

STARDECK AX-IN

Submerged Automatic cover



INSTALLATION AND MAINTENANCE INSTRUCTIONS

To be read carefully and kept for future reference

You have just acquired an automatic pool cover, thank-you for placing your trust in us. Before commencing installation and operation of the cover, please read the following document carefully, it contains important recommendations concerning the various manipulations and advice for use. Keep this manual and show it to any other users.

FOREWORD

Congratulations! You have just purchased an automatic cover made by BWT POOL PRODUCTS and we would like to thank you for placing your trust in us.

By choosing this cover, you have selected a cutting-edge product perfectly adapted to its function as a pool safety cover.

You also benefit from the competence and expertise of BWT POOL PRODUCTS, whose registered office is situated - 48 rue de Bédée, PLEUMELEUC (35137), France.

Your installation is the last link in a chain of pool professionals.

However, despite the excellent quality of every component of this cover, we cannot guarantee the user's total satisfaction unless the user scrupulously observes and applies the recommendations and instructions provided in this manual.

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INSTALLATION INSTRUCTIONS

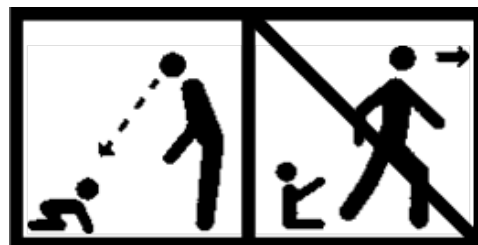
1. Important safety notice

- This cover is no substitute for common sense or individual responsibility. Nor is it intended to substitute the vigilance of parents and/or responsible adults which remains the key factor in ensuring the safety of young children;
- Caution: safety is only assured when the cover is closed, locked and correctly installed in accordance with the manufacturer's instructions;
- In the event of any absence, how-ever brief, from the home, the cover must be installed systematically;
- Check that there is no person or foreign body in the pool both prior to and during opening and closing of the cover;
- Keep the key used to activate the cover mechanism out of reach of children;
- The cover should only be opened/ closed by a responsible adult ;
- Standing, walking and jumping on the safety cover should be prohibited;
- In general, implement all steps necessary to deny young children access to the pool while the cover is pending repair or during any malfunction preventing the pool from being closed and secured or in the event that the pool or equipment is temporarily unavailable.
- A pool can represent a serious danger to your children. A person can drown very quickly. Children near a pool require your constant vigilance and active supervision, even if they know how to swim.
- The physical presence of a responsible adult is absolutely mandatory while the pool is open.

Learn first aid techniques

Memorise emergency numbers and display these close to the pool:

- Fire brigade:
- Medical emergency services:
- Poison treatment centre:



2. Installation recommendations

The Stardeck AX-IN automatic cover is designed for pool slat aprons at most 6.09 m wide.

According to the standard NF C15-100, a 30 mA RCD must be installed at the head of the electrical line powering the Stardeck AX-IN automatic cover.

The motorisation system is delivered with an electrical panel, it may only be operated with this electrical panel. Any other use of the motor without the electrical panel, or vice versa, is dangerous and not advised.

The Stardeck AX-IN cover may only be operated using a mechanism described in the NF P90-308, such as the key switch supplied.

The automatic nature of the Stardeck AX-IN cover in no way dispenses with the need for vigilance when the cover is in motion. On encountering the slightest issue rolling the cover up or our, stop the movement and contact a professional.

2.1. Tools required

Step	Tools required
Assembling the axle	<ul style="list-style-type: none">- Spirit level- Set of wrenches- Hex socket wrench 2.5- Mallet
Mounting the motor and the control panel	<ul style="list-style-type: none">- Small flat head screw driver- Cross-head screw driver- Stripping pliers- Cutting pliers- Stanley knife- Percussion drill and Ø 8 mm concrete drill bit
Assembling the pit wall	<ul style="list-style-type: none">- Rivet pliers- Mallet- Percussion drill- Measuring tape- Drill, 5 mm- Concrete drill bit, 13 mm- Allen key, no. 5- Cross-head screw driver, no. 2
Assembling the beam and brackets	<ul style="list-style-type: none">- Wrenches- Allen keys- Wood cutting tools (wooden duckboarding)

2.2. People required

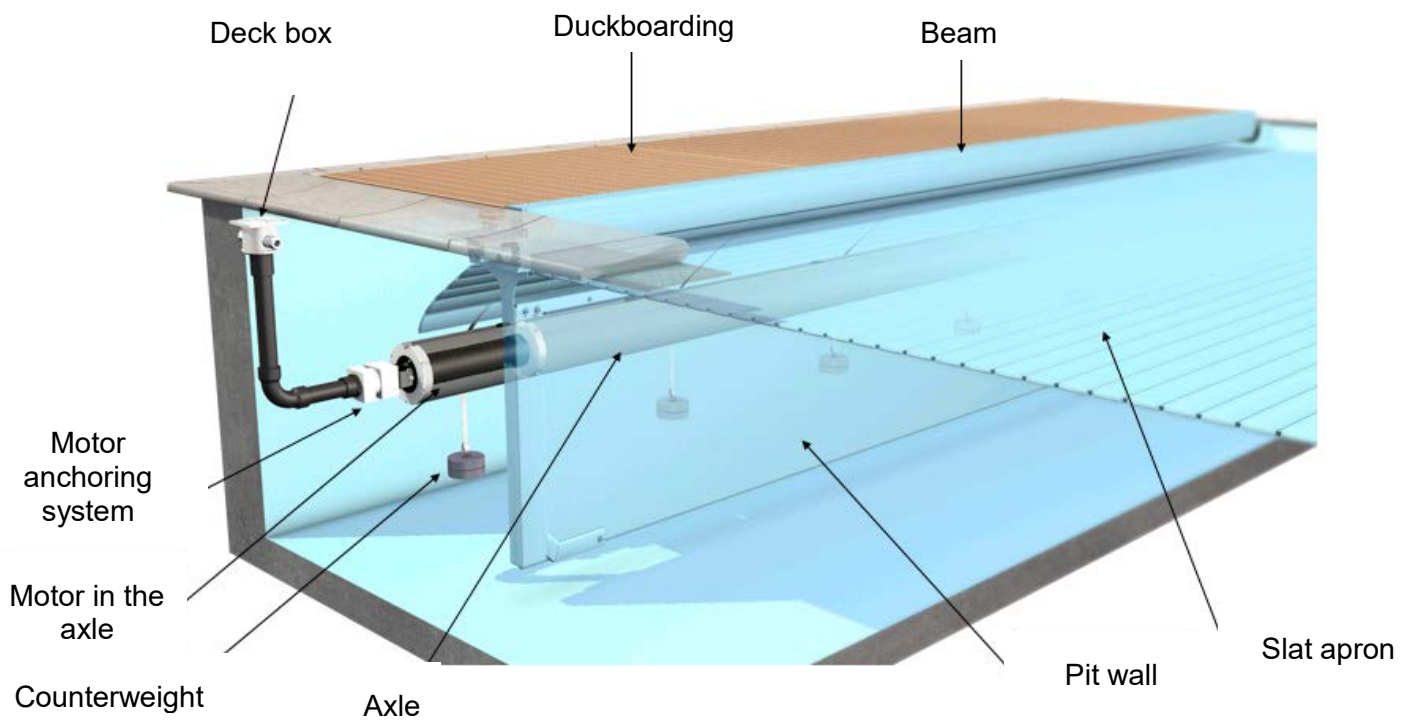
Step	Number of people	Length of time
Assembling the cover axle	2	1 hour
Installing the pit wall	2	1 hour
Assembling the slat cover apron	2	1 hour
Mounting the beam or brackets	2	1 hour

The lengths of time quoted do not take the time required to fill the pool into consideration, this will depend on the flow rate of the water supply and the volume of the pool.

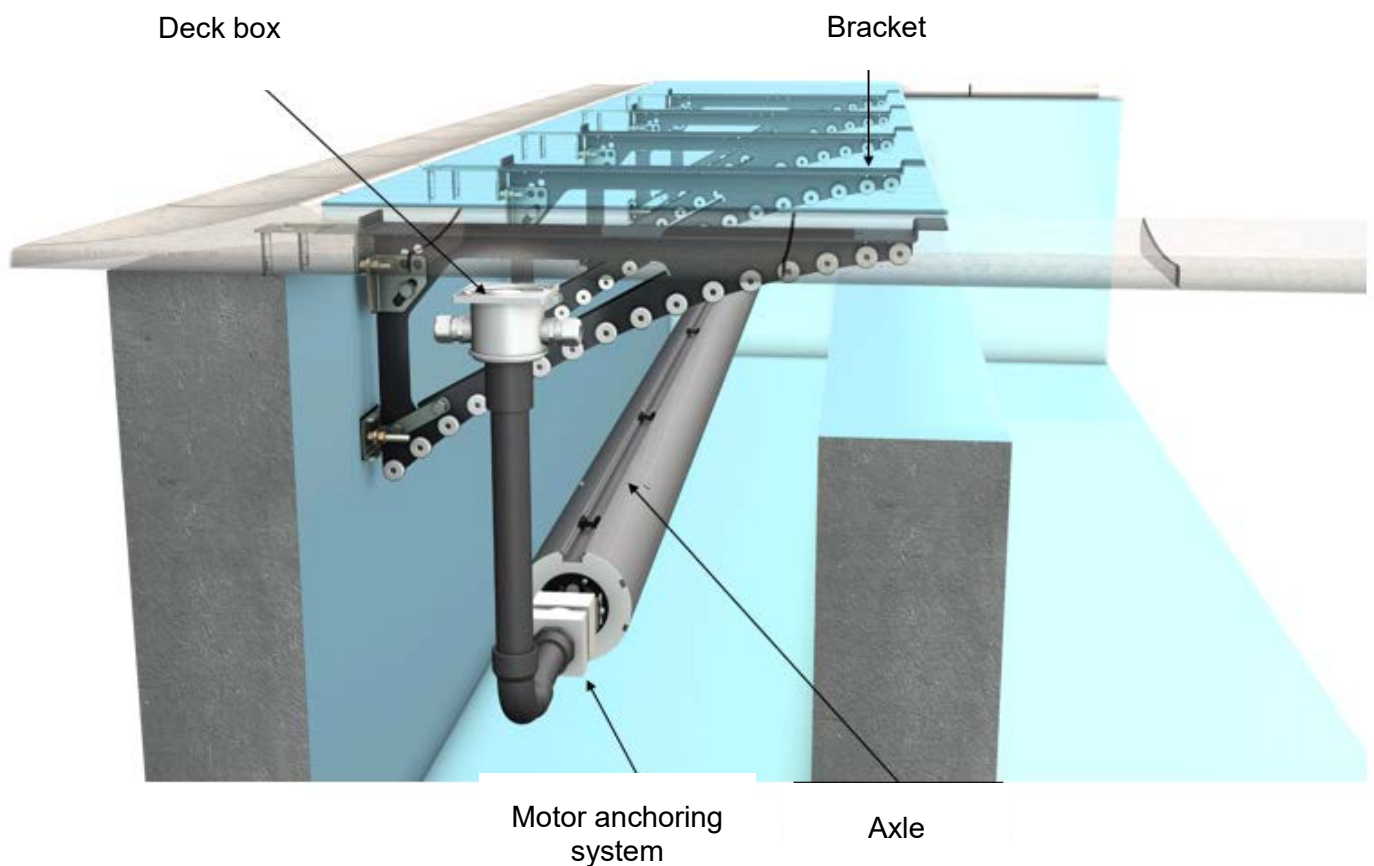
3. Preparation before installing the mechanical assembly

3.1. Using the cover

Stardeck AX-IN standard water level


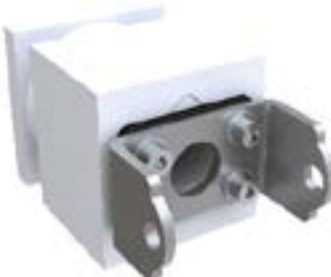








Stardeck AX-IN High Water Level



3.2. Versions

Stardeck AX-IN covers are available in 4 versions

Version	Anchoring, motor side	Anchoring, bearing side
Sealed-in fittings, with declutching		
Sealed-in fittings, without declutching		
Wall fastened without declutching		
Wall fastened with declutching		

For each of these versions, separate installation instructions will be provided. At this point, the anchoring system has been installed and the axle should be mounted between the two clevis mounting brackets.

3.3. Verify dimensions and squaring

Before beginning installation of the automatic cover's mechanical assembly, check that dimensions and squaring comply with the cover civil engineering diagrams (dimensions of the cover pit, perfect horizontal alignment of the anchoring system on the motor side and bearing side, etc.).

CAUTION:

Incorrect alignment of the anchoring system on the motor side with the anchoring system on the bearing side will lead to serious malfunctions of the automatic cover.

3.4. Check the electrical point of supply

Lay a duct to run the cable between the electrical supply and the electrical panel.

Distance motor/panel	Recommended cross section for the motor power cable		Recommended cross section for the sheathed signal cable	Recommended cross section for the key switch cable
	C120	C300		
10 m	3 x 2.5 mm ²	3 x 4 mm ²	3 x 1 mm ²	3 x 1.5 mm ²
20 m	3 x 2.5 mm ²	3 x 6 mm ²	3 x 1 mm ²	3 x 1.5 mm ²
30 m	3 x 4 mm ²	3 x 10 mm ²	3 x 1 mm ²	3 x 1.5 mm ²
40 m	3 x 6 mm ²	3 x 16 mm ²	3 x 1 mm ²	3 x 1.5 mm ²

STARDECK AX-IN AXLE

CAUTION:

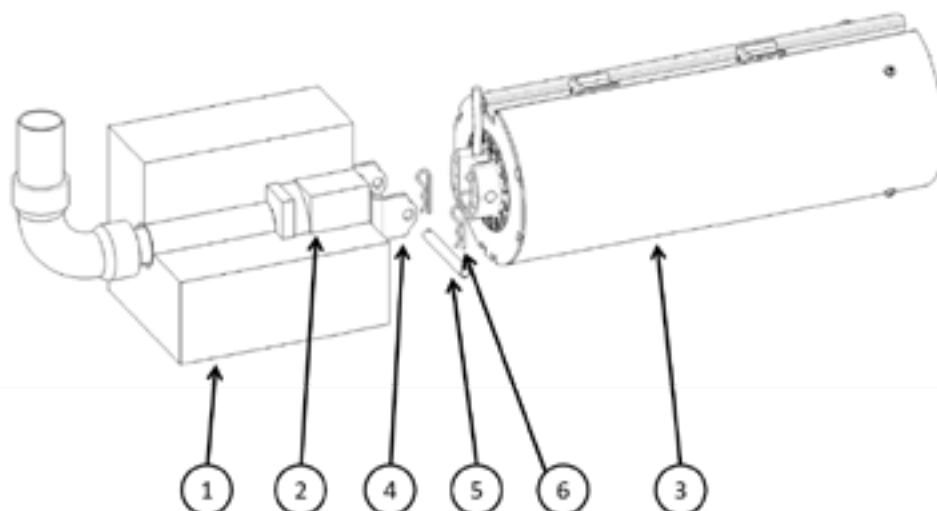
The images illustrating installation of the elements correspond to the Seal-in fitting without declutching version. However, they are valid for all versions given that the axle is fitted between two clevis mounting brackets that are present in all versions. The images may not correspond to the version being installed, however they are still valid. We shall refer to the motor anchoring system and the bearing anchoring system.

