

 **coverseal** *protect  
your pool  
environment*

*User's manual*  
**COVERSEAL**  
*Cover 102*  
*Alu Rails*

(V7)

2024

This manual contains detailed instructions and notes on the operation and use of the COVERSEAL 102 Aluminium Track Pool Safety Cover. For your safety and convenience, please read this manual carefully before using the cover.

This cover complies with the French safety standard AFNOR NF P90-308 December 2013.

The certificate of conformity has been granted and delivered by the LNE (Laboratoire National d'Essais in France).

**Failure to comply with the instructions (Safety, Operating, Wintering and Cleaning Instructions) may result in the malfunction of the cover, or even serious personal injury, for which the manufacturer and your installer cannot be held responsible and will be obliged, if necessary, to cancel all contractual guarantees.**

**The contents of this manual are subject to change without notice.**



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## 1. SAFETY NOTICE

### 1.1 GENERAL SAFETY ADVICE

**Please note that safety is only guaranteed if the cover is properly closed, locked and installed according to the manufacturer's instructions.**

The pool can be a serious hazard for your children, drowning can happen very quickly. Children in the vicinity of a swimming pool require your constant vigilance and active supervision, even if they can swim. The physical presence of a responsible adult is essential when the pool is open.



## Learn life-saving techniques









**Memorise and display the first aid numbers near the pool:**

 Fire brigade (18 for France or 112 from a mobile phone anywhere in Europe).















 SAMU (emergency medical services, 15 for France or 112 from a mobile phone anywhere in Europe).








## 1.2 SAFETY TIPS SPECIFIC TO THE COVER

-  The cover is not a substitute for common sense or individual responsibility. Nor is it intended to replace the vigilance of parents and/or responsible adults, which remains the essential factor for the protection of young children.
-  The cover should only be used by a responsible adult.
-  The cover must be systematically closed and locked in case of absence, even temporary, from the home.
-  Check that there are no bathers or foreign bodies in the pool before and during the operation of the cover.
-  The tools (key, remote control, or manual operation) necessary to operate the cover must be kept out of reach of children.
-  **If a malfunction occurs that prevents the pool from being closed and secured, take all necessary measures to prevent access to the pool by small children until the cover is repaired.**
-  Observe the water heights specified by the manufacturer (see point 2.4).
-  We recommend that you check the entire membrane for visible damage each time it is closed. In case of damage, contact your local service centre to arrange for repair.

### THE POOL IS NO LONGER SAFE WHEN:

-  The drainage holes on the cover are blocked.
-  Rainwater does not drain naturally, and puddles are present on the cover.
-  The water level is not respected.
-  The cover is not correctly and fully engaged and locked in the rail.
-  The cover is damaged (tear, damage, etc.).
-  The mechanism has not reached the end of its travel.
-  A rail has dents and/or scratches.
-  A rail has moved.
-  The junction between two rails is not properly secured.
-  The side door of the casing preventing access to the wired remote control is not locked (Automatic model).
-  The casing is not present on the mechanism.
-  The casing is not placed on the floor in the closed or open position if the cover is equipped with cylinders (Only on the Automatic model).
-  The control box is not disconnected from the mechanism (Semi-Automatic model).
-  The manual operator is not removed from the system after use.

### 1.3 INSPECTION OF SAFETY ELEMENTS (TO BE DONE REGULARLY)

-  Check that the cover fits perfectly into the rails and clean them of any dirt (sand, ant nests, leaves, branches, soil, etc.) before handling the cover.
-  Check the condition of the membrane, snap rings, and seams (no damage, no tears, etc.).
-  Check the condition of the belts.
-  Check the flatness, stability, and resistance of the anchoring surfaces (coping, decking or terraces).
-  Check the water level of the pool and, if necessary, the efficiency of the automatic water levelling system («overflow»).

### 1.4 ELECTRICAL POTENTIAL OF THE POOL/HOME ENVIRONMENT

It is compulsory that the entire pool environment is electrically earthed and therefore to ask your installer to install a «earthing» (in accordance with current standards). If this is not the case, the residual currents may cause uncontrolled oxidation of the metal parts around and in the pool (screws, ladder, rails, and other metal parts of the cover, etc.).




