operation is not necessary if it is a key - key cylinder).

Step 2

Remove the plate around the cylinder with the aid of a screwdriver.

Step 3

Using a 5 mm hex key, slacken the defender fixing screws without taking them out of the lock.

Important

If it is necessary to take the defender fixing screws out of the lock, be very careful because they could fall inside the door.

Step 4

Remove the defender.

To re-fit the defender, carry out the above sequence in reverse order.

Important

The standard equipment of the telescopic defender allows 9 mm to 16 mm thick external panels to be fitted. Above this measurement, the 34 mm defender for 17 mm to 27 mm panels must be used.

8.4 Replacing the draught excluder

Step 1

With the door fully open and starting from the bottom, remove the aluminium seal-bearing doorstop from the hinge side and move it aside just enough to uncover the draught excluder.

Step 2

Slide out the draught excluder

Step 3

Being careful to insert the anchoring correctly, insert the new draught excluder until it is locked correctly in its seat.

Step 4

Fix the seal-bearing doorstop in its original position again.

Important

It may be necessary to carry out an adjustment of the new draught excluder as described in point 7.1.

8.5 Replacing the external panel

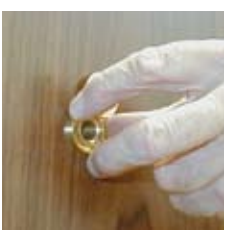
Before removing the panel from the leaf, check the dimensions of the new panel and the dimensions and position of the holes (lock, spy hole, etc.).

Step 1

Remove any accessories (knobs, handles, etc.) fixed to the leaf.

Step 2

Remove the spy hole by unscrewing the external and internal part simultaneously.



Step 3

Remove the keyhole escutcheon (on doors with double-bitted lock) or the telescopic defender as described in point 8.3.

Step 4

Remove the aluminium seal-bearing doorstop by unscrewing the screws around the outer edge.

Important

When removing the frame profiles from the leaf, be careful not to detach the joints, between jambs and head, of the external sealing strip otherwise they will have to be glued back on again.

Step 5

Unscrew the panel fixing screws around the whole outer edge (vertical edges and top edge).

Step 6

Remove the panel or slide out the sheets if the facings are TEKNO.

Important

Along the bottom edge, the panel is stuck to the leaf with a bead of silicone (TEKNO excluded).

To re-fit the external panel, carry out the above sequence in reverse order being careful to fix the bottom edge of the panel with double sided adhesive tape and a bead of silicone.

8.6 Replacing the internal panel

Before removing the panel from the leaf, check the dimensions of the new panel and the dimensions and position of the holes (lock, spy hole, etc.).

Step 1

Remove the handle (sequence of point 7.4 in reverse order), the cylinder knob and the escutcheon (point 8.1).

Step 2

Remove the spy hole by unscrewing the external and internal part simultaneously.

Step 3

Remove the panel-fixing angle pieces on the two vertical edges and on the top edge (Tekno excluded).

Important

Carry out the operation with care, being careful not to damage the surrounds if they are to be re-fitted.

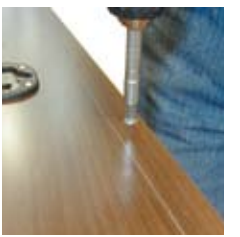
Important

Remove the surround fixing pins.

For doors with TEKNO fitting, you will only need to remove the frame profile.

Step 4

Unscrew the panel fixing screws around the whole outer edge (vertical edges and top edge).



Step 5

Remove the panel or slide out the sheets if the facings are TEKNO.

Important

Along the bottom edge, the panel is stuck to the leaf with a bead of silicone (TEKNO excluded).

To re-fit the internal panel, carry out the above sequence in reverse order being careful to fix the bottom edge of the panel with double sided adhesive tape and a bead of silicone.

8.7 Replacing the lock

For a door with cylinder lock, proceed as in point 8.1 and 8.3 to remove cylinder and defender, otherwise go to the next point.

Step 1

Remove the internal panel (point 8.6).

Step 2

Detach the switchlock operating rods.

Step 3

Unscrew the lock using a 10 mm spanner.

Step 4
Extract the lock.

To fit the new lock, carry out the above sequence in reverse order.

Important

Before re-fitting the panel, test the functionality of the new lock fitted and if necessary clean and lubricate the internal moving parts and the switchlocks with spray oil (such as WD40 or similar).

Important

Never lubricate the lock or the cylinder.

8.8 Lubrication operations

In normal conditions of use, the door does not require special lubrication. Anyhow, if it becomes necessary to carry out lubrication operations, strictly follow the instructions given below.

Lubricating the hinges

Remove the upper cap and put in a small amount of spray oil (such as WD40 or similar).

Lubricating the bolts

With the door open, make the bolts come out completely. Spray a small amount of spray oil (such as WD40 or similar) on the bolts (upper and lower)

making it penetrate inside the door and carry out a few opening and closing cycles.
Clean the seal-bearing doorstop.

Lubricating the latch

With the door open, spray a small amount of spray oil (such as WD40 or similar) making it penetrate inside the door and carry out a few latch retraction cycles.
Clean the seal-bearing doorstop.

Lubricating the rotating disc of the defender

Spray a small amount of spray oil (such as WD40 or similar) making it penetrate where the disc rotates, and carry out a few rotation cycles.
Clean off excess lubricant.

Important

Except for as described above, lock and cylinder must never on any account be lubricated.

Important

Lubrication should never be carried out too frequently and large amounts of lubricant must not be used.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