

Tekno use and maintenance instructions

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1 Introduction

Thank you for choosing OIKOS for your house, office or store. Tekno represents the most innovative trend in contemporary interior design applied to entrance safety doors. By choosing Tekno, you have purchased a product featuring the highest quality, technology and design standards typical of “Made in Italy” products. It is manufactured using atoxic materials, fully recyclable, produced by OIKOS in full compliance with the certifications it holds with regards to the international ISO 9001 “Quality Management System” and ISO 14001 “Environmental Management System” standards.

With this manual, which is an integral part of the product, we would like to provide you with some useful information on the correct use of a Tekno internal safety door and on how to perform routine maintenance works. This manual was drawn up by OIKOS to provide all necessary information for a correct use of Tekno. Dedicating some time to reading this information will allow you avoiding useless risks and damages. Keep this manual for

the entire life-cycle of the product, storing it in a known and easily accessible place, in order to have it always available when it is necessary to refer to it.

To highlight some particularly relevant parts of the text symbols are used, whose meaning is described here below.



Important

It highlights particularly relevant technical information that shall not be neglected.



CAUTION!

It indicates the operations that shall be performed only by an expert technical installer.

For any issue or specific case not described herein, refer to your area dealer or to specialized personnel.

1.1 Performance characteristics

Oikos Tekno is a line of entrance safety doors featuring high performance characteristics, with several ranking levels according to the type of selected model and to the optionally installed performance kits.



Break-in resistance
Class 3



Acoustic insulation 43 dB



Fire resistance EI 90



Air



Water



Wind

All these product performance characteristics were laboratory measured under ideal installation and adjustment conditions. For some of these performance values it is not possible to assure the attainment of the same results in the installed product due to reasons not linked to the product but rather to the type of fitting, construction (materials, construction systems, etc.), fitting technique and to the adjustment possibilities.

1.2 Destination of use

Pedestrian internal safety door for civil and commercial buildings. Avoid improper uses and uses not suitable for this product. Do not try to remove the door from the frame for any reasons whatsoever. Any work not described in this manual, including disassembly of the door or of parts of it, shall be carried out by specialized personnel.



Important

The replacement of components with non-original spare parts results in the decay of the performance characteristics and warranty.

1.3 Disposal

For the disposal of the product refer to local waste collection systems and separate product parts according to the information provided and the composition of the product given here below.

Leaf structure:

sheet metal, steel profiles, metal components

Frame:

steel and aluminum profiles

Closing profiles:

aluminum

Sealing strips:

PVC

Facings:

wood-base panels, solid wood, in case coupled with stainless steel, glass, ceramics.

2 Delivery of the door

The door is delivered to the user, after installation pursuant to the fitting specifications set forth by OIKOS, together with all accessories, and properly operating. The delivery occurs when the sealed box containing the owner's keys is given to the user.



Important

Make sure that the owner's keys box is delivered to you untouched and properly sealed.

During all production and testing steps at the factory and during the installation, a building site key has been used for your OIKOS door. At the end of the installation **the building site key has to be disabled** through a special procedure described under point 3. In this way, maximum control on the keys is assured, starting to use the owner's keys contained in the proper sealed package.

No. 1 Security Card for Red Key

This is the owner's card for the keys. It is important to store the Security Card carefully in a safe place, as this is the only document showing the legitimate ownership of the keys and it is required to create duplicates of the emergency owner's keys. (See point 11 for the requested mode to attain key duplicates.)



2.2 Supply of Basic cylinder owner's keys box

The standard supply includes:

No. 3 black regular use owner's keys.

These are the keys to be used for the entire life of the door after having disabled the building site key.



No. 1 owner's card

for regular use owner's keys. It is important to keep the "owner's card" carefully in a safe place as this is the only document showing the legitimate ownership of the keys. (See point 11 "Key duplication").



3 Combination change

Your Tekno door features a high safety cylinder that can be re-coded; this means it is possible, at any time, to modify the coding of the keys opening and closing the door.

3.1 Disabling of the building site key for Basic and Interactive cylinder

Once the installation is completed, the building site key has to be disabled. Insert the owner's keys in the cylinder, rotate it by at least 360° degrees. Now, the building site key **cannot be used anymore**.

From now on, the door has to be used only with the regular use owner's keys.

3.1.1 Disabling of the owner's keys for Oikos Interactive cylinder

In the event of loss of control over the regular use Gray Owner's Keys, it is possible to make their operation void by using the suitable Disabling procedure.

Insert the Red Key in the cylinder, rotate it by at least 360° degrees. Now **all** regular use Gray owner's Keys **cannot be used anymore**.

From now on, the door can be used only with the Red Emergency Owner's Key. It is necessary to request key duplicates (See point 11 for information on how to request duplicates) or the replacement of the cylinder.



CAUTION!

The cylinder has to be replaced with an original spare part by expert technical personnel. Refer to your dealer.