**The manufacturer cannot be held liable for any lack of conformity resulting from a non-conforming installation.**

### 1.5 ANCHORING SURFACES



The cover exerts a significant lateral traction (up to 100 kg per linear metre). It is therefore essential that these anchoring surfaces are flat, stable and solid and that they can withstand this type of traction over time.

## 2. OPERATING INSTRUCTIONS













### 2.1 GENERAL RULES

-  The cover (except for the Manual model) is equipped with two 12-volt batteries which, depending on the model, are either placed in the control box and recharged from the mains via the charger supplied by the manufacturer (Semi-Automatic model) or continuously recharged by two photovoltaic panels (Automatic model). The fully charged batteries allow approximately 10 openings/closures for a cover of approximately 13m in length.
-  For covers equipped with a mains charging terminal, it is essential to leave the power supply connected at all times and to keep the cover closed and charged as soon as the pool is no longer in use.
-  If there is water, an obstacle, or a weight on the cover when it is opened, the mechanism will stop automatically because a blockage (see point 2.3) in the membrane will cause the electronic card to go into safety mode (except for the Manual model). It is then necessary to close the cover and remove the obstacle before any further handling

The Automatic model, is equipped with a remote control, powered by a battery, and operated by a magnetic key depending on the configuration of the pool and its environment. It is mandatory that the remote-control box is permanently fixed on an immovable support allowing a direct view of the pool. The key used to operate the box must be kept out of the reach of children and works like a «dead man's switch» (the cover stops immediately when you release the key during opening/closing).

-  If the range of the remote-control decreases, you should change the battery. In some environments where electromagnetic interference is present, the correct operation of the remote control cannot be guaranteed, and the use of the wired control is recommended.
-  For covers fitted to an overflow pool or mirror pool, it is essential to keep the filtration system continuously active so that the water on the cover is drained and the cover complies with AFNOR standards. However, if the filtration is stopped, the water on the membrane must be drained using a water pump.

#### **YOU MUST NOT:**

-  Climb, walk or jump on the cover and its casing.
-  Swim under the cover and/or its casing.
-  Sit on the roll-up shaft/mechanism, the casing, or the photovoltaic panels.
-  Use the cover shaft or enclosure as a diving board or springboard.
-  Be in the way of the mechanism when opening/closing the cover. Stop the cover in the intermediate position.
-  Use sharp objects near the cover (lawnmower, bush cutter, etc.).
-  Operate the cover when the temperature is below 5°C.
-  Operate the cover when there is frost or ice on the rails.
-  Operate the cover when it appears to be damaged or no longer correctly locked in the rail.
-  Operate the cover when the system no longer moves perpendicular to the rails.
-  Operate the cover when there is an obstacle or weight on the cover (puddles, snow, ice, people, animals, various objects, etc.).
-  Operate the cover when the correct fixing of the rails is no longer ensured (unscrewed rail, removed fixing, damage to the anchoring surfaces, etc.).

**Contact your installer as soon as possible for any anomaly or malfunction.**

## **2.2 COVERSEAL COVER OPENING AND CLOSING STEPS**

The person performing the operation must ensure that there are no bathers present and always have a view of the pool during the opening and closing operations. It is important to open or close the cover completely and never leave it in an intermediate position.

## 2.2.1 AUTOMATIC MODEL

### a. With the remote control:

1. Insert the magnetic key into the remote control fixed to the wall.
2. Hold the key in the open or close position.
3. The cover will automatically slowdown at the end of its travel. Once stopped, remove the key from the remote control.
4. For covers with cylinders : keep the key in its position until the cover is completely on the ground.

### b. With the wired control:

1. Unlock the cover's side flap with the key and open it.
2. Take hold of the control and press 2 buttons simultaneously: central button + open/close button. It is important to keep these two buttons pressed down to open or close the cover.
3. Follow the mechanism during its opening or closing.
4. The cover will stop automatically at the end of its travel. Once stopped, replace the control unit on the base provided for this purpose.
5. Close the cover with the key and remove the key.
6. For covers with cylinders : keep the buttons pressed down until the cover is completely on the ground.

### c. With manual operation:

The manual override should only be used in the event of an electrical failure and should not be used to release your cover. Incorrect use of the manual override may result in damage that will not be covered by the manufacturer's warranty.