1. Axle, diameter 190 or 192 mm

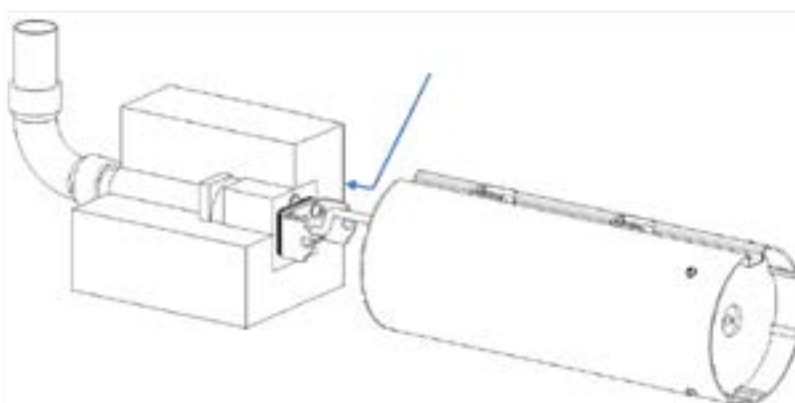
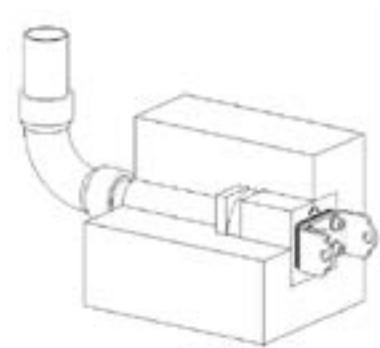
Mounting the axle on the motor side

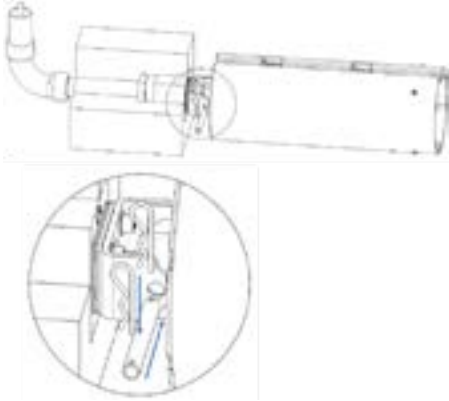
Ref	Description	Qty
1	Wall	/
2	Motor anchoring system	/
3	Axle + motor	1
4	SS clevis mounting bracket *	1
5	Clamping pin Ø12, 106 mm, SS	1
6	Bêta safety spling, Ø3, SS A2	2

*delivered with the motor anchoring system



Passing the motor cable through the throughwall flange into the motor inspection pit





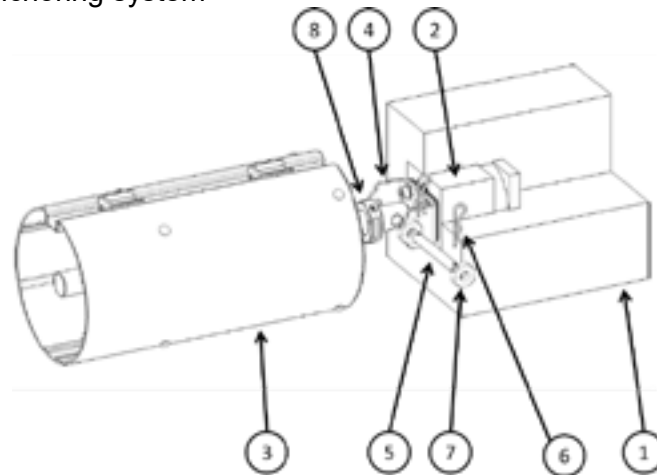
One person holds the axle (3) near the anchoring system on the motor side (2) while the second person passes the motor cable through the collar (enclosed with the motor anchoring system) and sleeve using the needle left in place during a previous installation step.

Put the the Aluminium axle (3) in position at the clevis mounting bracket (4). Insert the clamping pin (5) and the two Béta safety splints (6) to join the Aluminium axle (3) to the anchoring system on the motor side (2).

Mounting the axle in the bearing

Ref	Description	Qty
1	Wall	/
2	Anchoring system, bearing side	/
3	Axle + telescopic shaft	1
4	SS clevis mounting bracket*	1
5	Clamping pin Ø12, 106 mm, SS	1
6	Beta safety splint Ø3, SS A2	2
7	Locking ring Ø12 mm	2
8	Locking ring Ø30 mm	1

*Enclosed with the bearing anchoring system

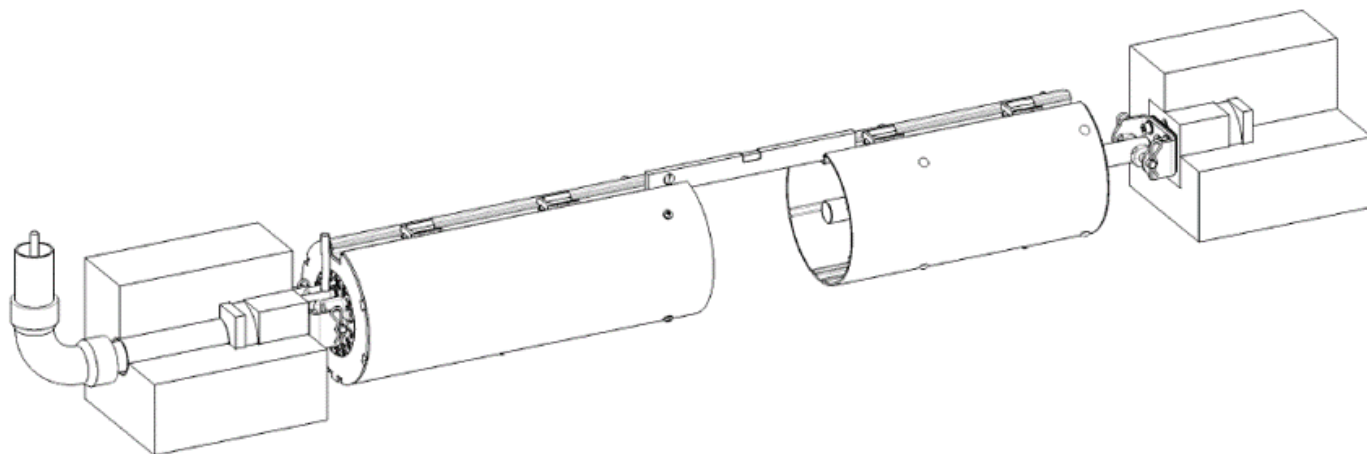


Hold the axle (3) opposite the clevis mounting bracket (4) of the bearing anchoring system (2) pulling out the telescopic shaft.

Insert the clamping pin (5) with two locking rings Ø12 mm (7) and two Beta safety splints (6) to join the Aluminium axle (3) to the bearing anchoring system (2). Play on the position of the two locking pins Ø12 mm (7) to ensure that the axle is perfectly perpendicular to the length of the pool.

In the case of a version with declutching, install the locking ring Ø30 mm (8) on the telescopic shaft against the disk. This locking ring will prevent the axle from sliding on the shaft in the event that the cover is declutched.

Check that the axle is horizontal



Using the 2.5 socket wrench, tighten two locking rings to fix the position of the stainless steel shaft on the bearing side.

MOTOR DRIVE SYSTEM

1. Wiring in the electrical panel

1.1. Installation of the electrical panel

The electrical panel should be mounted on a wall in the plant room, protected from sun and rain, and at a distance of more than 3.5 m from the pool.

The installation steps are as follows:

Unscrew the 6 plastic screws and remove the front facing of the electrical panel.

Remove the retaining screw from the mounting bracket at the bottom of the electrical panel.

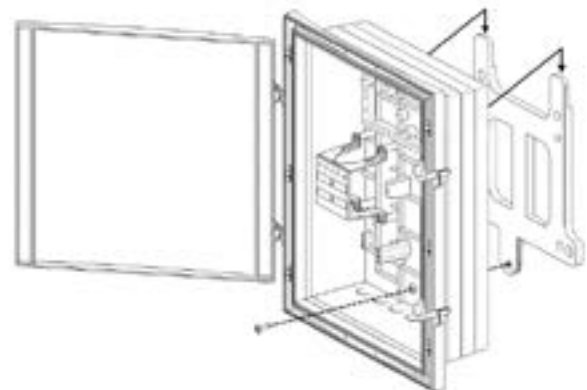
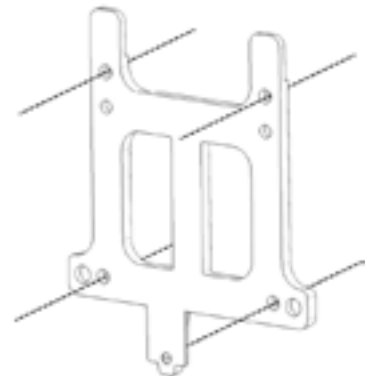
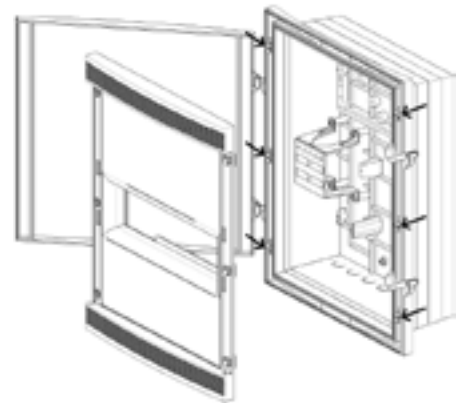
Use the mounting bracket as a drilling template.

Mount the bracket on the wall using the screws and bushings provided.

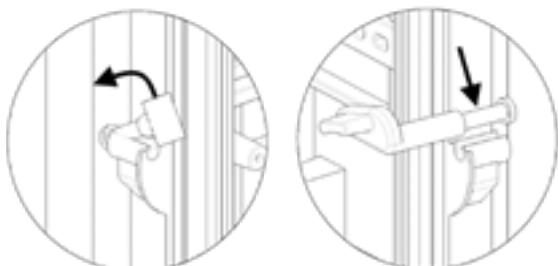
Hang the electrical panel on the bracket and put the retaining screw back in position.

Insert the cable glands and carry out wiring.

Replace the front facing once wiring is complete.



1.2. Reversing the electrical panel door swing



Take the door off its hinges.

Remove the hinges and the locks.

Invert and replace the hinges and locks.

Clip the door back onto its hinges.

CAUTION

The instructions set out here only concern connections to be carried out by the installer.

The electrical panel is pre-wired in the factory and should under no circumstances be modified at the risk of damage or injury.

It is of utmost importance to use cables with a cross section that is adequate for the current that they will carry.

Check that connections are correctly tightened.

An inadequately sized cable or loose connection could heat up and start a fire.

According to the standard C15-100, a 30 mA residual current device must be installed at the head of the line.

2. Key switch

The key switch must be installed in a place from which the entire pool is visible. This will allow the person operating the key switch to unroll the cover over the pool to ensure that there is no-one in the pool for the entire duration of the operation (NF P90-308 requirement).

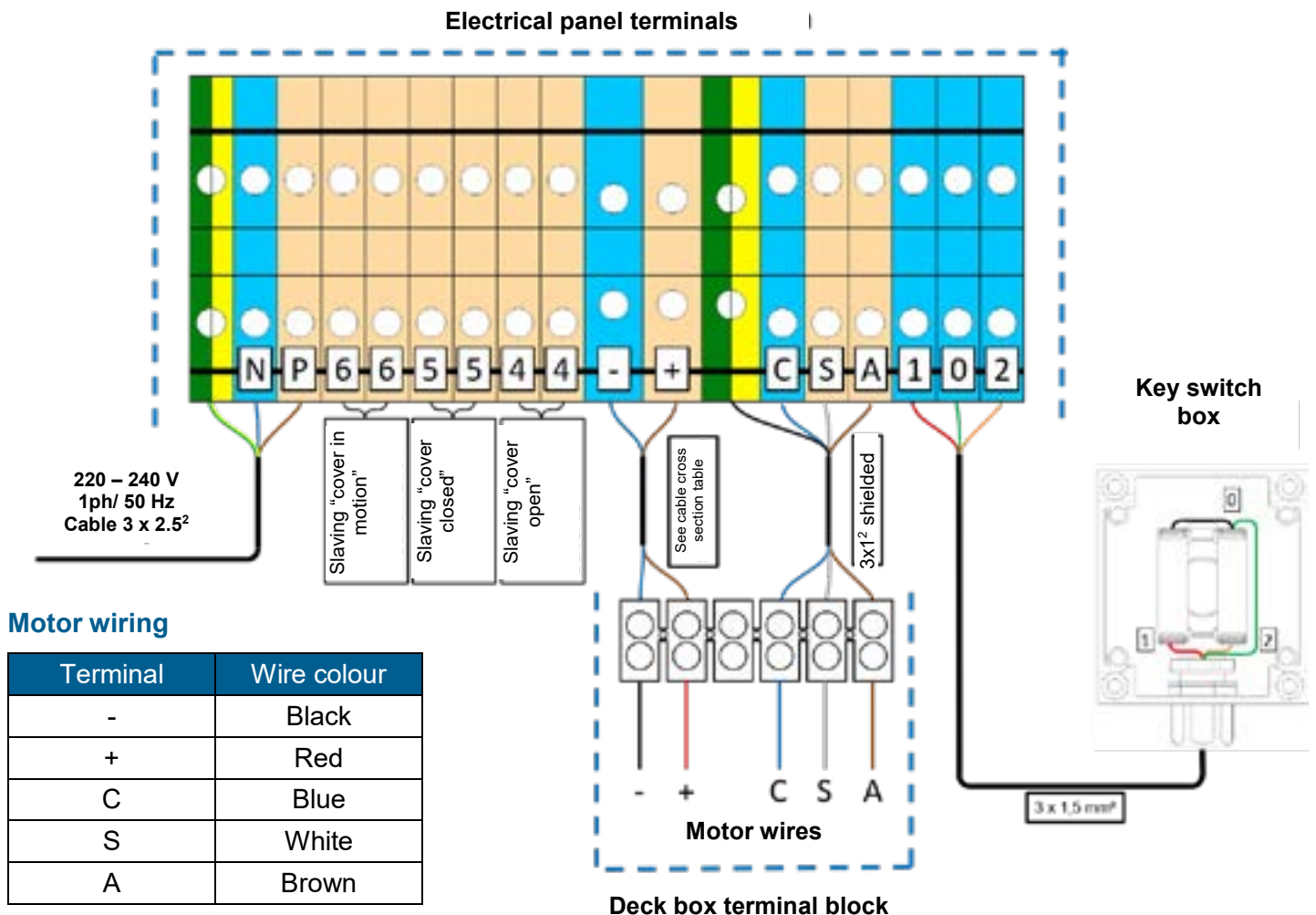
Lay a duct between the key switch and the electrical panel to run the cables.

3. Electrical wiring

Check that the electrical panel terminals are connected to their corresponding terminals in the connection box.

Check that the stripped sections of the wires are tightened correctly in their terminal contacts.

The electrical connections to be made are as follows:



Cable cross sections

Distance motor/panel	Motor power cable, recommended cross section		Recommended cross section for the shielded signal cable	Recommended cross section for the key switch box cable
	C120	C300		
10 m	3 x 2.5 mm ²	3 x 4 mm ²	3 x 1 mm ²	3 x 1.5 mm ²
20 m	3 x 2.5 mm ²	3 x 6 mm ²	3 x 1 mm ²	3 x 1.5 mm ²
30 m	3 x 4 mm ²	3 x 10 mm ²	3 x 1 mm ²	3 x 1.5 mm ²
40 m	3 x 6 mm ²	3 x 16 mm ²	3 x 1 mm ²	3 x 1.5 mm ²

Make sure to connect the shielding on the end of travel cables (terminals C-S-A) to earth. In the diagram above, shielding is symbolised by a black wire going to the earth terminal 6 mm².

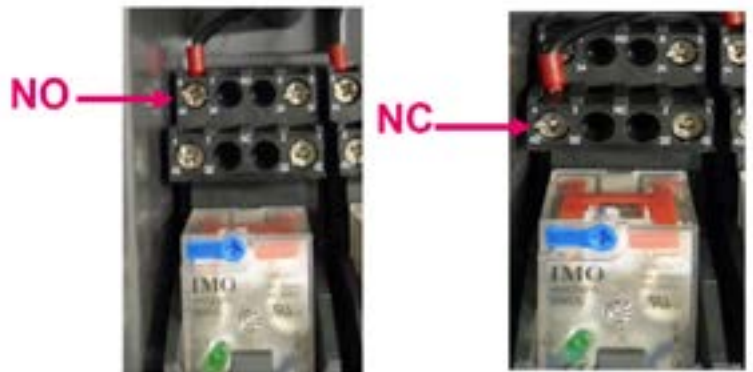
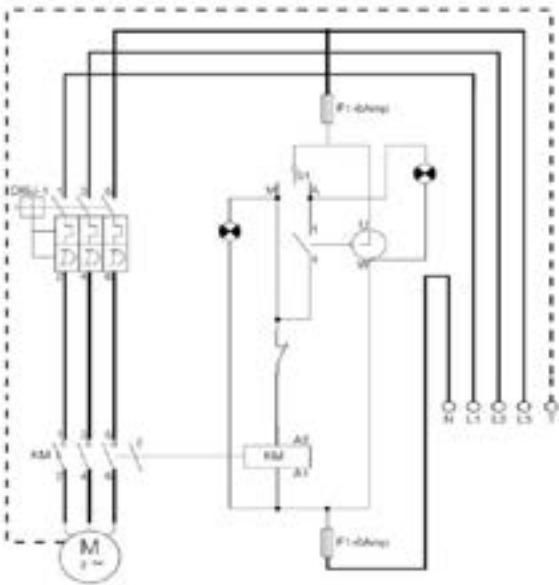
3.1. Slaving

Slaving is possible via a potential free dry contact (refer to the diagram on the previous page and the wiring diagram).

Slaving can be associated with the filtration pump, booster pump, etc.