4 Door opening and closing

“**Closed door**” means a door leaning against the frame, being fully locked (dead bolts completely inserted in the frame). If the door is leaning against the frame and it is blocked only by the latch, the door is said to be “**ajar**” (not safe).



Important

The greatest and only safety condition is attained exclusively when the door is in “closed door” status.

- Avoid slamming the door while closing it.
- Watch out for the presence of children while opening and closing the door.
- Do not use the lock and handle in a violent manner.
- Do not leave the door flung open with extracted dead bolts.
- Do not lean the hands on the frame when you need to close the door.

4.1 Opening and closing from outside

To open the door insert the key in the lock and rotate it until the dead bolts are fully retracted, and the latch has been released from the frame. The last half turn, which releases the latch, may be a little “hard” to be performed; you just need to pull the door slightly to you acting simultaneously on the knob/long handle and on the key.

For doors with external handle, after having retracted the dead bolts using the key, you just need to act on the handle to release the latch.

To close the door move the leaf against the frame until the latch is hooked. Now, just insert the key in the lock and rotate it until the dead bolts are completely inserted in the frame.

5 Adjustments

Along the time and using the door, it may be necessary to perform some adjustments. Some of them can be easily performed with few tools following the instructions given here below; others, instead, require being performed by specialized personnel.



CAUTION!

All adjustment operations not specifically described herein shall be performed by qualified personnel. Refer to your area dealer.

5.1 Height and width adjustment

If the door shows a wrong height from the floor (usually it is 5-6 mm), adjust the hinges as follows:

Step 1

Remove the hinge covering elements on the frame side and remove the aluminum screw cover plates.



Important

Pay attention when removing the aluminum screw cover plates because they may bend.

Step 2

Door height adjustment.



Act on the adjustment screw positioned on the upper part of the hinges; unscrewing and screwing them with an 6 mm Allen wrench it is possible to correct any height misalignment.

Step 3

Door width adjustment.

Act on the anchoring elements fastening the hinges to the frame, by loosening the fixing screws by two turns with a 6 mm Allen wrench; then, adjust the positioning screws using a 3 mm Allen wrench. By screwing them up, the leaf moves to the lock side;



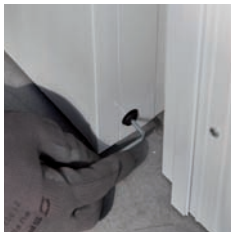
by unscrewing them, it moves to the hinge side. (One 360° rotation corresponds to 1 mm shift). Once the adjustments have been made, tighten the fixing screws.

Step 4



Once the adjustment is complete, fit the hinge covering elements back to its place.

5.2 Draught excluder adjustment



If necessary, adjust the draught excluder. Using a 3 mm Allen wrench act on the small piston that is accessible from the strike plate on the hinge side with open door. By screwing and unscrewing, it is possible

to respectively increase or decrease the stroke of the draught excluder. With closed door, it is important to check which is the most suitable position to attain the best closing of the opening under the door.



Important

The draught excluder attains its maximum effectiveness on perfectly smooth and flat surfaces (e.g. marble). This does not occur if the threshold is made of stone or terracotta tiles, or if it is excessively warped; in this case, the draught excluder sealing strip cannot close properly and will tend to become worn quickly.

5.3 Latch strike plate adjustment



To adjust the latch strike plate, act on the side adjustment screw using a 2.5 mm Allen wrench (by screwing it up, the latch stroke is increased; by unscrewing it, it is decreased).

5.4 Sealing strip adjustments on MOSE threshold

To assure the correct seal of the MOSE threshold, it is necessary to perform a correct adjustment of the compression of the sealing strip mounted under the door. If necessary, act to improve the compression of the sealing strip on the threshold. By adjusting the leaf height (see point 5.1), verify the total closing of the sealing strip against the floor threshold. The right compression has to create a slight friction while closing the door.

6 Lubrication

Under normal use conditions, the door does not require specific lubrication. In any case, if it is necessary to lubricate it, carefully follow the instructions given here below.

6.1 Hinge lubrication



Remove the plugs covering the hinges and insert a small quantity of spray oil along the pin of the same (type WD40 or similar). Lubricate the hinges at least once a year.

6.2 Dead bolts lubrication



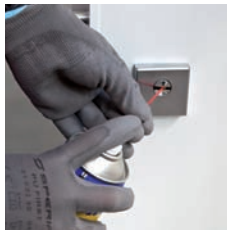
With open door, let the dead bolts come out completely. Spray a small quantity of spray oil (type WD40 or similar) on the (upper and lower) dead bolts letting it penetrate inside the door and perform some opening and closing cycles. Clean the strike plate. Lubricate the dead bolts at least once a year.

6.3 Latch lubrication



With open door, spray a small quantity of spray oil (type WD40 or similar) letting it penetrate inside the door and perform some latch extraction and retraction cycles. Clean the sealing strip holding plate. Lubricate the latch at least once a year.