### **Under no circumstances should it be used to remove your cover!**

1. Remove the 2 hatches (one on each side of the cover).  
**For modules without cylinders, go directly to point 3.**
2. Raise the cover (be careful of the weight) on each side until you hear the click.
3. Identify the red motor cable and disconnect it.
4. Identify the manual operation flange and insert the extension cable supplied during installation.
5. Place the ratchet at the end of the extension and adjust the knob to the desired position.



**You can now operate the system to open or close the cover. To reinstall your cover, reverse steps 5 to 1. To lower down the casing (only covers with lift)**

### d. Battery Management

The Automatic model is equipped with a system protecting the batteries overcharge and limiting the risk of batteries deep discharge (BMS/ Battery Management System). This system will prevent the cover from moving in case of low battery. The BMS being equipped with a controller, the cover will need a few seconds after being connected to start working.

### e. Height of the casing

For covers equipped with lifts, it is possible to choose the height of the casing by changing the position of the magnet on the reinforcement of the casing. This reinforcement includes 10 attachment points to allow this setting. The factory setting is at the highest position.

## 2.2.2 SEMI-AUTOMATIC MODEL

### a. With the control box :

1. Disconnect the control box from its charger.
2. Insert the plug of the control box into the connector on the cover.
3. Press 2 buttons simultaneously: yellow «start» button + open/close button.
4. Follow the mechanism during its opening or closing.
5. Stop the movement by releasing the buttons before the end of the rail (+/- 5 cm).
6. Once the cover has finished opening or closing, replace the control box on the charger provided for this purpose.



### b. With manual operation :

See point 2.2.3 (also valid for optional full casing).

## CHARGING THE CONTROL BOX

First, you have to identify the charging terminal of your control box and then connect your charger. The Power, Slow (or normal) and 24V LEDs will all be lit. Once the battery is fully charged, the 100% LED will also light up. **Your control box should remain connected to the charger when not in use.**

## 2.2.3 MANUAL MODEL





1. Insert the extension cord supplied at the time of installation into the hole provided.
2. Place the ratchet on the end of the extension and adjust the knob to the desired position (open/close).
3. Follow the cover when moving it, using sideways movements.



### 2.3 PROCEDURE IN CASE OF MEMBRANE BLOCKAGE

In case of external elements on the cover, the mechanism will stop automatically because a blockage in the membrane will cause the electronic board to trip.

#### It is then important that you:

-  Do not force the system, electrically or manually.
-  Remove the obstacle before any further manipulation.
-  Check that nothing remains blocked in the rails or in the system.
-  Close the cover completely using the ratchet, respecting the instructions for the cover itself (Automatic/Semi-Automatic/Manual).



**In the event of recurring problems, please contact your installer.**

**Failure to follow the instructions may result in damage to the cover and make it unusable, thus rendering the pool unsafe!**

**Any damage caused by not following the procedure in case of blockage will not be covered by the manufacturer's warranty.**

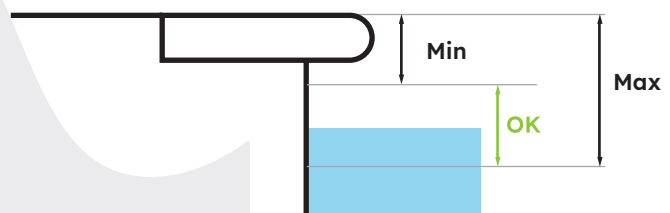
### 2.4 WATER LEVEL TO BE RESPECTED

It is essential to maintain a certain water level to ensure the proper functioning of the mechanism and the safety of the pool. Never use the cover if the water level is not respected:

-  If the water level is too low (above the Max), the cover, the coping stones or the anchoring surfaces may be damaged under heavy loads and the safety of the pool may no longer be guaranteed. In the event of snowfall, for example, the cover must be able to rest on the pool water to prevent damage.
-  If the water level is too high, the cover will be blocked, and the safety of the pool will no longer be guaranteed. Before opening the cover, it will be necessary to lower the water level and/or drain the water from the cover using your filtration pump or, for example, a vacuum pump.