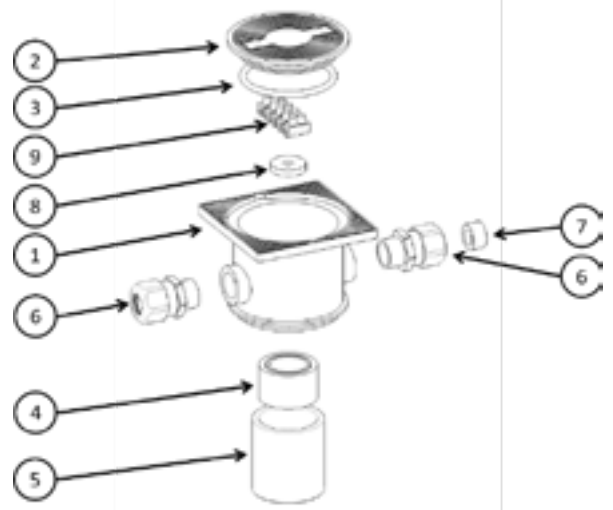
The connection at the relay in the automatic cover electrical panel is normally open (NO). This must be changed to normally closed (NC) to carry out slaving.

Filtration panel wiring diagram:



3.1. Stardeck AX-IN deck box

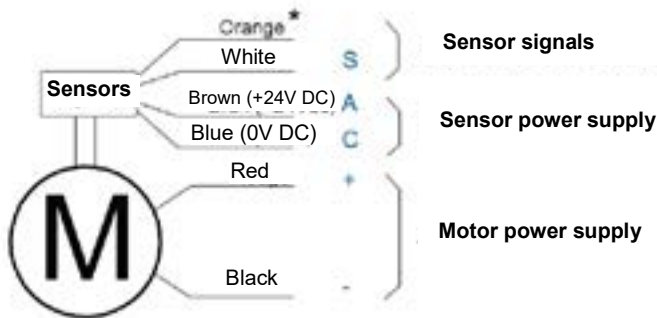
Ref	Description	Qty
1	Deck box body	1
2	Deck box lid	1
3	O-ring Ø72 x 5	1
4	Reducer 50-32	1
5	Sleeve F/F Ø50	1
6	Cable gland	2
7	Cable gland gasket Ø14 x 22.5 Th 12.5	1
8	Gasket Ø9 x 30.5 Th 6	1
9	Terminal block 10 mm ²	1
10	two-component gel, 500 mL	1



The deck box is delivered with a 50-32 reducer (4) and a F-F Ø50 sleeve (5), allowing connection of a Ø50 pipe to the collar and its 40-50 reduced, enclosed with the motor-side anchoring system.

The deck box features two cable glands (6) one for the power cable and one for the signal cable. Leaktightness of the signal wire is ensured by the cable gland (7). Place the gasket Ø9 x 30.5 Th 6 (8) in the bottom of the deck box body (1). The motor cable will be passed through it and this will allow retention of the two-component gel (10) in the deck box once all the wiring is finished.

Connecting the cable in the deck box.



*The orange wire is not used

In the deck box body (1), connect the 5 motor wires to the terminal block (9), as described in the diagram above and the control panel terminal diagram. The motor cable is comprised of:

- 2 wires for the sensor signal (S),
- 2 wires for the sensor power supply (A/C),
- 2 wires for the motor power supply (rotation direction +/-).

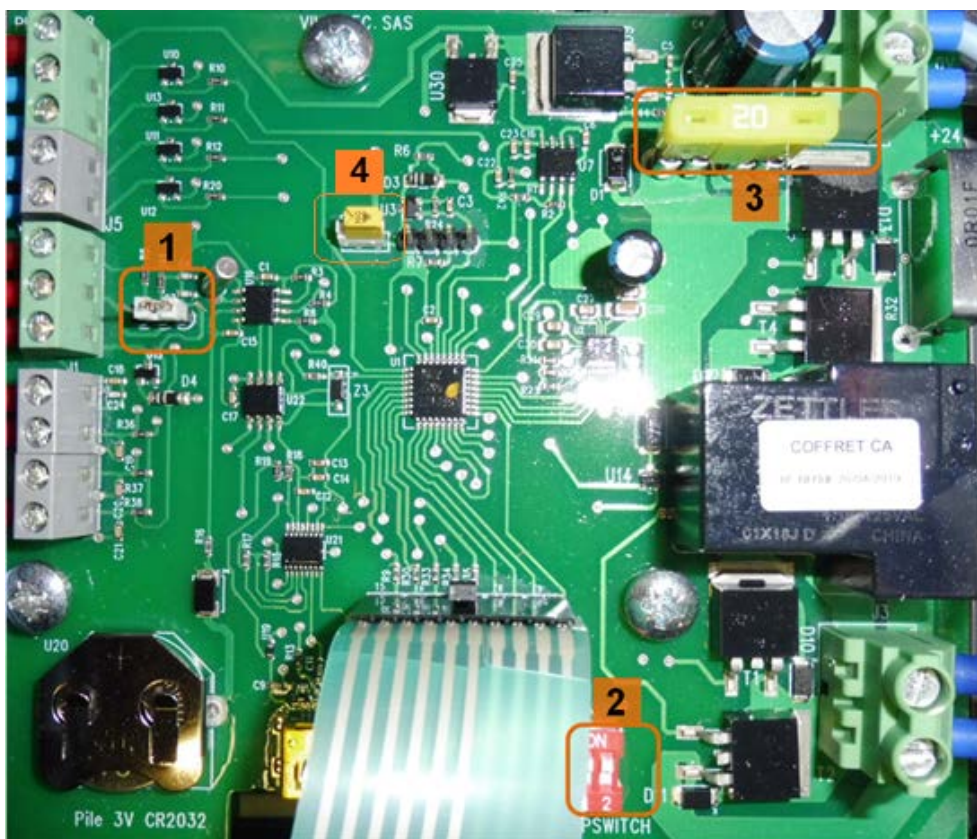
Once correct operation of the cover has been verified (direction of rotation of the axle, memorisation of ends of travel, etc.), and the deck box has been fixed, it can be filled with the removable waterproof gel (supplied) to protect the contacts against humidity.

If the rotation of the axle is incorrect, invert it as shown in the section describing the printed circuit board.

4. Setting and programming ends of travel

The ends of travel are managed by a printed circuit board. An electrical panel is used to program the ends of travel.

4.1. The printed circuit board



Number 1: Jumper

There are two possible positions for the jumper; the position is selected depending on the motor drive system. In the case of an AX-IN motor, the jumper connects **the right-hand side pine and the centre pin**.

Number 2: Dipswitch

Dipswitch number 1 is used to change the direction of rotation of the motor, this will depend on the side of the pool on which the motor is located (refer to the figure opposite):

- Motor on the right-hand side: dipswitch 1 should be set to OFF
- Motor on the left-hand site: dipswitch 1 should be set to ON

Dipswitch number 2 should always be set to ON.

Number 3: Fuse

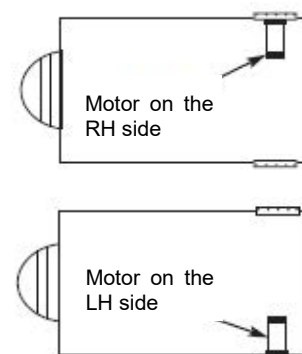
The board should never be fitted with a fuse with a rating above 20 A. The use of a fuse rated for the automatic cover motor is highly recommended.

In the case of an AX-IN-120 motor, **place the 7.5 A fuse (supplied) on the PCB**.

In the case of an AX-IN-300 motor, **place the 10 A fuse (supplied) on the PCB**.

Number 4: Reset

This is used to reset the PCB.











5. The electrical panel

This panel features 3 buttons and 5 LEDs, as described in the table below.

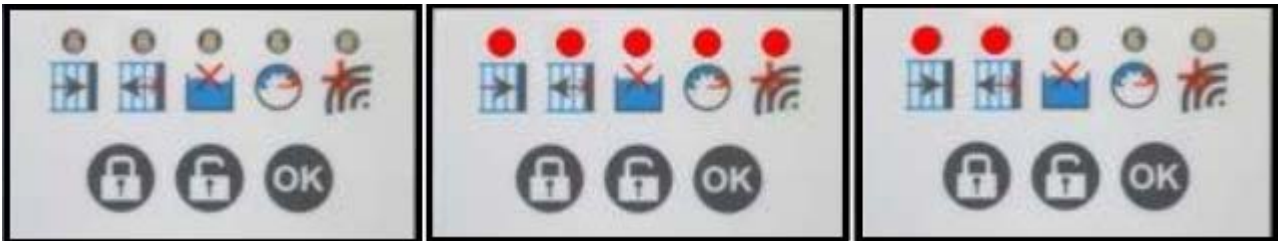
As regards the first 2 LEDs, blinking signifies that learning is underway, while a fixed light indicates that learning must be carried out (for the first two LEDs).

If the 5th LED is lit up, this means that there is a fault on the motor sensor signal line.


							
Ends of travel	Not used	Not used		Motor sensor signal	Validation of the closed position	Validation of the open position	Validation of the step performed

The PCB automatically manages stopping of the cover apron when it is fully opened or closed. The exact positions must be established and saved when the cover is commissioned according to following procedure and steps. These positions may be altered at any time by following the same procedure.

5.1. Initialisation of the printed circuit board



On the control panel, all the LEDs are out.

Hold these keys down for 5 seconds: 

All five LEDs will blink.

Press OK briefly.

The first two LEDs will light up, initialisation is complete.

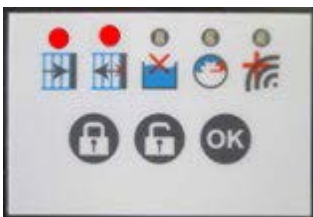
5.2. Validation of the direction of rotation of the axle


Insert the key into the key switch. When the key is turned to FERM, the cover apron should roll out over the pool. When turned to OUV, the cover apron should roll up around the axle.

NOTA BENE: it is normal for the key to return to the 0 position when it is released.

If the direction of rotation is inversed with respect to the markings on the key switch, change the position of dipswitch 1 (see above) on the printed circuit board.

5.3. Programming the ends of travel



Turn the key and hold it in position until the cover apron reaches the side opposite the axle. Validate the pool closed position by pressing . The leftmost LED starts to blink and the second is lit up.



Turn the key and hold it in position until the cover apron is round the axle. Validate the pool open position by pressing . The leftmost LED goes out and the second LED is lit up.



Turn the key to close the pool. Hold the key in position until the motor stops.

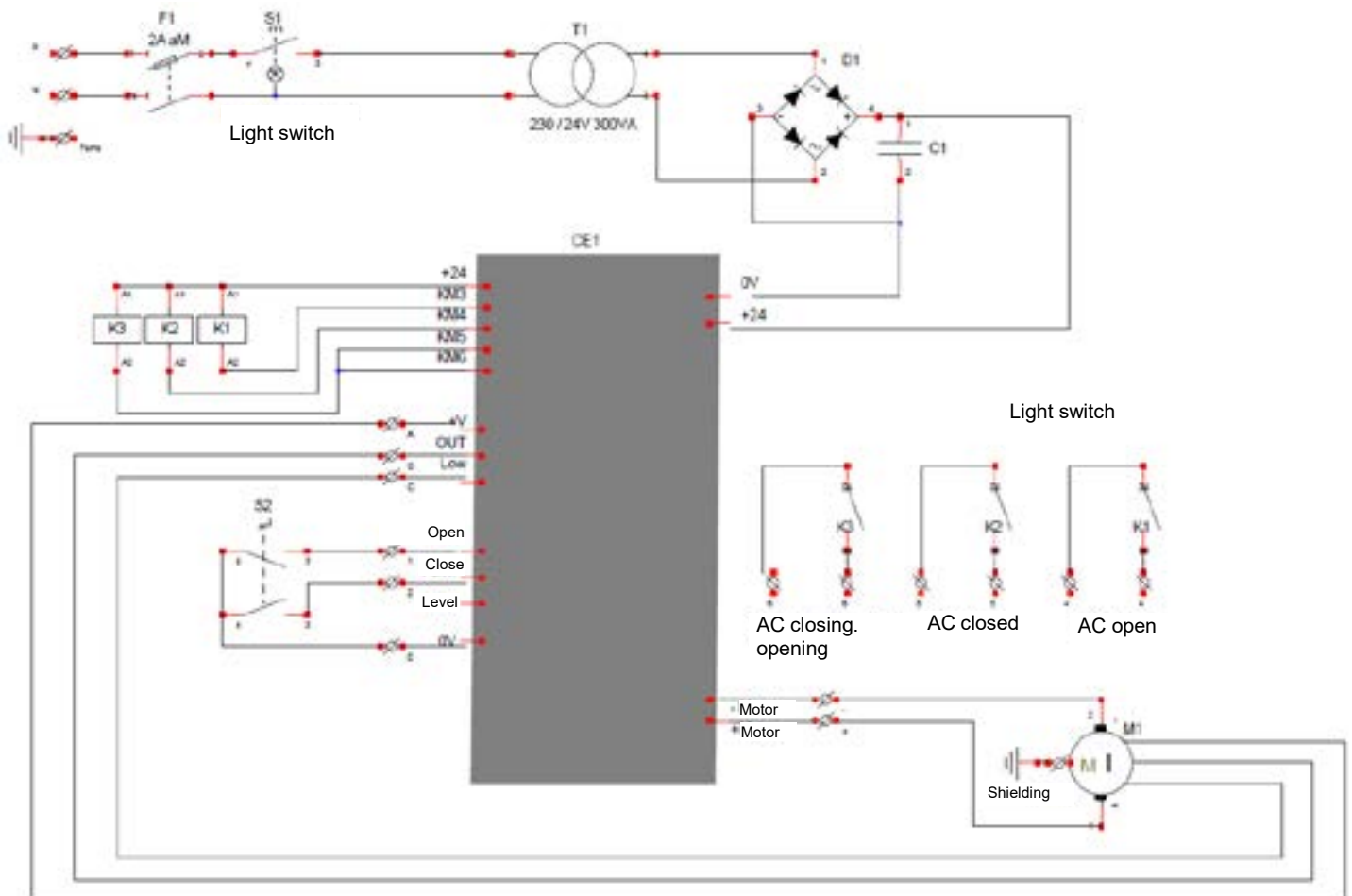
Turn the key in the other direction, giving it a twist. The 2nd LED blinks. The cover rolls up around the axle. When the LED goes out, programming is complete.

NOTA BENE: The ends of travel can be deleted from memory in the event of a power outage:

- While the cover is in motion, either opening or closing.
- If the cover is partially open or partially closed.

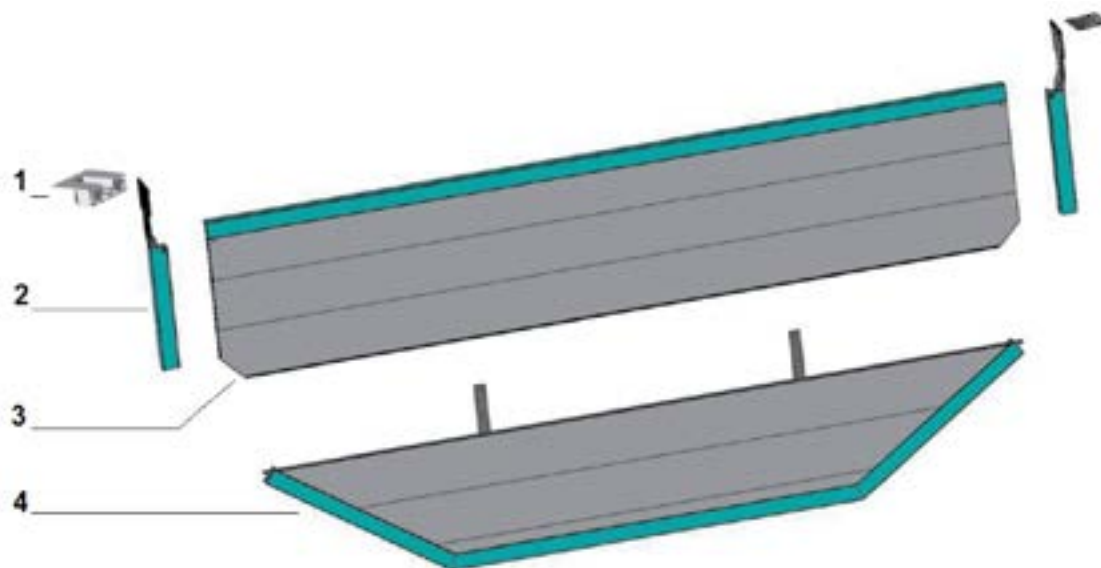
In that event, simply reprogram the ends of travel as described previously.