6.4 Lubrication of the defender rotating pad



Spray a small quantity of spray oil (type WD40 or similar) letting it penetrate into the pad rotating seat and perform some rotation cycles. Remove any excess lubricant.



Important

Except for the operations mentioned above, locks and cylinders shall never be lubricated for any reasons whatsoever.

Remark: Lubrications shall never be too frequent and shall not involve the use of great quantities of lubricant.

7 Overall cleaning

Keep the frame, sealing strip holding plate, hinges dead bolts and panels always clean and dusted, paying specific attention to the most hidden points. Keep the door always dry.

8 Maintenance of the panels

8.1 Routine cleaning

At least every six months, clean all the panel surface as described.

- a)** Dust the panel surface with a soft cloth.
- b)** Run homogeneously on all the panel a soft cloth soaked in a solution of water and neutral detergent (e.g. dish-washing liquid) after having squeezed it out well.



Important

Avoid cleaning using alcohol or aggressive or grainy detergents.

- c)** Run again a soft cloth soaked in water on the panel in order to remove any residues of detergents and dirt. Rinse the cloth often during this last step.



Important

During the cleaning, especially during the first 2-3 cleaning of the panel, it is normal (especially with lacquered panels) for the paint film to leave some color on the cloth used for cleaning the panel.

8.2 Cleaning of steel and satin aluminum

These elements have to be kept constantly clean to avoid the deposit of dust on the satin finish consequently staining the material.

9 Cleaning of accessories

Accessories and handles have to be cleaned periodically using a soft cloth moistened with water or a neutral detergent (e.g. glass cleaning detergents) that shall not be sprayed directly on the accessory but on the cloth.



Important

Avoid cleaning using products containing alcohol or aggressive or grainy detergents (like Polish or the alike) and pads for polishing metals.

10 Troubleshooting

This paragraph describes the main problems that may occur during the use of a safety door and how to solve them.

10.1 The key does not enter into the cylinder

- Verify that the key is the right one.
- Verify that the key is in horizontal position.
- Verify that the pad of the key inlet on the defender is in the right position.
- Verify that the key is not deformed due to fall or tear; in this case it cannot be used any more.
- From the key inlet hole, verify that there are not any foreign elements on the cylinder (glue, dirt, wax, etc.); in this case, the cylinder needs to be replaced.
- Verify the absence of break-in attempts; should this be the case, it is necessary to replace the cylinder.



Important

The key shall be kept always clean and in good status.

10.2 The key enters in the cylinder but turns without engaging

- It is normal if the key performs maximum one 360° turn by rotating idly.
- If the key bit is very torn, this problem may be due to this; therefore, proceed as follows:
- Use another key and discard the torn one.
- If you do not own any other key, try to insert the torn key and, by pushing it firmly inside, try to open the door; otherwise refer to the customer service.
- If the key is not damaged, it means that some cylinder internal components are torn; therefore, it is necessary to replace it. To open the door, try to insert the key and rotate it by pushing it firmly inside; if the door opens, replace the cylinder; otherwise, refer to the customer service.



Important

From inside, the door works in any case using the knob.

Remark: It is normal that the internal cylinder knob shows some play.

10.3 It is difficult to rotate the key/to open the door

Try to lock the door keeping it open.

If the door works well, the problem is due to a leaf-frame-misalignment resulting probably from door settlements. It is necessary to refer to specialized personnel to perform an adjustment.

If the lock is “hard” to be controlled also keeping the door open, proceed as follows:

- Verify that the internal cylinder knob shows some play.
- Lubricate the (upper and lower) dead bolts as described under point 6.2.

- Lubricate the anti-drill pad at defender key inlet as described under point 6.4.
Should the problem still persist, refer to specialized personnel to have the lock be verified.

10.4 Door opening and closing is not so smooth or creaks

- Lubricate the hinges (see point 6.1).

10.5 The door touches the floor

- Adjust the hinges as described under point 5.1. After the adjustment of the hinges it may be necessary to adjust also the draught excluder (point 5.2).

10.6 When the door closes, it “strikes” against the frame

- Try to lubricate the latch (point 6.3).
- If the problem persists there may be leaf-frame-misalignments resulting probably from door settlements. It is necessary to refer to specialized personnel to perform an adjustment.

10.7 The external panel shows whitish marks

- This is quite normal on water painted external panel in the first months of exposure and after particularly humid periods. Along the time, this phenomenon will disappear. Perform cleaning pursuant to point 8.1.

11 Key duplication

- a) BASIC cylinder keys
- b) INTERACTIVE cylinder keys

a) The duplication of BASIC keys can be performed at specialized key duplication centers or at the in-house duplication center of Oikos. The duplication is performed by showing a copy of the key owner's card to the duplication center.

b) The duplication of INTERACTIVE keys can be performed **only** by the in-house duplication center of Oikos, since the profile of the INTERACTIVE key is exclusive property of Oikos.

The duplication is performed by letting Oikos have a copy of the owner's card together with the identity card of the owner, either personally or through your dealer.