**It is strongly recommended to provide an automatic water levelling system («overflow»).**

The distance between the top of the coping and the water level of the pool should always be within the following ranges (depending on the width of your pool):






Width Pool	< 4m	4 to 5m	5 to 6m	6 to 7m	7 to 8m	8 to 9m	9 to 10m	10 to 11m	11 to 12m
<b>Minimum Distance (Min)</b>									
Flat copings (up to 20 mm of obstacles) <b>and</b> dense surfaces	4cm	5cm	6cm	7cm	8cm	10cm	12cm	14cm	16cm
Other cases	8cm	10cm	12cm	14cm	16cm	18cm	20cm	22cm	24cm
<b>Maximum Distance (Max)</b>									
All cases	15cm	17cm	19cm	21cm	23cm	25cm	27cm	29cm	31cm



## 2.5 CHECK FOR PROPER OPERATION

After a long period of non-use, it is advisable to check that the mechanism is working properly and that it has been thoroughly cleaned of leaves, branches, earth, sand and other debris.

### Before any handling :

-  Check that the cover is properly engaged and locked in the rails.
-  Check that the cover is not damaged (tear, damage, etc.).
-  Check that the guide rails are not obstructed by any object and/or are still aligned correctly.

### Before any handling :

-  Make sure that the cover reaches the end of its travel.
-  Make sure that the opening and closing manoeuvre is smooth and continuous.



## 2.6 WATER TREATMENT WITH A COVERSEAL COVER


### A COVERSEAL pool cover = Fewer pool maintenance products.


The cover helps to protect your pool and reduce maintenance. However, this does not mean that you do not need to treat your water properly! It is therefore important to regularly check the main parameters, including the pH and disinfectant levels, and to adjust the dosage of products accordingly.

Poor indicators (pH, disinfectant, etc.) can cause oxidation of the metal parts of the cover and lead to deterioration of the membrane (snap rings, seams, etc.).


Your pool installer is your best advisor regarding the treatment of the water in your pool.

As the cover is almost watertight and allows very little UV radiation to penetrate, it is important to reduce the quantity of certain water treatment products. It is therefore advisable to change your habits in this respect and/or to adapt your existing equipment:

 In the case of **manual water treatment**, you should carry out frequent analyses of the main parameters (pH, disinfectant level, etc.) to avoid over/under dosing **(1)**. We strongly advise against adding a massive amount of product to your pool (shock chlorine, etc.).

 **In the case of an automatic water treatment system that is not self-regulating (2)»,** it is necessary to adapt the setting of your dosing pump and to regularly check the parameter indices (pH, disinfectant rate, etc.) to avoid any over/under-dosing. It is also possible to equip your cover with a closing detector (option available from COVERSEAL) which, coupled with your dosing pump, will allow the water treatment to be stopped or reduced. In the case of a water treatment system by electrolysis (salt treatment) which is not self-regulating, the addition of this option is highly recommended! \* It is important to know that salt has a strong influence on the pH level, which can be harmful to your pool and its equipment.

\* **It is essential to ask the installer of the water treatment system about the compatibility of your appliance with the closing detector proposed by COVERSEAL.**

 **In the case of an automatic water treatment system that is self-regulating (2)»,** it is essential to remain vigilant about the condition of your dosing pump's sensors, which require regular maintenance in order to avoid malfunctioning and any over/under-dosing **(1)**. We strongly encouraged you to manually monitor the indices of the various parameters and the consumption of the products (at least once a week).



**Failure to follow these guidelines may result in damage that will not be covered by the manufacturer's warranty.**

**(1) Any over or under dosage can cause irreversible damage to your equipment (ladder, membrane, cover, etc.).**

**(2) By a self-regulating system, we mean any device that calculates in real time the indices of the parameters of your water and adapts/stops the production of products accordingly.**

### 3. WINTERING INSTRUCTIONS

#### 3.1 ACTIVE WINTERING

-  When the weather is frosty, we advise you to leave the filter running continuously (24 hours a day).
-  Respect the range mentioned in point 2.4 «Water level to be respected».

#### 3.2 PASSIVE WINTERING (total stop of the filtration)

Once your water level has been lowered and your hydraulic circuit drained, install the wintering plugs to raise the water level respecting the range mentioned in point 2.4 «Water level to respect».

#### 3.3 BATTERIES AND WINTERING SWITCH

For Automatic models, the batteries can be left on the cover mechanism. They will recharge via the photovoltaic panels as long as the temperature is above  $-15^{\circ}\text{C}$ . If the temperature is below  $-15^{\circ}\text{C}$ , please remove them and connect them to the charger, in a dry place and at an ambient temperature between  $5^{\circ}\text{C}$  and  $35^{\circ}\text{C}$ .