6. Wiring diagram



SEPARATING PIT WALL

1. Description of the product



Ref	Description	Qty
1	Beam mounting unit or sub-coping support plate	2
2	Pit wall mounting flange	2
3	Straight separating pit wall	1
4	Separating pit wall cut to fit shaped walls (e.g. trapezoidal)	1

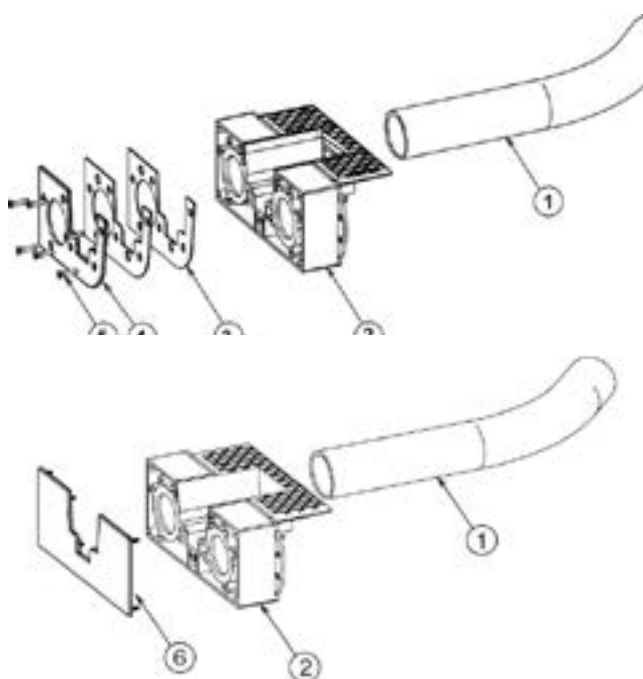
2. Mounting the pit wall mounting flange - Stardeck

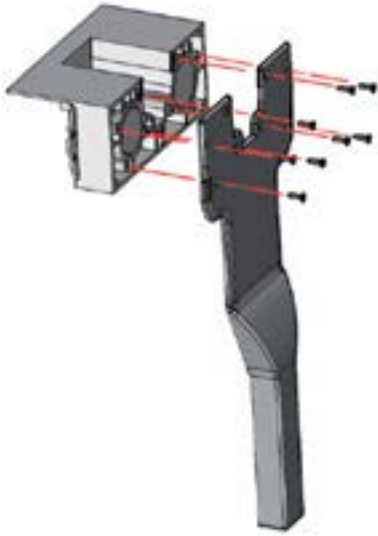
Pit wall side flanges are installed on the beam mounting units.

If the mounting units have not been installed yet, proceed with their installation now but do not install the mounting unit flange "4" (liner pool) or the flange trim "6" (concrete pool).

If the beam has already been installed, pull up the coping at the beam and remove the flange "4" or the flange trim "6".

Ref	Description	Qty
1	Elbow duct Ø 50	1
2	Beam mounting unit body	1
3	Beam mounting unit gasket	2
4	Mounting unit flange (RH and LH))	1
5	Countersunk screw ST 4.2 x 19	6
6	Mounting unit trim (RH and LH)	1

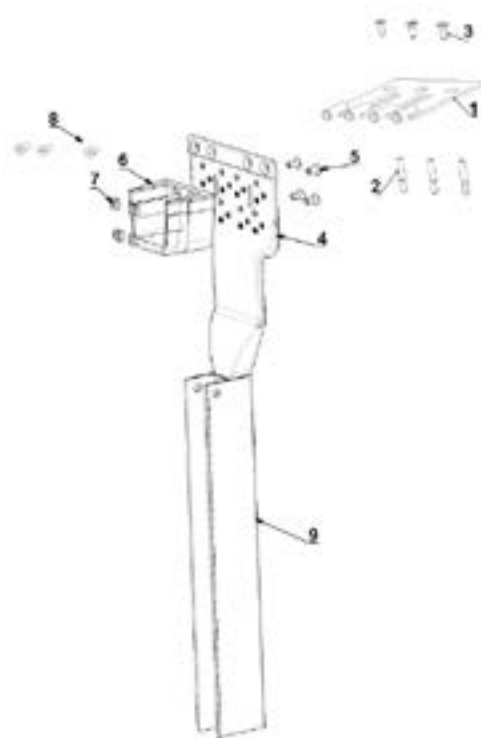




Fasten the pit wall mounting plate to the mounting units 8 countersunk screws ST 4.2 x 19.

3. Installation of the pit wall mounting flange – Coverdeck

Ref	Description	Qty
1	Sub-coping support plate	2
2	Upat bushing M8 x 50 SS A4	6
3	Countersunk hex socket screw M8 x 20 SS A4	6
4	Separating pit wall mounting flange, RH and LH	2
5	Countersunk hex socket screw M8 x 16 SS A4	8
6	Beam support shoe	2
7	Nut Q8 SS A4	8
8	Countersunk hex socket screw M8 x 20 SS A4	6
9	Separating pit wall profile, LH and RH	2



Installation is identical to that of a Coverdeck beam and mounting unit, except that separating pit wall mounting flange is inserted between the sub-coping support plate and beam support shoe instead of the beam mounting plate.

Take up the coping at the points where the sub-coping support plates will be installed.

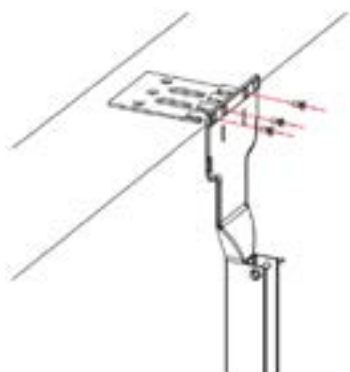
The surfaces that will receive the sub-coping support plates must be completely flat and level.

- Position the plates as shown in the diagram (configuration with standard extension).
- Position the pit wall flanges such that the front of the pit wall is level with the centre of the beam support shoe.

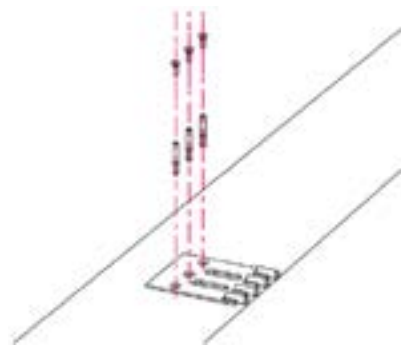


- Using the 13 mm concrete drill bits, counter drill at the location of the circular holes.
- Fix in position using bushings, M8 x 50 A4, and Allen head countersunk screws M8 x 20.

Important: Do not replace the coping until installation of the separating pit wall is complete.

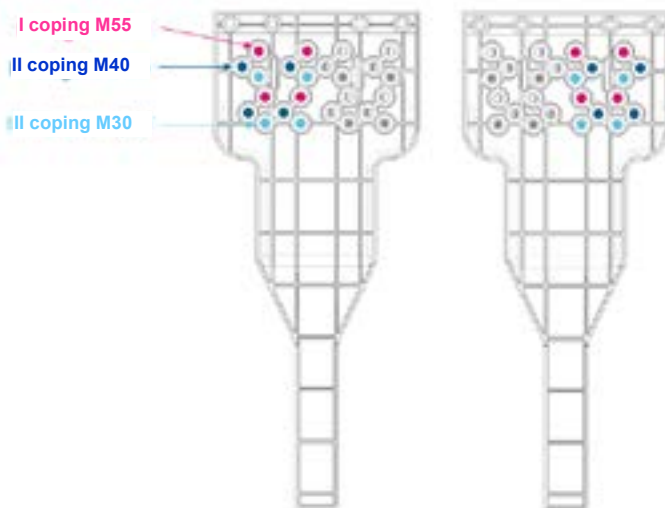


Fasten the pit wall flanges to the support plates using 3 Allen head countersunk screws M8 x 20.



Position the beam support shoe according to the type of coping.

Using an M8 drill bit, drill the pit wall flange at the locations corresponding to the position of the beam support shoe.



The assembly described below concerns the left-hand side.



Mount the shoe on the flange (refer to the location of the shoe in relation to the height of the coping in the paragraph describing the beam). The shoe must be fastened to the flange offset to the pool side and not the pit side.

Mount the sub-coping support plate on the pit wall flange.

Fasten the sub-coping support plate/flange assembly in position using Upat M8 bushings.

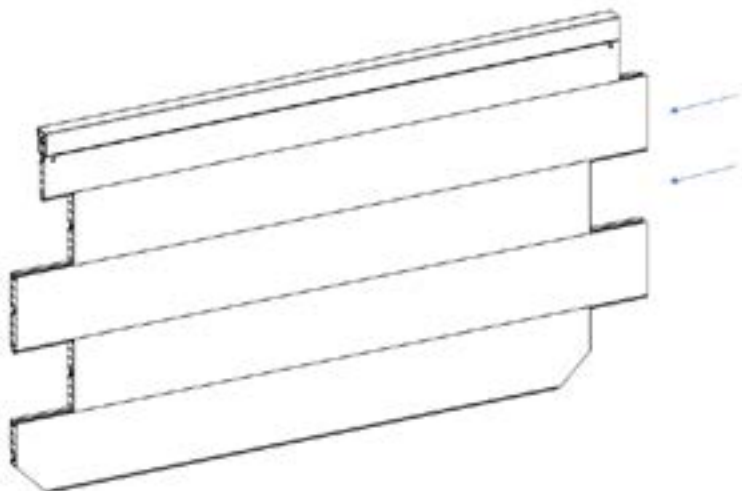
Proceed with installation on the right-hand side in a symmetrical manner.

4. Assembling the separating pit wall

Avoid assembling the pit wall on very windy days.

4.1. Straight wall

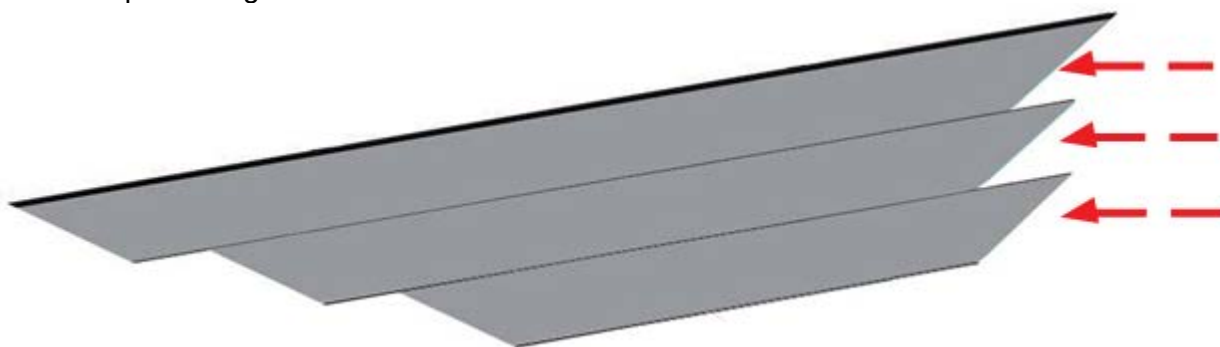
The various panels fit together by a tongue and groove mechanism (sliding). Orient the panels such that the notch faces the cover pit for aesthetic purposes.



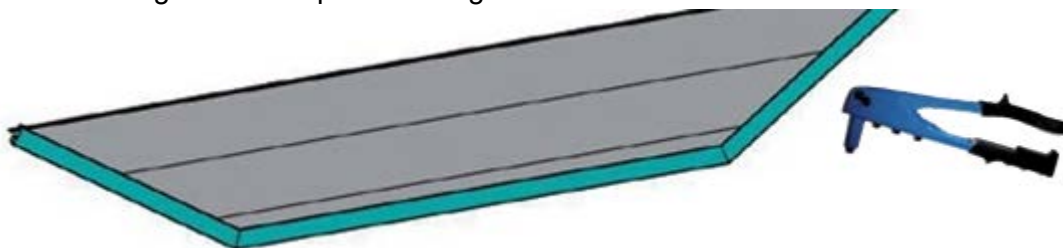
4.2. Trapezoidal wall

In the event that your pit wall includes a lower trapezoidal section, assemble it as follows:

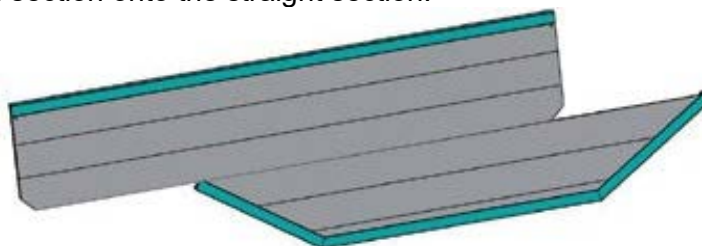
Slide the various panels together.



- Fasten the finishing trim to the pit wall using Aluminium rivets.



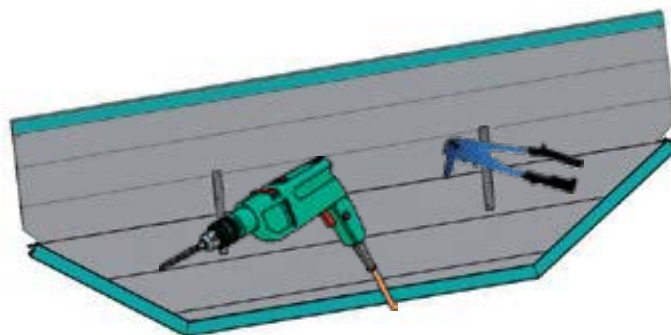
- Slide the trapezoidal section onto the straight section.



Lay the assembled pit wall flat on the ground, pool side (smooth side) down.

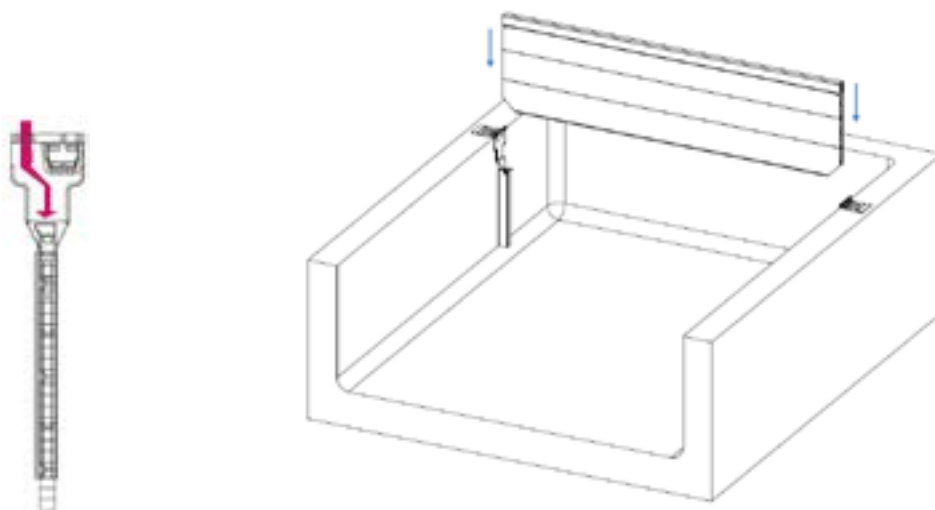
Position the flat bars so that they straddle the straight section and the trapezoidal section at locations that divide the pit wall into roughly 3 equal sections.

Adjust the height of the flat bars such that the holes do not coincide with a groove or join between the panels. Counter drill the panels through the holes in the flat bars and rivet together.



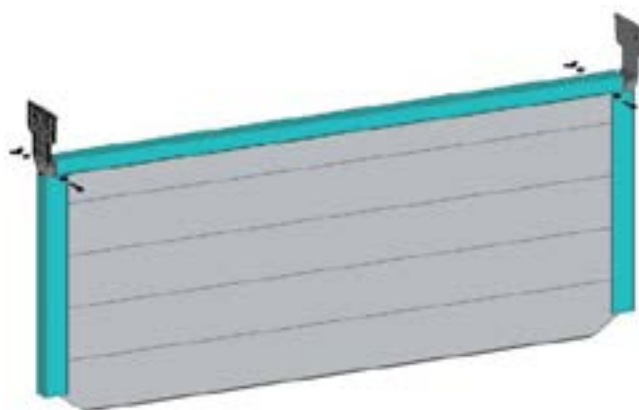
5. Putting the separating pit wall in position

Slide the pit wall assembly into the lateral pit wall flanges.



Assembly of the Coverdeck type pit wall from behind the beam.

Fasten the pit wall to the lateral flanges using screws, washers and M10 nuts.



ASSEMBLY OF THE COVER APRON

1. Preparation prior to assembly

Before proceeding with installation, check that all the necessary parts are present.

The cover apron is delivered in preassembled sections of 6 PVC slats or 4 PC slats. If the pool features steps, the slat section to cover the steps are found on top.

The last slat (axle side) is equipped with straps to fasten it to the axle.

Check that the five U shaped pins used to attach the straps to the axle are present in the groove in the axle (except for the Ø 250 mm axle, this axle should be equipped with metallic plates screwed into position).

Check that the beam is also equipped with U shaped pins (standard water level). These will be used to attach the counterweight straps.

Place the box near the pool.

2. Assembly of the slat apron

The slat sections are assembled by sliding one section onto the other on the surface of the water.

If the slats are different lengths, the slat sections will be numbered and the order of assembly must be respected. The preassembled section labelled 1 is always the section closest to the cover axle. It is easily identified by the slanted edges of the first slat.

