

# Evolution instruction and maintenance manual



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# 1 Introduction

Thank you for choosing OIKOS for your home, office or shop. By choosing an OIKOS armored door from the new EVOLUTION range, you have acquired a product with the highest quality, technology and design levels that are characteristic of “Made in Italy” products, made with non-toxic, fully recyclable materials and manufactured by OIKOS in observance of its certifications in accordance with international standards ISO 9001 “Certified Quality System” and ISO 14001 “Certified Environmental Management System”.

With this manual, which is an integral part of the product, we wish to give you some useful information for using an OIKOS armored door correctly and on how to carry out routine maintenance operations. A little time spent reading this information will allow you to avoid unnecessary risks and damage. Keep this manual in a safe, easy to access place for the whole working life of the product, so that it will always be to hand when you need to refer to it.

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.*



## **WARNING!**

Indicates the operations that can be carried out only by an experienced installation technician.

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

## 1.1 Performance characteristics

Oikos EVOLUTION is a line of armored doors with high performance characteristics, with various classification levels according to the type of model chosen and the applied optional performance kits.



Break-in Resistance  
class 3 / class 4



Sound Reduction



Thermal Insulation



Air Permeability



Water Tightness



Wind Resistance



Fire Resistance

All these product performance characteristics have been determined in the laboratory under ideal installation and adjustment conditions. For some of these performance characteristics, achievement of the same results in the installed product cannot be guaranteed for reasons not connected with the product but rather with the type of installation situation, the type of construction (materials, building methods, etc.), the installation technique and adjustment variations.

## 1.2 Intended use

Burglar-proof pedestrian door for entrances to residential and commercial buildings.

Avoid improper uses or uses that are not in keeping with the product.

Do not on any account try to remove the door from the frame.

Every operation that is not described in this manual, including removal of the door or parts of it, must be carried out by skilled personnel.



### *Important*

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

## 1.3 Disposal

For disposal of the product, use the local waste collection systems and assign the parts of the product according to the instructions given and the composition of the product shown below.

### **Leaf Structure:**

sheet metal, steel profiles, metal components

### **Frame:**

steel profiles, metal components

### **Frame profiles:**

aluminium

### **Sealing strips:**

PVC

### **Facings:**

wood based panels, solid wood, possibly combined with stainless steel, glass, ceramics

## 2 Handing over the door

The door is handed over to the user, after installation is finished, according to the installation specifications defined by OIKOS, complete with all accessories and perfectly operational. Handing over consists of giving the user the sealed box containing the owner's keys.



### *Important*

*Make sure the box of owner's keys is given to you intact and correctly sealed.*

During all stages of production and testing in the factory and during installation, a work site key (normally identified with a green spot on the handle) was used on your OIKOS door. At the end of the installation, **the work site key must be disabled** by means of a special operation described in point 3. In this way, the maximum control of the keys is guaranteed on starting to use the owner's keys contained in the sealed box.

## 2.1 Box of owner's keys supplied

The box of owner's keys contains the complete supply of owner's keys, as described below, and a copy of this User and Maintenance manual.



### *Important*

*Before using the owner's keys, carefully read the instructions contained in this manual.*

## 2.1.1 Double-bitted lock

The standard equipment consists of:

**3 owner's utilization keys** complete with SIM coding Card, extractor and instructions for changing the combination. These are the keys to be used during the operating life of the door after cancelling the work site key.



## 2.1.2 Basic and Cardinal cylinder

The standard equipment consists of:

**3 owner's utilization keys** with yellow spot. These are the keys to be used during the operating life of the door after cancelling the work site key.



**1 owner's card** for the owner's utilization keys. It is important to keep the "owner's card" carefully in a safe place because this

is the only document that proves the legitimate ownership of the keys and is indispensable for being able to ask for duplicates of the owner's utilization keys (see point 13 for how to request key duplicates).

## 2.1.3 Oikos Interactive cylinder

The standard equipment consists of:

### 4 owner's utilization

**keys** with yellow spot. These are the keys to be used during the operating life of the door after having cancelled the work site key. Activation of the yellow keys cancels the functionality of the work site key (see point 3 for key changing instructions)



**1 owner's card** for the owner's utilization keys. It is important to keep the Owner's Card carefully in a safe place because this

is the only document that proves the legitimate ownership of the keys and is indispensable for

being able to ask for duplicates of the owner's utilization keys (see point 13 for how to request key duplicates).

**1 owner's emergency key** with red spot. This is the key to be used in situations of danger due to theft or loss of one or more owner's utilization keys. Activation of the red key cancels the functionality of the owner's utilization keys (see point 3 for key changing instructions).



**1 owner's card** for the owner's emergency keys. It is important to keep the "owner's card" carefully in a safe

place because this is the only document that proves the legitimate ownership of the keys and is indispensable for being able to ask for duplicates of the owner's emergency keys (see point 13 for how to request key duplicates).