During the wintering period (September 1st to May 1st), when you use your cover the least, the reduced light levels do not allow the solar panels to compensate for the energy consumption of the radio frequency (RF) receiver, so the batteries are completely discharged.

The wintering switch, when placed in the low position (OFF), switches off the remote control radio frequency (RF) system, reduces the power consumption and prevents the deep discharge of your batteries. You can still operate your cover using the 3-button wired control (see point 2.2). It is therefore important that you follow this instruction in order to guarantee the correct working of your cover, otherwise the replacement of the batteries may not be covered by the manufacturer's warranty.

For Semi-Automatic models, the control box must be left on the charger during the whole wintering period. The batteries will then be ready for the restart of the pool (the charger consumes very little continuous electrical current).

For Manual models, the manual drive must be protected from moisture.



## 4. CLEANING NOTICE

The longevity of your COVERSEAL cover and its good functioning depend on a rigorous and regular cleaning, and this before any handling.





This cleaning consists mainly of removing waste that may be deposited on the cover, inside the rails and the snap ring mechanism.

Also be careful not to leave the membrane rolled up with a pile of leaves or debris. These could rot and stain the PVC indelibly.



### 4.1 SAFETY CONDITIONS

We recommend that the following safety conditions be strictly observed when cleaning your cover:

-  Remove all obstacles from the cover.
-  Use protective gloves.
-  Do not leave cleaning products within the reach of children.
-  Follow the safety instructions of the cleaning products used.



### 4.2 CLEANING CONDITIONS

#### *a. Membrane :*

We recommend cleaning at least twice a year depending on the environment of the pool (presence of trees, sand, soil, etc.). In any case, a cleaning must be carried out before the first opening and restarting of the pool. The cover must be completely closed and locked to be cleaned.

Ideally, a domestic low-pressure cleaner should be used, limiting the pressure to 80 bar. You can use a product with a neutral pH.

#### **Do not use:**

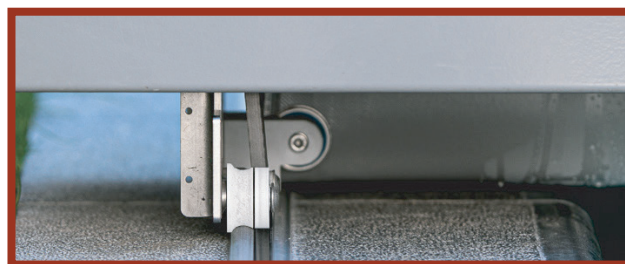
-  Alcohol, solvents, acidic or corrosive products, etc.
-  Abrasive tools, high pressure cleaners, etc.

### *b. Rails and latching parts:*

Regular and thorough cleaning of the rails and latches under the mechanics will increase the life of your cover.

In order to remove all dirt (sand, ant nests, leaves, branches, earth, etc.), first use a vacuum cleaner/blower and then a water jet to finish if necessary, taking care not to accumulate dirt in the rails at the end of the travel.

To clean the inside of the rails, gently lift the belt (black band) once the cover is rolled up (pool open). Then, replace the belt correctly in the rail.



### *c. Photovoltaic panels:*

Regular cleaning of the photovoltaic panels will increase the life of the batteries. To do this, use only a microfibre-type cloth and clean water.

### *d. Mirror-effect powder-coated aluminum casings :*

Regular cleaning helps preserve their appearance and integrity. Start by rinsing the casing with a low-pressure jet of water to remove impurities that could potentially cause scratches.

Then use a microfiber cloth to remove any accumulated dirt.

If necessary, use a pH-neutral soap to remove stubborn stains or dirt, and finish off with a soft, clean cloth.

### *e. Charging system for inside pool:*

Regular cleaning of the charging terminal block will ensure that the battery is charged correctly. Use the abrasive side of a dish-washing sponge to remove any corrosion, a degreasing spray to remove impurities, and finally a silicone spray to protect the terminal block.

### *f. Precautions against insects :*

The casing of your cover can, in certain cases, be a place of refuge for certain insects (wasps, etc.).

It is therefore advisable to check, especially during the summer period, that no nests have formed inside the cover. To do this, open the side flaps and perform a quick visual check.

If necessary, call in a professional to remove any pests.

**If you have any further questions, please do not hesitate to contact your installer.**

 **coverseal**  
by Becoflex