CAUTION

Store the slats in the shade until they are being assembled. If the slats, and notably solar slats, are exposed to sunlight without being in contact with the water, they will heat up and become deformed.

Blocking the slats in position:

Once the slat apron is assembled, the tabs on the plugs will prevent the slats from sliding laterally. On slats finished with silicon, these tabs are replaced with stops inserted in the either end that serve this same function.

The outer double hook of the slat is opposite the axle.



2.1. **Assembly of cover apron, slats finished with plugs**

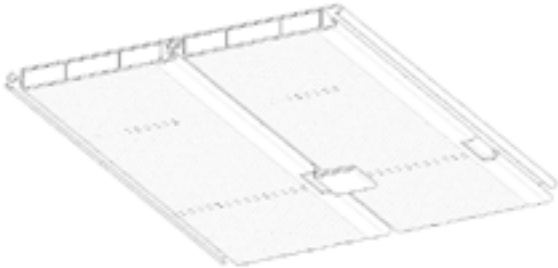
Start assembly at the notch in the male part of the slat, holding the two slat sections at an angle of approximately 150° with respect to each other (the slats may be bent while you slide them together). Slide them together as far as they will go.



2.2. Assembly of the cover apron, slats finished with silicon

Engage the tongue and groove of the two slat sections (the slats may be bent while you slide them together). Slide them together carefully until the slats are aligned with each other.

Place a dot of PVC glue (not supplied) on the retainer before clipping it into the notch provided under the slat apron.



2.3. Assembly of the complete cover

Place the first slat section (section with the slat equipped with axle/ slat apron connection straps) on the surface of the water.

Line up the next slat section and slide it onto the first.

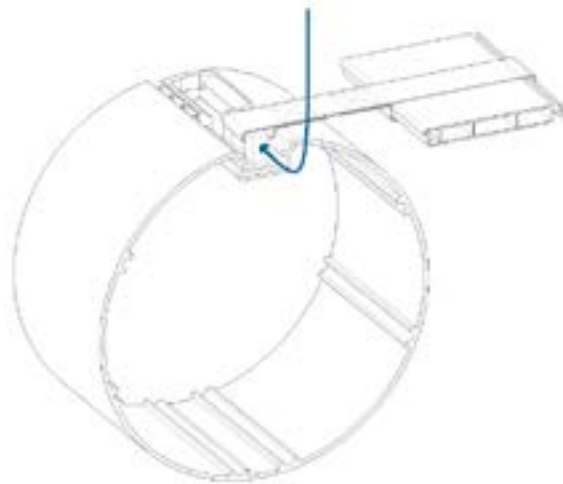
Push the assembled section aside on the water to proceed with assembly of the next section.

Repeat this procedure until you reach the last section equipped with the safety straps.

2.4. Attach the slat apron to the axle

Ø 190 or 192 mm axle:

Insert the black clip in the U located in the axle.



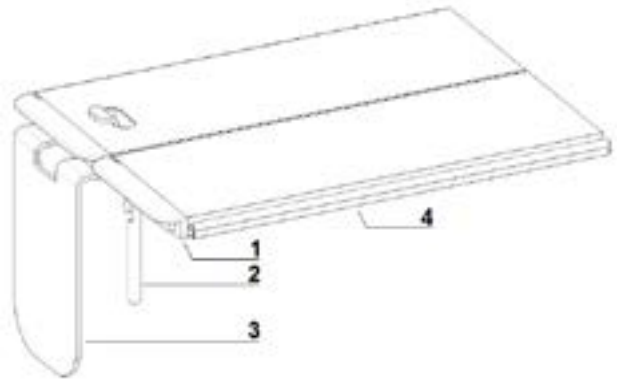
2.5. Retainers for pools with step pieces (option)

If the slat apron features a section to cover submerged steps or a particular pool shape, this section will be fitted with retainers attached under the 2nd and 8th slats. These retainers block the slat apron when it is rolled around the axle, and prevent it from unrolling backwards by itself.



2.6. PVC slats: Guide weights for overflow pools (option)

Ref	Description	Qty
1	Slat plug	1
2	Guide weight	1
3	Overflow bracket*	1
4	Slat	1



*The bracket is supplied with the hasp fastener for the buffer and overflow tank.

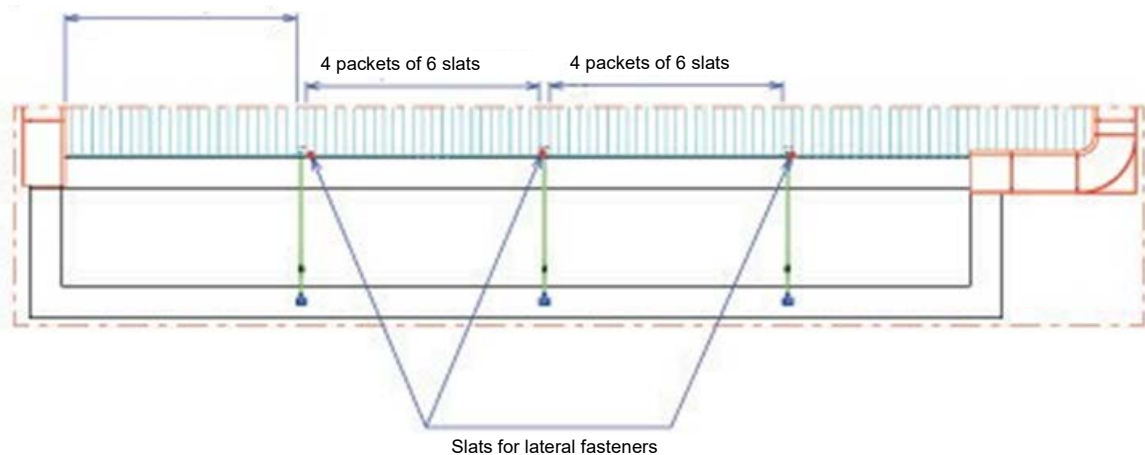
The overflow bracket (3) is a removable part, it plays a role in safety. It must be put in place when the cover is rolled out over the pool and must be removed before opening the cover.

The guide weight (2) is mounted on the overflow slat in the factory. Its purpose is to guide the cover apron while it is being rolled up and rolled out.

Spacing between fasteners for overflow pools

The fasteners may be at most 1.8 m apart.

4 packets of 6 slats + slat radius 15 or fastener slats

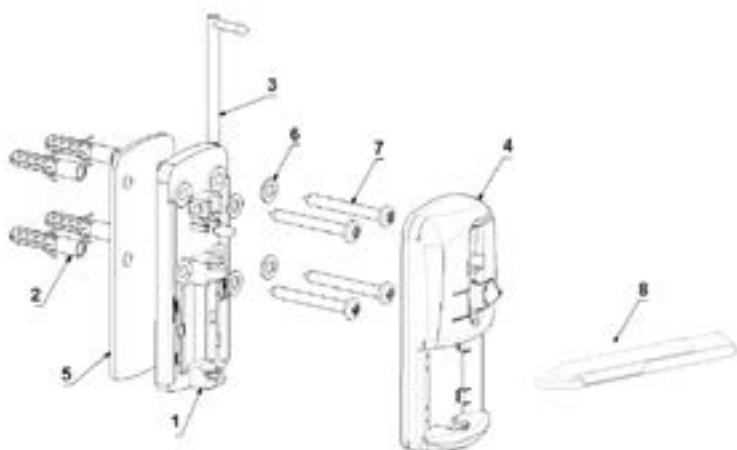


2.7. Cover apron safety fasteners

2.7.1. Wall mounted safety fastener

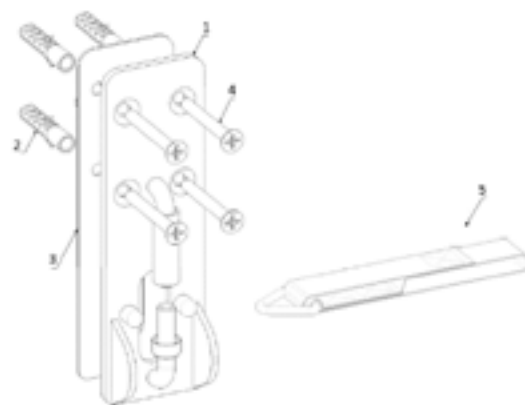
Version with trim

Ref	Description	Qty
1	Fastener frame	1
2	Nylon S8 bushing	4
3	SS slide bar	1
4	Trim	1
5	Frame gasket	1
6	Washer Z8	4
7	Z cross recess pan head screw ST 5.5x50	4
8	Fastener strap	1



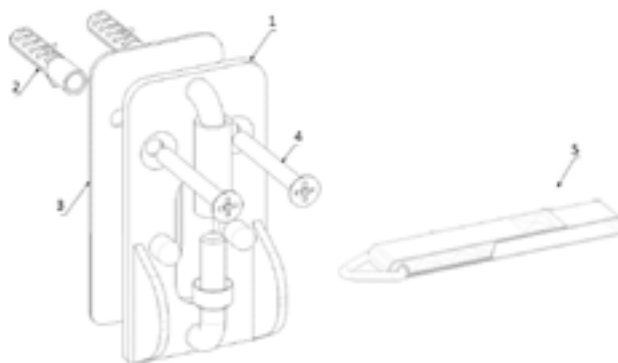
Stainless steel version

Ref	Description	Qty
1	Fastener frame	1
2	Nylon S8 bushing	4
3	Frame gasket	1
4	Pozidrive countersunk screw ST 5.5x50	4
5	Fastener strap	1



High water line version

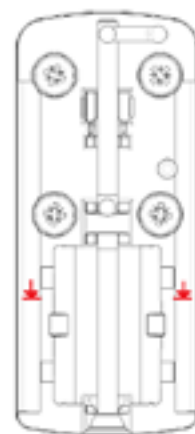
Ref	Description	Qty
1	Fastener frame	1
2	Nylon S8 bushing	2
3	Frame gasket	1
4	Pozidrive countersunk screw ST 5.5x50	2
5	Fastener strap	1



Installing the fasteners

The fastener straps are already attached to the first two slats of the cover apron.

Attach the fastener frame (1) to the wall opposite the axle exactly opposite the fastener straps using the pozidrive countersunk screws ST 5.5 x 50. Position the fastener frame such that the arrow markings coincide with the water level. In the case of liner or reinforced membrane pools, do not forget to insert the fastener gasket between the fastener frame and the membrane.



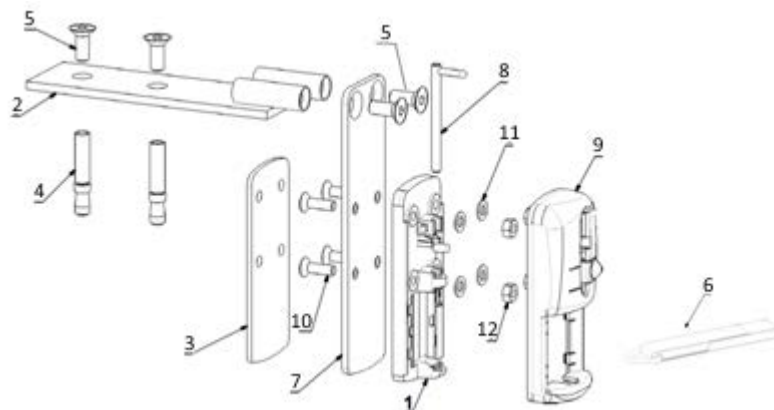
2.7.2. Sub-coping mounted safety fastener

2.7.3. Sub-coping mounted safety fastener

Sub-coping mounted safety fasteners are compatible with thin walled and polystyrene block prefab pools.

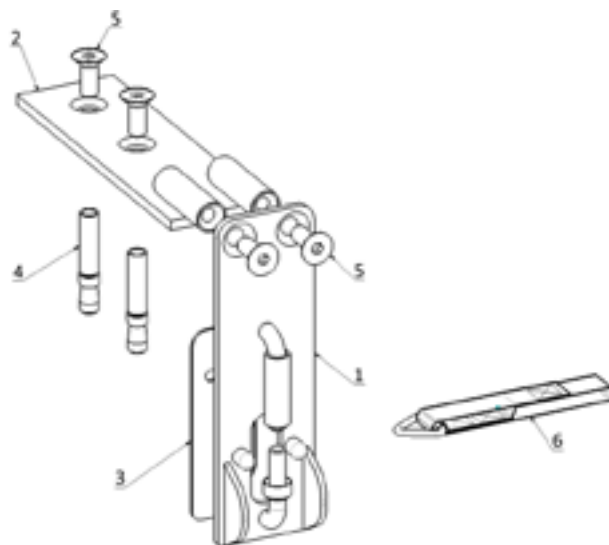
Version with trim

Ref	Description	Qty
1	Fastener frame	1
2	SS support bracket	1
3	Fastener gasket	1
4	UPAT M8 × 50 bushing	2
5	Countersunk hex socket screw 8x20 A4 SS	4
6	Fastener strap	1
7	SS plate	1
8	Stainless steel slide bar	1
9	Trim	1
10	Countersunk hex socket screw M6x20 A4 SS	4
11	Z 6 A4 SS washer	4
12	H 6 A4 SS nut	4



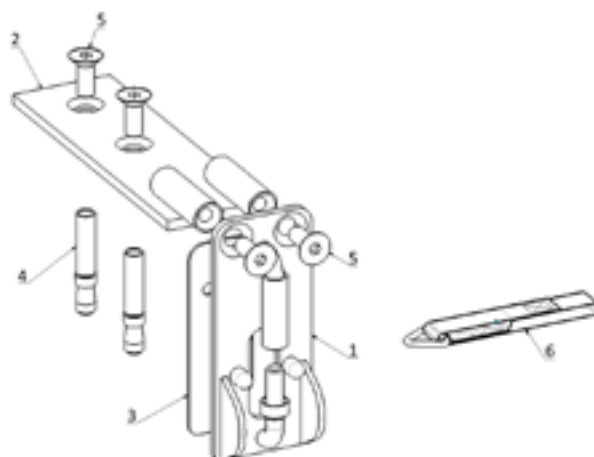
Standard stainless steel version

Ref	Description	Qty
1	Fastener frame	1
2	SS support bracket	1
3	Fastener gasket	1
4	UPAT M8 × 50 bushing	2
5	Countersunk hex socket screw 8x20 A4 SS	4
6	Fastener strap	1



High water stainless steel version

Ref	Description	Qty
1	Fastener frame	1
2	SS support bracket	1
3	Fastener gasket	1
4	UPAT M8 × 50 bushing	2
5	Countersunk hex socket screw 8x20 A4 SS	4
6	Fastener strap	1



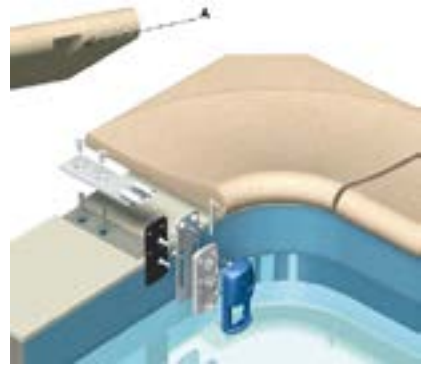
Installation of the fasteners

Shape the underside of the coping (A) to accommodate the safety fastener.

Drill through the fastener support bracket (3) Ø 10 mm - depth 8 mm).

Fix the sub-coping support plate in position using two UPAT M8x50 bushings and two Countersunk hex socket screws M8x20.

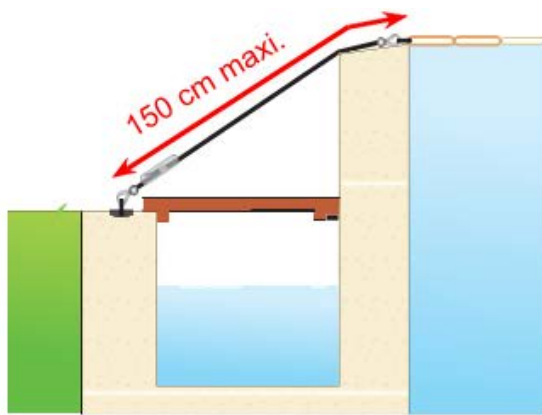
Version with trim: The fastener frame (1) is then mounted on the plate using four Countersunk hex socket screws M6x20 (6) with Z6 washers (8) and H M6 nuts (9).