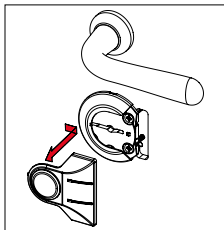


## 3 Changing combinations

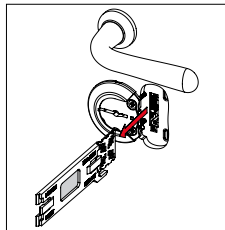
### 3.1 Disabling the work site key for double-bitted lock

At the end of the installation operations, the work site key must be disabled (see also instructions attached to the owner's keys).

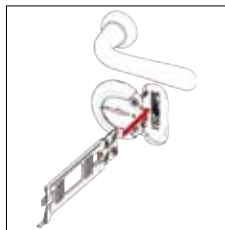
Remove the escutcheon by releasing it sideways.



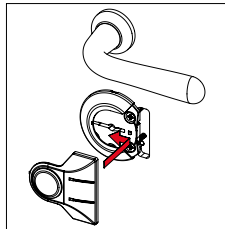
Using the extractor contained in the owner's keys pack, remove the work site SIM Card with the "EXTRACT" end.



Fit the new SIM Card on the "insert" end of the extractor and insert it in the slot.



Fit the internal escutcheon back in place.



## 3.2 Disabling the green work site key for Oikos Basic, Cardinal and Interactive cylinder

At the end of the installation operations, the green work site key must be disabled. Insert one of the yellow owner's utilization keys in the cylinder and turn it through at least 360°. Now the green work site key can no longer be used. From now on, the door can be used only with the yellow owner's utilization keys.

### 3.2.1 Disabling the yellow owner's utilization keys for Oikos Interactive cylinder

If control of the yellow owner's utilization keys is lost because of theft or loss, their operation can be cancelled by means of the disabling procedure. Insert the red owner's emergency key in the cylinder and turn it through at least 360°. Now the yellow owner's utilization keys can no longer be used. From now on, the door can be used only with the red owner's emergency key.



#### *Important*

*If you insert and turn the red key before the yellow key, all the yellow keys are automatically excluded so making them unusable.*



#### **WARNING!**

If necessary, the cylinder must be replaced with an original spare part by an experienced technician. Call your area dealer.

## 4 Opening and locking the door

By “**locked door**” we mean a door butted up against the frame that has been given all the turns of the lock (bolts fully inserted in the frame). If the door is butted up against the frame and is held only by the latch, the door is said to be “**pulled to**” (not in secure condition).



### *Important*

*The maximum and only condition of security is obtained only when the door is in the “locked door” condition.*

- Avoid slamming the door.
- Pay attention to the presence of children when opening and closing the door.
- Do not use the lock and the handle roughly.
- Do not leave the door wide open with the bolts out.
- Do not rest your hands on the frame when you are going to close the door.

## 4.1 Opening and locking from the outside

To open the door, insert the key in the lock and turn it until the bolts have been fully retracted and the latch has been released from the frame. The last half turn, during which the latch is released, may be a little “stiff”, and so to ease this just lightly pull the door towards you while simultaneously using the knob/handle and the key.

For doors with external handle, after retracting the bolts with the key, to release the latch, all you need to do is operate the handle.

To lock the door, pull the leaf to the frame until the latch is engaged. Then insert the key in the lock and turn it until all the bolts have been fully inserted in the frame.

## 4.2 Opening and locking from the inside

To open the door, turn the internal opening-locking knob (or the key if the door has a cylinder with key also on the inside or a double-bitted lock) and turn it until the bolts have been fully retracted and the latch has been released from the frame. The last half turn, during which the latch is released, may be a little “stiff”, and so to ease this just lightly push the door towards the outside while simultaneously using the opening-locking knob (or the key if the door has a cylinder with key also on the inside or a double-bitted lock). From the inside, the latch can also be released by operating the handle (only with the bolts fully retracted). Just lower the handle to retract the latch. To lock the door, push the leaf to the frame until the latch is engaged. Then turn the opening-locking knob (or the key if the door has a cylinder with key also on the inside or a double-bitted lock) until the bolts have been fully inserted in the frame.



### Important

*Never leave the key in the lock on the outside*

## 4.3 Locking and releasing the semi-fixed leaf

To move the floor and ceiling locking bolts, proceed as follows:

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



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.



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



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



## 5 Adjustments

Over time and with use, the door may need to have new adjustments, some of which can easily be carried out with a few tools following the instructions given below, whereas the other adjustments must be carried out by skilled personnel.



### WARNING!

All adjustment operations that are not specifically described must be carried out by skilled personnel. Call your area dealer.

## 5.1 Height adjustment

If the height of the door from the floor is not correct (it is normally 5-6 mm), adjust the hinges as follows:

Remove the lower hinge cap of the hinges.