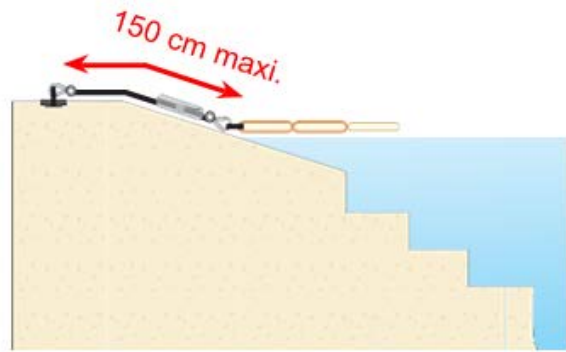
2.8. Adjustable strap at the end of the pool

2.8.1. Strap configurations

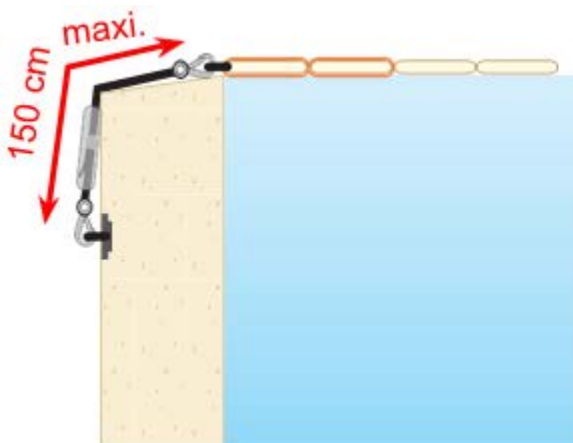
Overflow pool with buffer tank



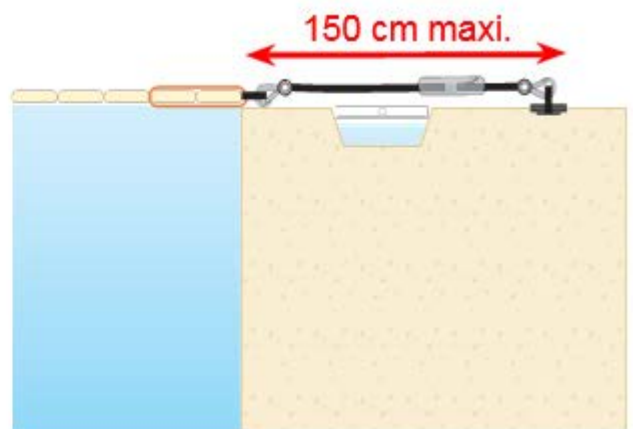
Pool with beach entry deck



Overflow pool without buffer tank



Overflow pool with drain



To protect the leaktightness of the waterproofing finish, use straps with a fixed, stainless steel hasp. Install an adjustable strap opposite each of the cover apron's safety straps.

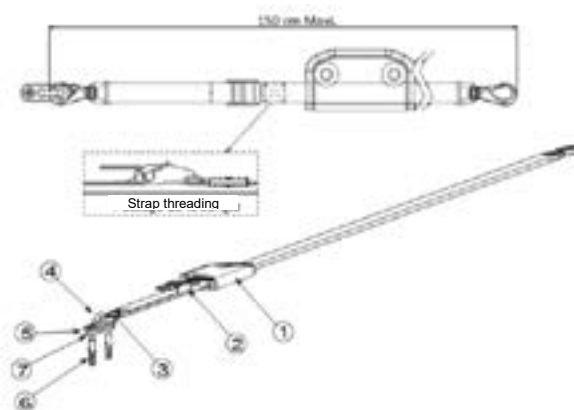
CAUTION

French regulations require the installation of closing straps.

Do not forget to release the straps before rolling the cover up, failure to do so could cause significant damage.

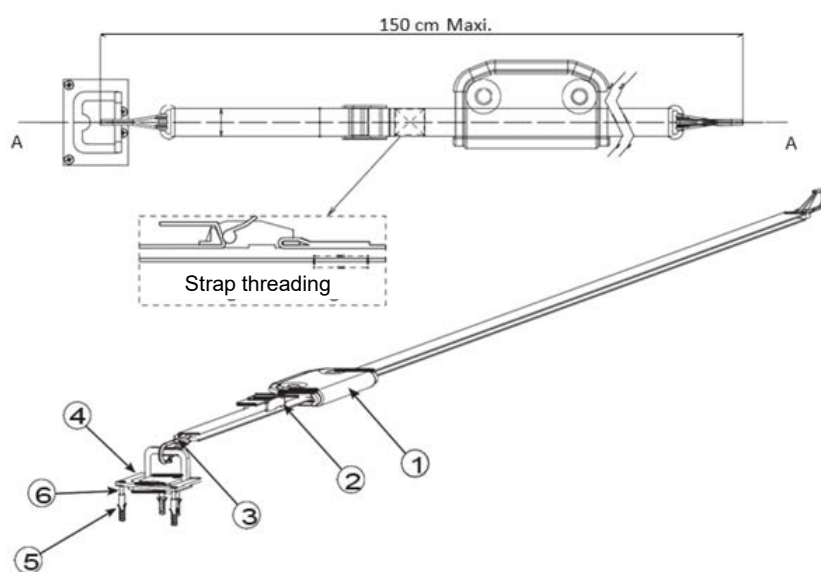
2.8.2. Stainless steel, fixed hasp fastener

Ref	Description	Qty
1	Protective sleeve	1
2	Strap and cam buckle	1
3	Hinged stainless steel carabiner	1
4	Fixed hasp	1
5	Fixed hasp gasket	4
6	Nylon S8 bushing	4
7	Pozidrive countersunk screw ST 5.5x50 SS A4	4



2.8.3. Stainless steel, collapsible hasp fastener

Ref	Description	Qty
1	Protective sleeve	1
2	Strap and cam buckle	1
3	Hinged SS carabiner	1
4	Collapsible hasp	1
5	Hasp gasket	4
6	Nylon S 6x30 bushing	4
7	Pozidrive countersunk screw 3.9x38 SS A4	4



2.8.4. Attaching the strap to the hasp

1-Thread the strap through the carabiner loops.

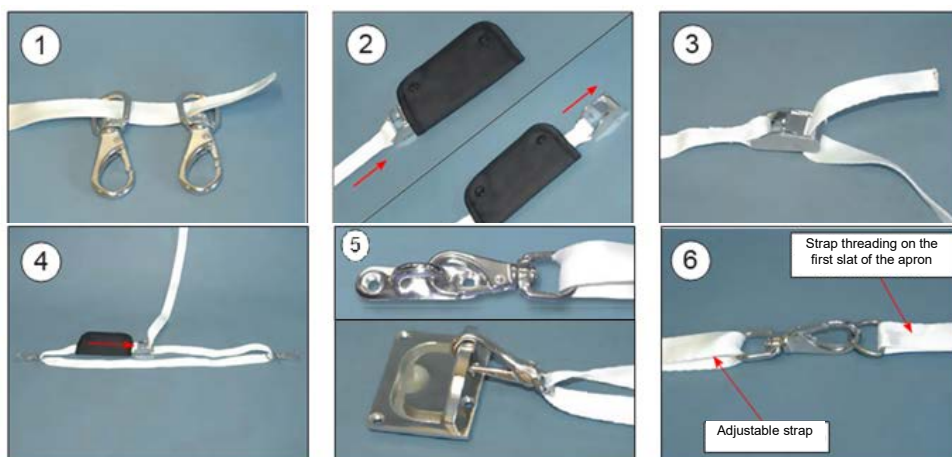
2-Slide the cam buckle through the sleeve and pull it out the other side.

3-Thread the end of the strap through the cam buckle catch.

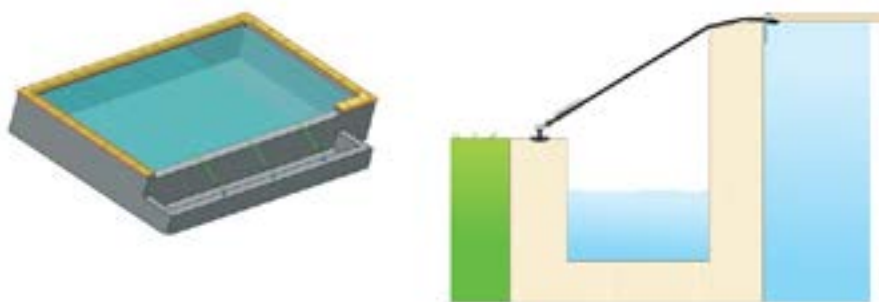
4-Arrange the assembly as shown after it has been adjusted to the correct length. Slide the black sleeve over the cam buckle.

5-Attaching a carabiner to a fixed or collapsible hasp.

6-Attaching a carabiner to the strap on the first slat of the cover apron.



2.8.5. Hasp fastener for overflow and buffer tank

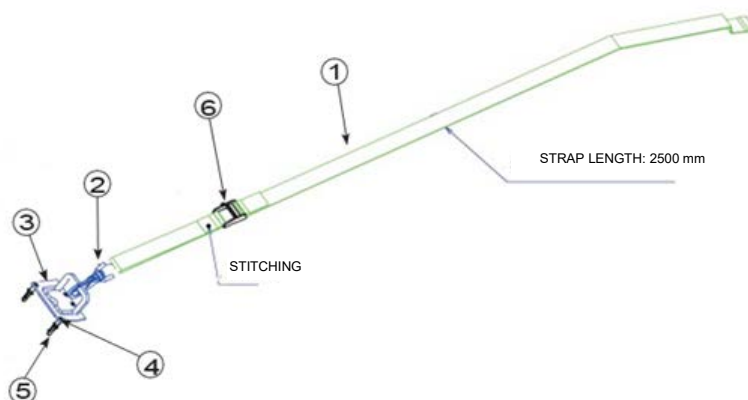


CAUTION

French regulations require the installation of closing straps.

Do not forget to release the straps before rolling the cover up, failure to do so could cause significant damage.

Ref	Description	Qty
1	Strap	1
2	Hinged SS carabiner	1
3	Collapsible hasp	1
4	Pozidrive countersunk screw 3.9x38 SS A4	4
5	Nylon S 6x30 bushing	4
6	Cam buckle	1



- 1-Thread the strap through the carabiner loops.
- 2-Thread the strap into the lateral fastener.
- 3-Thread the end of the strap through the cam buckle catch.
- 4-Lay out the assembly and adjust it to the correct length.
- 5-Attaching the carabiner to the collapsible hasp.

2.8.6. Installation of the lateral fasteners

Blocking the cover apron in position using the lateral straps:

With the cover apron rolled out fully over the pool, attach the fasteners to the perforated slats by inserting them from underneath. Next, attach the ends of the straps to the collapsible SS hasps using the carabiner.



2.8.7. Recommendations concerning the installation of hasps

Fixed stainless steel hasp

Drill two Ø 8 mm holes and insert bushing into them. Use the support bracket as a drilling template.

If the pool is fitted with a liner or reinforced membrane, insert the fixed hasp gasket between the plate and the membrane. Use the pozidrive countersunk screws ST 5.5x50 SS A4 supplied for the installation.

Retractable handle of the collapsible hasp

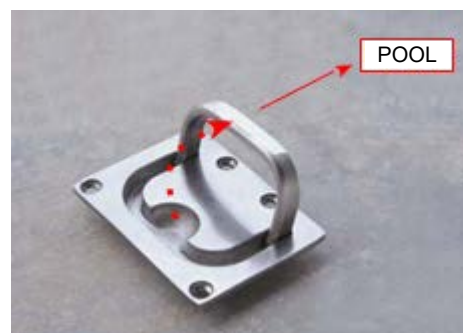
Orient the retractable handle such that it rises towards the pool (see photo).

Recessed installation: Carve out a recess for the collapsible hasp, 80 x 60 mm, depth 10 mm.

The hasp may be partially recessed by creating a recess 65 x 45mm, depth 7 mm.

Drill four holes, Ø 6 mm, using the hasp as a template and insert bushings.

Use the pozidrive countersunk screws, 3.9x38 SS A4 supplied to fasten the hasp in position.



Once the length of the strap has been adjusted

The excess length may be cut off. Leave an extra 15 to 20 cm protruding out from the cam buckle. After cutting the strap, singe the end of the strap slightly to stop it from unravelling.

HIGH LEVEL BEAM AND BRACKET

Product function

Hold and support the duckboarding.

Bear the weight of a person.

Guide the slat apron during opening and closing.

Correct minor masonry flaws.

Compliance with standards

Complies with the standard NF P90-308

Restrictions of use

The pool must comply with the stipulations of the AFNOR AC P90-321 agreement in terms of position tolerance.

The beams and brackets are compatible with Stardeck automatic covers.

The beams and brackets are intended to support standard duckboarding from BWT POOL PRODUCTS:

- Duckboarding 680x500
- Duckboarding 830x500
- Duckboarding 950x500

CAUTION

In the case of a pool fitted with mirror skimmers, the skimmers must be located on the side of the pool opposite the cover axle. Otherwise there is a risk of significant damage.

Safety recommendations and advice

Respect the assembly instructions.

The beams and brackets are designed to bear the weight of a person.

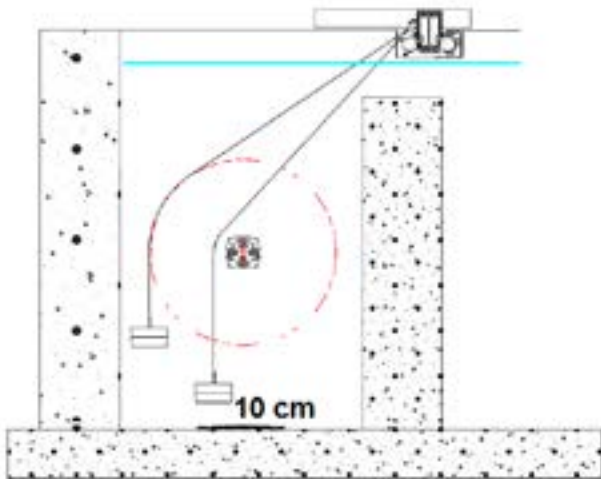
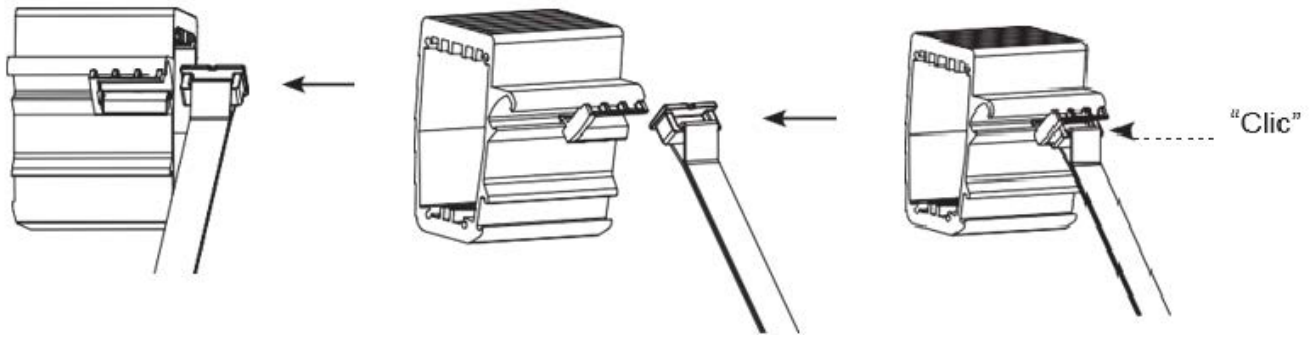
The gaps between the wooden duckboarding modules should be evenly distributed and less than 8 mm, as required by the standard NF P90-308: Safety covers and fastening mechanisms.

1. Beam and counterweight

Place the beam in the beam support units.



Put the counterweights in position on the beam, clipping the straps to the rear of the beam.



Roll the cover apron out over the water and adjust the counterweights so that they sit 10 cm above the pool floor.

Validate this position by rolling the cover up: the counterweight should not touch the cover apron.

2. High water level bracket

Product description

The high water level bracket allows the water line to be raised (50 mm from the top of the pool wall). This system is designed for high water level Stardeck, Stardeck AX-IN, Révodeck and Coverdeck AX-IN automatic cover configurations.

The profile is a finishing trim, it is not designed to bear any kind of weight.

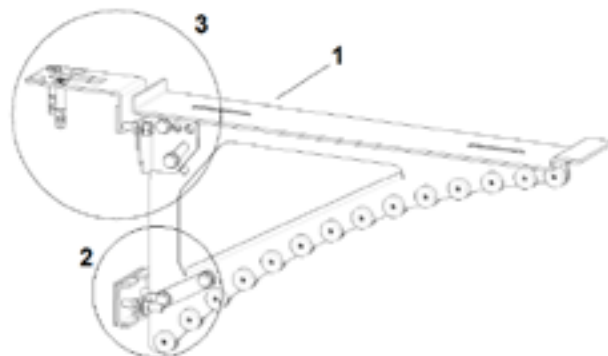
Similarly, do not use the profile as a hand-rail while using the pool.

2.1. Bracket installation instructions

The pool is filled with water, the cover is rolled up, the coping on the opening side are not laid, in the case of a pool fitted with a separating pit wall, the copings along the lengths over a distance of approximately 1.50 m from the cover are not laid.

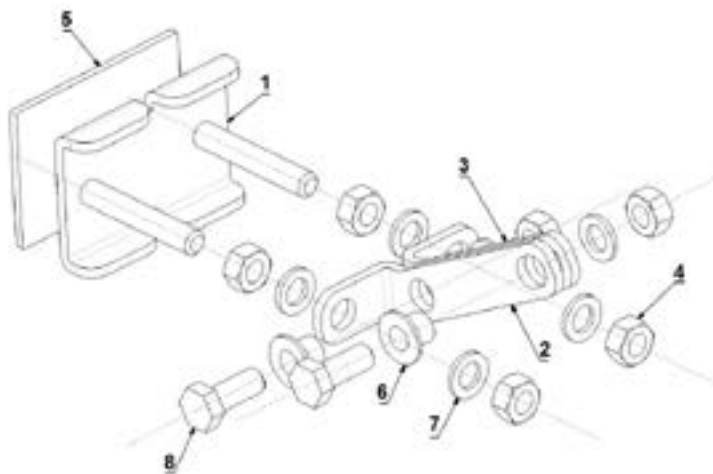
The aesthetic appearance of the duckboarding pontoon is directly determined by the care taken when installing the brackets.

Ref	Description	Qty
1	Bracket	1
2	Wall support	1
3	Sealing plate	1



Wall support assembled in the factory

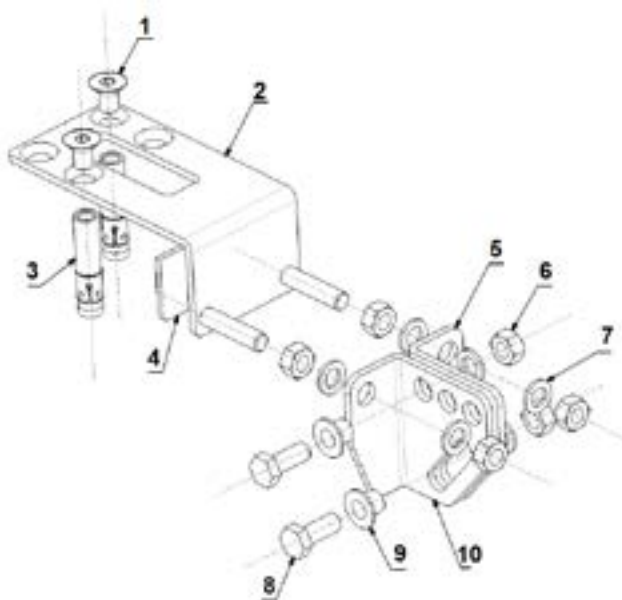
Ref	Description	Qty
1	Adjustable SS wall support	1
2	Lower right-hand linkage	1
3	Lower left-hand linkage	1
4	Nut H M12 brass	6
5	Gasket, 100x70x4	1
6	Bearing, M12 x15 PA6	2
7	Washer M12 SS A4	6
8	Screw H M12x30 SS A4	2



Undo the screws (8) to mount the wall support on the bracket.

Sealing plate assembled in the factory

Ref	Description	Qty
1	Screw H M12x30 SS A4	2
2	Sealing plate*	1
3	UPAT M12x69 A4 bushing	2
4	Gasket 90x49	1
5	Adjustable left-hand linkage	1
6	Nut H M12 brass	6
7	Washer M12 SS A4	6
8	Screw H M12x30 SS A4	2
9	Bearing M12x15 PA6	2
10	Adjustable right-hand linkage	1



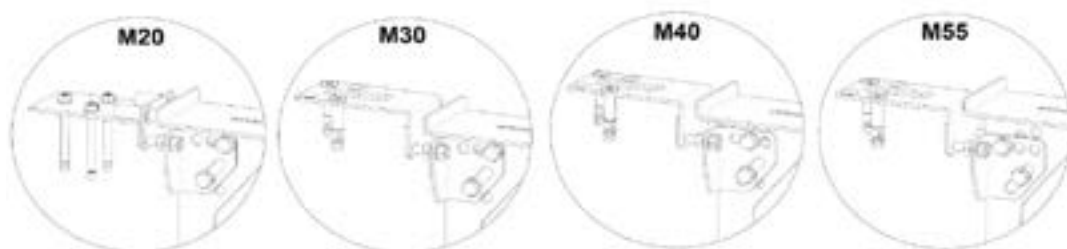
*In the case of coping 20 mm thick, use M20 sealing plates (available as an option, not supplied with the bracket).

Trace the location of the sealing plates according to the bracket installation diagram enclosed that corresponds to your order.

Put the plates in position, ensure that they are level and at the same height.

Counter-drill through the holes in the top portion of the sealing plate using a Ø 16 mm concrete bit for M30/M40/M55 plates and Ø 10 mm for M20 plates. Fix the plates in position and check that they level and at the same height (use wedges if necessary).

Undo the screws (8) to mount the sealing plate on the bracket. Assemble the plate on the bracket according to the height of the coping:



The locking nuts of the foot should be 8 mm from the foot. Tighten the linkages moderately.

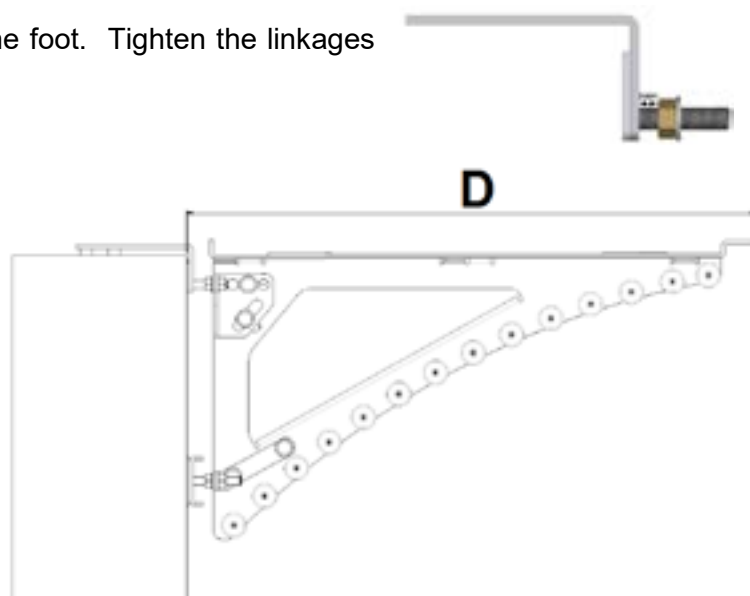
Mounting the brackets

Place the bracket on the plates, against the plastic washers.

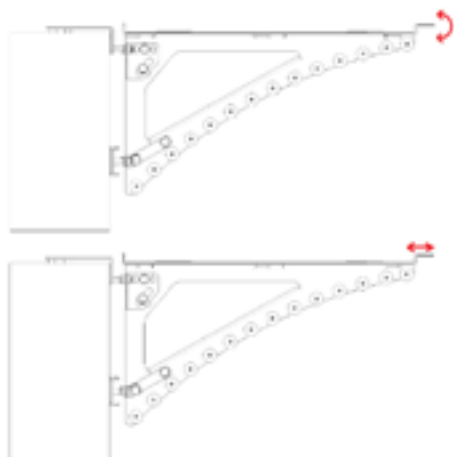
Align the ends of the brackets. So that at least 20 mm of the duckboarding rests on the wall, the distance D between the wall and the end of the bracket furthest from the wall should be:

- 660 mm for 680 duckboarding
- 810 mm for 830 duckboarding
- 930 mm for 950 duckboarding

The weight is borne by the brackets and the wall.



To do this, adjust the top and bottom settings:



Check that the brackets are level, adjust if necessary using the linkages.

Check that all the brackets are parallel, adjust if necessary.

Once adjustments are complete, block the assemblies in position.

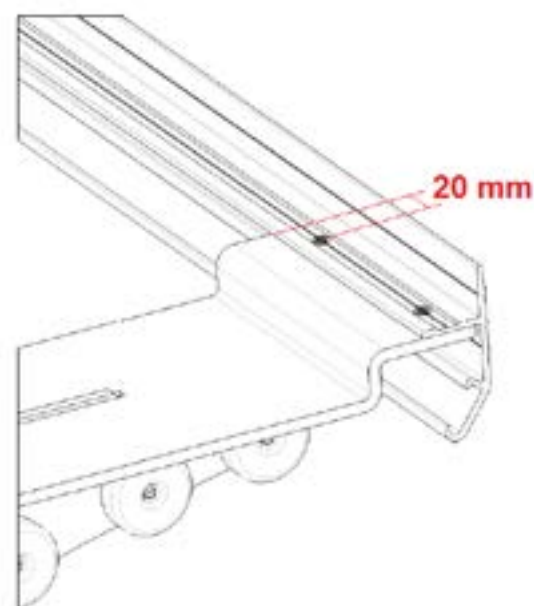
2.2. High water level finishing profile

Put something down (cardboard) between the brackets and the cover apron to catch shavings.

Mount the profiles on the brackets, mark the holes to be drilled (2 holes per bracket) 20 mm from the edge. A 3mm drill bit is supplied to drill the finishing profile and the brackets.

Remove the profile and pierce it ($\varnothing 4\text{mm}$ – drill bit not supplied), then replace it on the brackets.

Attach the profiles to the brackets using 3.5x13 screws (supplied).



2.3. Commissioning and operating instructions

Test opening and closing of the cover to check that there is no friction or catching. Noise could be an indication that profile is badly positioned and/ or that the water level is too high.

Reminder: max 50 mm below the top of the pool wall.

Safety recommendations and advice

Do not install the profile against the liner, always allow a gap (minimum 5 mm) or protection.

3. Installation of the duckboarding

Shape the first duckboarding module to match the curve of the coping (if necessary).

Insert or remove wedges depending on the coping height:

Coping	Wooden duckboarding	PVC duckboarding
M20	Remove the 8 mm wedges present	Not possible
M30	Check that the original 8 mm wedges are present	No wedge
M40	On the wall side, add an additional 8 mm wedge to the original 8 mm wedge	Add an 8 mm wedge on the wall side
M55	On the wall side, add an additional 23 mm wedge to the original 8 mm wedge	Add an 23 mm wedge on the wall side

High water level

Lay the first 1 m wide duckboarding module, check:

- that is covers the first bracket fully,
- that is cover half of the second bracket.

Lay the other 1 m wide coping modules, check:

- that the duckboarding modules come together in the middle of the bracket.

Trim the length of the duckboarding module(s) according to the diagram enclosed, shape the coping to accommodate the duckboarding if necessary, check:

- that the coping modules come together in the middle of the bracket
- that the last duckboarding module fully covers the last bracket.

Standard water level and high water level

Adjust the gaps between the duckboarding modules so that they are equal and less than 8 mm.

OPERATING INSTRUCTIONS

1. Precautions

It is of utmost importance to check that no-one is in the pool before closing the cover. Always keep watch over the pool while the cover is in motion.

To allow for this, and for obvious safety reasons, the key switch must be installed in a location that allows the pool to be kept in view while opening and closing the cover apron. The key switch must be held in position to maintain the cover apron in motion. Never allow children to manipulate the cover, or have access to the key switch.

In any event, swimming under the cover is strictly prohibited.

NOTA BENE: Depending on the flow rate of the filtration pump, the return fittings could generate a strong current on the surface of the pool. If this current could resist closing of the cover, filtration should be stopped during this operation.

2. Cover closing procedure

One person to maintain the cover in motion.

CLOSING the pool: Rolling the cover out from the axle.



The cover may be used in winter couverture as long as the surface of the pool has not frozen.

- It is absolutely vital to check that there is no-one in the pool.
- Check also that there are no floating objects (floats, balls, toys, etc.), that could hinder correct movement of the cover.
- Turn the key switch to the “CLOSED” position and hold it there until the cover reaches its automatic end of travel.
- Always keep watch over the pool while closing the cover. Never stop the cover in an intermediary position, this could entail a risk of a person being trapped against the cover pit if they are swimming in the pool. The person manipulating the cover must ensure beforehand that there is no-one in the pool.
- In the case of an automatic pool cleaner, check that the pool cleaner tubes and/or power cable will not get caught in the cover apron turns as it rolls out.
- In any event, swimming under the cover is strictly prohibited.
- Release the key once the cover stops moving. Remove the key and store it in a place out of the reach of children.
- Attach the straps at the end of the cover to the fasteners along the edge of the pool to secure it in position.

3. Cover opening procedure

The cover should pass over the axle when rolling up.

OPENING the pool: Rolling the cover up around the axle



- Release the cover from the safety fasteners at the end of the pool. **Failure to do will more than likely cause the cover to break.**
- Check that there is no objet on the cover (ball, toy, etc.) that could impede the correct movement of the cover.
- In the case of an automatic pool cleaner, check that the pool cleaner tubes and/or power cable will not get caught in the cover apron turns as it rolls up.
- Turn the key switch to the “OPEN” position and hold it there until the cover reaches its automatic end of travel.
- **Always keep watch over the pool while the cover is in motion.** Never stop the cover in an intermediary position; this could entail a risk of a person being trapped against the cover pit if they are

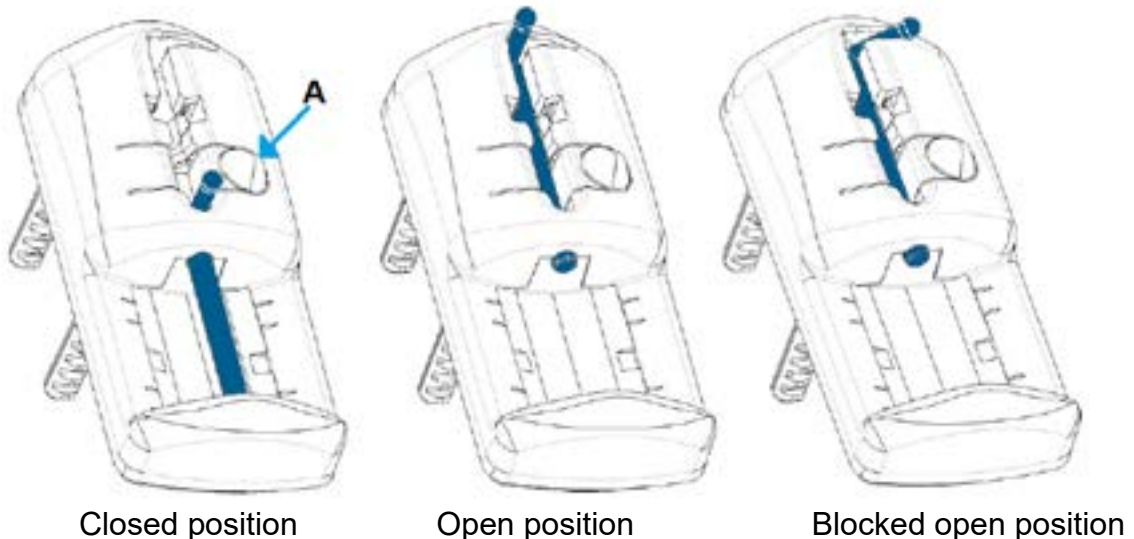
swimming in the pool.

- Release the key once the cover stops moving.
- Remove the key from the lock and store it in a location out of the reach of children.

4. Safety fasteners

4.1. Engaging the cover in the safety fasteners

Once the cover is fully rolled out over the pool, press the button A and push the slide bar up, then push it down through the strap ring. Push the slide bar down fully to ensure that it is locked.



4.2. Releasing the cover from the safety fasteners

Press the button A and push the slide bar up to release the strap ring.

IMPORTANT

The use of safety straps is required by French regulations.
Do not forget to release the straps before rolling the cover up.
Significant damage could result from the failure to do so.

5. Water level

In the case of a submerged automatic cover, the use of a level controller and an overflow are mandatory.

It is essential to check the water level in the pool before operating the automatic cover, bearing in mind that a gap of 30 mm is required between the water level and the beam to allow the cover to move freely.

A water level that is too high, consequence of a blocked/ lack of overflow, can cause the cover apron to become blocked against the beam and stop it from moving properly, this could lead to significant damage to the cover slats and mechanical components.

Never put the cover in motion if the water level is too low, this could cause the cover to become blocked on and then rub against the top of the pit wall, and any abutments or hand-rails.

Lastly, a water level that is too high or too low could modify the open and closed parameters saved when the ends of travel of the reduction motor were initially programmed.

NOTA BENE : The standard NFP90-308, dealing with the design and safety of automatic pool covers, explicitly states that pools fitted with an automatic cover must be equipped with a pit wall (masonry or prefab), that separates the automatic cover rolling pit from the rest of the pool.

6. Water quality

Check the quality of the water before filling the pool, particularly if the water is taken from a well, a lake or a river.

Particular attention should be paid to detecting and reducing abnormally high concentrations of metallic ions: Avoid using water high in Iron, Copper or Manganese, etc., these metals can combine with Hydrogen Sulphide that can be released by decomposing organic or vegetable matter.

This reaction can give rise to the deposition of metal sulphides that can cause staining.

In an event, and in accordance with the standard NF P90-308, the materials used to manufacture the slats comprising the cover aprons were specifically designed not to have a colorimetric reaction on contact with Hydrogen Sulphide.