Using a 6 mm hex key, adjust the hanging height of the door by turning the grub screw of the frame hinges.



At the end of the adjustment, re-fit the hinge caps.

### Important

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

*Note: after the hinges have been adjusted, it may be necessary to adjust the draught excluder.*

## 5.2 Adjusting the draught excluder

If necessary, adjust the draught excluder. Using a 3 mm hex key, turn the piston that is accessible, with the door open, from the doorstop on the hinge side. Screwing in or screwing 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 draught excluder achieves its maximum efficiency on perfectly smooth and level thresholds (e.g.: marble). This is not achieved if the threshold is made of stone or terracotta or if there are excessive deformations, in which case the sealing strip of the draught excluder will not be able to close correctly and will tend to wear out quickly.*

## 5.3 Adjusting the latch strike plate

To adjust the latch strike plate, slacken the central screw with a cross-tip screwdriver. Move the plate to the required position by turning the side adjustment screw with a 2.5mm 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.*

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



## 5.4 Sealing strip adjustments on MOSE threshold

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. If necessary, make adjustments to improve the compression of the sealing strip on the threshold. As you adjust the height of the leaf (see point 5.1), 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.



## 6 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.

### 6.1 Lubricating the hinges

Remove the upper hinge cap of the hinges and put in a small amount of spray oil (such as WD40 or similar). Lubricate the hinges at least once a year.



### 6.2 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 doorstep.

Lubricate the bolts at least once a year.

## 6.3 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 doorstep.

Lubricate the latch at least once a year.



## 6.4 Lubricating the rotating disc of the defender

Spray a small amount of spray oil (such as WD40 or similar) making it penetrate into the plate rotation seat and carry out a few rotation cycles.

Clean off excess lubricant.



### Important

*Except for as described above, locks and cylinders must never on any account be lubricated.*

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

## 7 General cleaning

Always keep the frame, seal-bearing doorstop, hinges, bolts and panels clean and dusted, paying special attention to the more hidden areas. Always keep the door dry.

## 8 Maintenance of the panels

### 8.1 Important information on the panels

Your Oikos EVOLUTION armored door is faced with two panels, one internal and the other external, which are subjected to two different types of stress, mainly due to atmospheric agents, that could cause them to deteriorate. In particular, the external facings, especially if directly exposed (e.g. facades), are continually stressed by the sun's rays (UV) and humidity that are the two main factors for the deterioration

of the panels. In particular, high exposure to the sun's rays (UV) and therefore to high temperatures, causes deterioration of the panel surface that, as time goes by, will lead to detachment of the paint film. At this stage, humidity and rain can more easily be absorbed by the panel and so cause the wood to swell and to blacken at the site of the splits or cracks that are created. Normally, the part of your door that is most at risk is the lower part because it can be reached more easily by humidity (rain) and by the sun's rays. This area must therefore be checked whenever the external panel is cleaned.

Maintenance over time is linked to a simple but thorough periodic maintenance that will brighten up and regenerate the protective paint film. If carried out correctly at the indicated frequency, the operations described below will allow you to keep your Oikos door always in excellent condition. "Aging" of the materials is however inevitable and therefore, according to the type, a slight loss of lustre and a slight change in colour over time are to be considered normal. Wood is the base material with which we make our facings and it is a living material that

changes with changing conditions, and each type changes according to its characteristics. The variation in lustre and colour is natural and does not compromise the characteristics of the wood or the protective action of the paint or the life of the materials: rather, this is the excellence of wood that reacts naturally to natural agents.

### Important

*The more your Oikos door is sheltered from direct exposure to UV rays and rain, the better the preservation of the original aesthetic characteristics will be and the longer it will last with less need for maintenance work.*

## 8.2 Routine cleaning

At least once every six months, clean the whole surface of the panel as indicated.

- a) Dust the surface of the panel with a soft cloth.
- b) Wipe over the whole panel evenly with a soft cloth dipped in a solution of water and neutral detergent (e.g. washing up liquid) and rung out well.

### Important

*Avoid cleaning with alcohol or with aggressive or abrasive detergents.*

- c) Wipe over the panel again with a soft cloth dampened with water to remove all residues of detergent and dirt. Rinse the cloth often as you carry out this last step.

### Important

*During cleaning, particularly during the first 2 or 3 times the panel is cleaned, it is normal (especially in the lacquered panels) for the paint film to leave pigmentation on the cloth it is being cleaned with.*

## 8.3 Freshening up the panel

The freshen up, to be carried out at least once a year, is a very important operation because it is used to brighten up the panel and regenerate the paint film, by closing microfractures or porosity of the film that may have formed. In particular, on the wood panels, when the paint film has become thinner and rougher to the touch and at the same time has lost its original lustre, it is advisable to freshen up the panel as described below.

- Clean the surface (point 8.2).
- With a soft cloth, apply a specific product such as ADLER TOPFINISH (or another freshening up product for water-based paints) over the whole panel.  
As regards lacquered panels, they will not need freshening up operations provided that they are cleaned regularly as described.

## 9 Cleaning the accessories

The accessories, and the knobs and handles, should be cleaned periodically with a soft damp cloth or, if necessary, with neutral detergent (e.g. glass cleaning products) that should be sprayed on the cloth and not directly on the accessory.

### Important

*Avoid cleaning with products containing alcohol, aggressive or abrasive detergents (such as Polish or similar) or metal polishing wadding.*

## 10 Troubleshooting

This paragraph describes the main problems that may arise during the use of an armored door and how to solve them.

## 10.1 The key will not enter the cylinder

- Check that the key is the right one.
- Check that the key is the horizontal position.
- Check that the keyhole disc on the defender is in the correct position.
- Check that the key is not deformed as a result of being dropped or because of wear, in which case the key is no longer usable.
- Check, through the keyhole, for external elements on the cylinder (glue, dirt, wax, etc.), in which case the cylinder must be replaced.
- Check whether there has been an attempted break-in, in which case it will be necessary to replace the cylinder.

### Important

*The key must always be kept clean and in good condition.*

## 10.2 The double-bitted lock does not work but it is the right key

- If you have dropped the key on the floor/ground, it could have one or more bent teeth; try to straighten the tooth or throw away the key because it is no longer usable.



- The key could have worn teeth and therefore may have lost its coding; throw away the key because it is no longer usable.

### Important

*It is a good idea to keep an unused owner's key in a safe place, as it will be necessary when you have to have copies made.*

## 10.3 The key enters the cylinder but turns without engaging

- It is normal for the key to turn through a maximum of 360° without engaging.
- If the key has a very worn tip, this is the cause of the problem, and you should therefore proceed as follows.
- Use another key and throw away the worn out key.
- If you do not have another key, try inserting the worn key and pushing it inwards forcefully to open the door; if the door opens, throw away the key, otherwise call the technical support service.

- If the key is undamaged, it means some components inside the cylinder are worn, and the cylinder must therefore be replaced. To open the door, try inserting the key and turning it and pushing it inwards forcefully; if the door opens, replace the cylinder, otherwise call the technical support service.



### *Important*

*From the inside, the door works in any case with the knob.*

**Note:** it is normal for the internal knob of the cylinder to have a little play.

## 10.4 Key hard to turn, difficulty in opening the door

Try to make all the turns of the bolts with the door open.

If the door works well, the problem can be attributed to incorrect leaf-frame alignment probably due to settling of the door. It is necessary to call skilled personnel to carry out an adjustment.

If the lock is “hard” to operate even with the door open, proceed as follows.

- Check that the internal cylinder knob (the key, in doors with double-bitted lock, from both the inside and the outside) has a little play.
- Lubricate the bolts (upper and lower) as described in point 6.2.

- Lubricate the anti-drill disc on the keyhole of the defender as indicated in point 6.4. If the problem still persists, contact skilled personnel to check the lock.

## 10.5 When the door is opened and closed it is stiff or creaks

- Lubricate the hinges (see point 6.1).
- Check that the panel-fixing angle piece does not interfere with the hinges during the opening-closing rotation. If necessary, contact skilled personnel.



## 10.6 The door touches the floor

- Adjust the hinges as indicated in point 5.1. After the hinges have been adjusted, it may also be necessary to adjust the draught excluder (point 5.2).

## 10.7 When the door closes it “knocks” the frame

- Try lubricating the latch (point 6.3).
- If the problem persists, there may be leaf-frame alignment problems probably due to settling of the door. It is necessary to call skilled personnel to carry out an adjustment.

## 10.8 The external panel has whitish marks

- This is a normal phenomenon on external panels painted with water-based paint during the first months of exposure and after particularly damp periods. The phenomenon will disappear over time. Clean as described in point 8.2.

## 11 Duplication of keys

### a) **DOUBLE-BITTED** keys

### b) **BASIC** and **CARDINAL** cylinder keys

### c) **INTERACTIVE** cylinder keys

a) Duplication of **DOUBLE-BITTED** keys can be carried out in any suitably equipped ironmongers without the need for cards or other documents.

b) Duplication of **BASIC** and **CARDINAL** keys can be carried out at specialized key duplication centres or in the internal Oikos duplication centre. Duplication is carried out on showing the duplication centre a copy of the key owner's card.

c) Duplication of the **INTERACTIVE** key can only be carried out with the owner's card at the internal Oikos duplication centre, since the profile of the **INTERACTIVE** key is the exclusive property of Oikos.

Duplication is carried out by sending a copy of the owner's card and the door owner's identity card to Oikos, personally or through your dealer.