The T.H. (Total Hardness) is a measure of the hardness of the water, that is the concentration of Calcium and Magnesium in the water, it should be less than 200 ppm.

A higher T.H. will lead to the deposition of limescale on the slats, which are unpleasant to look at and could hinder correct winding of the cover apron.

Furthermore, the user must only use water disinfection chemicals and systems compatible with the material used to manufacture the automatic cover, and should use said in accordance with the instructions provided by the manufacturers of the aforementioned chemicals and /or systems.

For information, the most common average dosages of disinfectant products are listed in the table below:

CHLORINE :	Concentration between 0.7 and 1.2 ppm.	pH between 7.0 and 7.4
PHMB :	Concentration between 30 and 40 ppm.	pH between 7.2 and 7.8
BROMINE :	Concentration between 1 and 2 ppm.	pH between 7.0 and 8.0

7. Maintenance

The cover must be cleaned regularly to avoid any degradation (staining, etc.) of the cover apron slats that could be caused by heavy particles left lying on the cover apron (dead leaves, miscellaneous detritus, metallic objects that could rust, etc.) or by the build up of excessive dirt (limescale, translucent oils, road pollution, etc.) on the cover apron.

The prolonged stagnation of organic or vegetable matter left lying on the cover apron could lead to the appearance of stains of various colours that are sometimes permanent.

Deep cleaning of the cover at least twice a year, on opening and winterizing the pool, is highly recommended.

To clean the cover, use a high pressure jet of warm water and a descaling product.

Use only compatible and recommended products to clean the cover. These cleaning products should under no circumstances be abrasive or PVC solvent based.

Any serious infraction of these basic automatic cover maintenance rules will entail the rejection of any resulting guarantee claim.

List of bi-annual checks:

- The general condition of the cover slats,
- The condition of the safety straps,
- The condition of the straps connecting the axle to the cover,
- The condition of the safety fasteners,
- Check the condition of the wheels and that they are working properly,
- Make sure that the adjustment and support linkages and nuts of the brackets are correctly tightened,
- Check that the wires in the electrical panels are correctly tightened.

8. Winterizing

Frequently, a pool is not used for a several months during the winter period. In the Northern Hemisphere, pools are usually winterized between the 15th of November and the 15th of March of the following year.

While it is winterized, the pool must be protected from dirt by a “net” type winterizing cover that allows precipitation to pass through but protects the slat cover against hail and leaves, or by the WinterClean P-F profile that clips on to the edges at either side of the slats and the first slat of the cover apron to cover the gaps between the pool wall and slats.

Do not use a watertight protective cover that could come into contact with the slat cover apron and instigate the migration of various PVC components used to manufacture the slats.

If there is a risk of freezing, a row of winterizing floats should be placed on the surface of the water in the cover pit (if it is equipped with one) and across the opposite width of the pool.

The cover is rolled out over the surface of the pool and stopped before it reaches the row of winterizing floats.

In the event that the pool water freezes, under no circumstances should any stress loading be placed on the cover apron, nor should any effort be made to operate the cover, at the risk of breaking the slats and causing serious damage to the cover’s mechanical components.

Similarly, never leave the cover rolled up around its axle for the entire winterizing period, this could lead to permanent deformation of the axle. The cover should be rolled up around its axle during periods of snow.

We also highly recommend that you entrust the winterizing of your pool and your automatic cover to a qualified professional, trained in the use of our products.

However, should you decide to winterize your automatic cover your-self, abide by the following recommendations.

- Do not lower the water level in the pool. Rain water will be channelled away through the over-flow.
- Clean the cover using a high pressure jet of water. Repeat this operation when the pool and the automatic cover are put back into operation.
- Vacuum the cover pit or extensions, before winterizing the filtration system.
- Place a row of winterizing floats on the surface of the cover pit or extension, parallel to the pool width, and along the opposite width. The cover is rolled out over the surface of the pool and stopped before it reaches the row of winterizing floats. Protect the skimmers with gizmos,
- Install either a winter cover that is permeable to rain water or WinterClean profiles.
- Protect the wooden duckboarding from the elements with a suitable treatment: Lazure, varnish, paint, linseed oil, etc.
- Cut the power supply to the electrical panel and open the fuse housing.

9. Specific precautions

9.1. Beam and duckboarding

The cover beam and PVC or wooden duckboarding must always be left free of any obstruction, to allow quick and easy access to the cover pit or extension.

The maximum load permitted on duckboarding resting on a beam is 80 Kg/m².

Use of the beam and/ or duckboarding as a diving board or path to enter or exit the pool, or placing of a load heavier than 80 Kg/m² on the beam/ duckboarding assembly, is therefore strictly prohibited.

9.2. Cover apron

The slats comprising the cover apron, irrespective of their colour, must always remain in contact with the pool water in order to sink the heat generated by the slat apron when exposed to sunlight.

Failing this, the cover can overheat, which could lead to the instant and irreversible deformation of the cover slats.

The filtration system of pools fitted with covers equipped with translucent slats, must be left running during times of maximum sun intensity.

In the event that the pool is drained, every precaution must be taken to protect the slats from the sun and/or excessive heat.

9.3. Pit wall

As of the 1st of January 2004, the standard NF P90-308 requires the presence of a pit wall between the pit in which a submerged cover is installed and the rest of the pool.

10. Scope of use

The automatic covers were designed and manufactured for use with family pools. Any other use (public or semi-public pools) must be duly authorised by BWT POOL PRODUCTS.

Despite their excellent mechanical properties, the automatic covers cannot withstand external aggressions.

The following should therefore be avoided:

- Direct contact between the surface of the cover apron and disinfectant products (Chlorine, Bromine, etc.) likely to cause damage such as permanent discolouration, burns, blisters, etc.
- Excessive loads on the cover apron that could deform it.
- Mechanical impacts: blunt objects falling onto the cover apron, the base of a parasol, heavy hail stones, etc.

We recommend that you contact your home insurance provider to make sure that your automatic cover is covered for hail damage.

Furthermore, the leaktightness of the slats comprising the cover apron is key to cover protection. This leaktightness can be compromised by mechanical impacts, hail storms, etc.

Consequently, the leaktightness of the slats must be checked regularly by a responsible adult user and any defects should be repaired immediately.

This list of precautions is not exhaustive and we highly recommend that, in case of doubt, you do nothing without first seeking the advice of the installer, with whom you should remain in frequent contact.

GENERAL GUARANTEE CONDITIONS

You have just purchased a BWT automatic cover, we would like to thank you for placing your trust in us.

By choosing this cover, you judiciously selected a cutting-edge product perfectly adapted to its function as a pool safety cover.

This automatic cover was designed and manufactured in accordance with the stipulations of the French standards in effect and notably the standard NF P90-308 "Protective elements for in-ground, barrier-free, private or collective use swimming pools – Safety covers and securing devices – Safety requirements and test methods"*

*Unless otherwise stipulated in the technical specifications of some models.

Guarantees offered on BWT automatic covers are genuine.

They derive from the commitment of BWT POOL PRODUCTS, designer and manufacturer, whose registered office is situated:

48 rue de Bédée

35137 – PLEUMELEUC - FRANCE

IMPORTANT NOTICE:

- The guarantees set out in the following are extended to professional clients only. End users of the pool may under no circumstances make any claim under this guarantee, as they do not enjoy any contractual relationship with BWT POOL PRODUCTS.
- Hence BWT POOL PRODUCTS and its installer client hereby mutually recognise each other's status as "professionals". Notwithstanding, coverage under these guarantees assumes that the professional client provided its own customer with the "Operating instructions" describing the correct use and maintenance of a BWT automatic cover, and ensured that their customer signed said document.
- All the guarantees described in this document enter into effect on the date of reception of the guarantee slip appended to this document, duly filled out by the installer client, or failing this, after a period of 30 days following the date of delivery of the cover.

1. Guarantee on the slat apron (PVC, PC)

1.1. Guarantee covering slat leak tightness and structural integrity

The slats constituting the BWT cover apron are covered by a 5-year guarantee concerning the leaktightness of the slats, their articulation and their structural integrity over time.

In the event of the partial replacement of the slats constituting a BWT cover, and given the natural, gradual discolouration of said and colour variations from one batch of materials to another, variations in colour between the old slats and the new slats are normal and natural.

The following are outside the scope of this guarantee:

Any damage resulting from the failure to respect the instructions set out in the engineering diagrams or in the cover component installation manual.

Slat covers comprised of polycarbonate slats (PC) installed on cover models that feature above-ground cover storage.

Defects implicating slat leaktightness, in as far as the number of slats concerned does not constitute more than 2 % of the total number of slats comprising the BWT cover slat apron surface area.

The presence of drops of condensation inside the slats, which are not due to a leaktightness defect but rather to the material's natural permeability to steam.

Slat articulation defects, in as far as these are the results of:

- Calcium or Magnesium deposits, these being caused by operating the cover in pool water with a TH above 200 ppm;

- The build-up of dirt on the slat cover (dead leaves, detritus, sand, etc.), due to a lack of regular cleaning of the automatic cover;
- Incorrect setting of the ends of travel that automatically stop the rolling out and rolling up of the automatic cover;
- In the case of system that do not have ends of travel, impacts between the cover apron and the wall opposite the axle due to the user's failure to exercise due care and attention;
- The cover unrolling in the submerged cover pit, as a result of the water level dropping below the top of the separating pit wall (lack of water level regulation or defective water level regulation).

The deformation of the slat apron in pools fitted with hand-rails or abutments, resulting from:

- A thick layer of snow left standing on the surface of the slat apron;
- A sudden, significant drop in the water level, notably in pools that feature hand-rails or abutments.

Damage caused to one or more slats comprising the cover apron following:

- An attempt to open the cover while is closed and fastened in position;
- An attempt to put a cover equipped with a submerged cover pit into motion while the water level was too low (below the top of the separating pit wall) or too high (above the bottom of the beam) due to the absence of a level controller and/or a defective level controller;
- An attempt to repair or modify the cover performed by an unqualified person not an agent of BWT POOL PRODUCTS,
- A tornado, hail storm, falling branches or tiles, etc. said risk being covered by home insurance usually taken out by the user of the cover,
- Slat apron friction.

Deformation and/or blistering of the slats constituting the slat apron, resulting from:

- The presence of a floating object (float, toy, thermometer, floating doser, etc.) under the cover and thus preventing the slats from remaining in contact with the water at this point;
- Storage of a section of the slat apron on the deck surrounding pool exposed to sunlight during assembly or a maintenance operation.

The deformation of the slat apron or slat articulations, resulting from an object (float, toy, thermometer, floating dispenser, etc.) becoming trapped in the cover as it rolls up around the axle.

1.2. Guarantee covering stains and discoloration

BWT covers are also covered by a 5 year guarantee against the risk of the sudden and abnormal discolouration and/ or the appearance of permanent stains on the surface of the slat apron.

However, this guarantee may not be invoked if the surface of the slat apron stained or discoloured accounts for 10% or less than the total surface area of the slat apron.

NOTA BENE: As the slats are formed by the extrusion of pigmented PVC, the gradual discolouration of the slats, caused by oxidation of the pigments by UV rays and/or disinfectants used to treat the pool water, is normal and natural.

In the event of the partial replacement of the slats comprising the BWT slat cover, and bearing in mind the aforementioned gradual discolouration process, colour variations between the old and new slats are normal and natural.

The following are excluded from the scope of the guarantee covering stains and discolouration:

Stains resulting from:

- The use of highly pigmented tanning sun creams (brown stains);
- Fumaroles resulting from the combustion of hydrocarbons (exhaust gases from motorised vehicles, planes flying overhead, fuel fired boilers, etc.);
- Smoke from wood burning chimneys;
- Tannins released by the decomposition of dead leaves.

The discolouration or staining (and deformation) of slats, attributable to the migration of components caused by prolonged contact between the cover apron and other plastic components (winter cover, sheets of PVC or polyethylene, etc.).

Stains attributable to a flagrant lack of regular maintenance/cleaning. The slats must be cleaned thoroughly at least twice a year.

Stains caused by the formation of metallic sulphides, encrusted in the PVC and resulting from the presence of micro-organisms (bacteria, fungi, etc.) and metallic ions present in the pool water or in the PVC material itself. This risk can be precluded by continuously treating the pool water to maintain irreproachable water quality and avoiding the stagnation of decomposing organic matter on the cover.

The slight yellowing of PC slats over time, this is a phenomenon inherent to the material and as such is unavoidable.

2. Guarantee on mechanical parts

2.1. Guarantee covering the motor

The motor drive system equipping BWT covers are protected by a 5 year guarantee concerning the motor's leaktightness and structural integrity over time, subject to the condition that the motor was installed in accordance with the technical recommendations, and operated in accordance with the operating instructions, set out in this manual.

The following are excluded from the scope of the guarantee covering the motor:

Damage resulting from water infiltrating into the motor, due to:

- The installation of the motor in a manner that does not comply with the instructions set out in this manual;
- Partial or full dismantling of the motor;
- Submersion of a motor designed to operate only out of water.

Damage pursuant to failure to respect the electrical standards in effect in the country of installation (the most recent version of the standard NF C 15-100 in France).

Damage to the motor occasioned by lightning strikes or electrical surges, said risk being covered by the home insurance generally taken out by the user of the cover.

Damage attributable to over-loading of the motor due to failure to respect the engineering diagrams or incorrect installation of the cover (friction or abnormal stress loading while rolling the cover out/ up, etc.).

NOTA BENE:

- In the event that the Stardeck cover is installed on a terrain susceptible to flooding, the motor pit must be fitted with a siphon and/or lift pump to avoid any risk of flooding of the motor.
- A Coverdeck cover requires installation of a correctly sized and positioned, properly operational overflow on the pool to avoid submersion of the motor (and damage to the slats due to friction against the bottom of the beam).

2.2. Guarantee on the electrical panel

The electrical panel provided with BWT covers is covered by a 5 year guarantee for correct operation, subject to the conditions that the electrical panel was installed in accordance with the technical recommendations set out in the BWT covers Installation and Operating Instruction Manual, and that it is used in accordance with the aforementioned manual.

The following are excluded from the scope of the guarantee covering electrical panels:

Damage attributable to non-compliance with the electrical standards in effect in the country of installation (the most recent version of the standard NF C 15-100 in France).

Damage to the electrical panel occasioned by lightning or electrical surges, said risk being covered by the house insurance generally taken out by the user of the cover.

Loose electrical contacts, maintenance instructions stipulating a biannual check of this point.

NOTA BENE: It is hereby recalled that BWT automatic cover electrical panel must be installed by a qualified electrician.

2.3. Guarantee covering rechargeable batteries and the solar panel

For the relevant cover models, rechargeable batteries and solar panels of the cover motor power supply are covered by a 2 year guarantee, subject to condition that they were installed in accordance with the technical recommendations, and operated in accordance with the operating instructions, set out in this manual.

The following are excluded from the scope of the guarantee covering solar panels and rechargeable batteries:

Damage resulting from the full discharge of the batteries after they were disconnected from the solar panel, or the continued failure to expose the solar panels to ambient outdoor light.

Damage caused to batteries by submersion.

Damage to the solar panel attributable to a hail storm or branches, tiles, etc. falling onto the solar panel.

2.4. Guarantee covering the axle

The anodised aluminium axle provided with BWT covers is covered by a 5 year guarantee concerning its structural integrity over time subject to the conditions that said axle was installed in accordance with the technical recommendations, and operated in accordance with the operating instructions, set out in this manual.

The following are excluded from the scope of the guarantee covering the axle:

Damage resulting from the use of water treatment systems and/or products incompatible with the materials constituting the BWT cover axle, or occasioned by the use of water treatment systems and/or products other than in compliance with the instructions provided by the manufacturers of the aforementioned systems and products. The user's attention is specifically drawn to the risks of corrosion of the BWT cover axle associated with the presence of salt in the pool water, whether or not said presence is combined with the use of a salt electrolysis system;

Damage caused by excessive dosing of oxidising products (Redox potential above 750 mV);

Damage occasioned by stray current in the water, and associated with micro electrical leaks from some devices, not channelled away by the effective functional earthing of the pool water.

Damage caused by the application of abnormally high stress loading on the axle (bending or deformation).

Damage occasioned by cleaning the axle with an incompatible product (corrosive, abrasive, etc.).

Damage caused by using the automatic cover in a manner that does not comply with the instructions set out in this manual.

2.5. Guarantee covering the beam flange and brackets (for models equipped with said)

The beam flanges and brackets (used to support the beam or duckboarding) supplied with BWT covers are covered by a 5 year guarantee concerning their structural integrity over time, subject to the conditions that said flanges and brackets were installed in accordance with the technical recommendations, and operated in accordance with the operating instructions, set out in this manual.

The following are excluded from the scope of the guarantee covering flanges and brackets:

Damage resulting from the use of water treatment systems and/or products incompatible with the materials constituting the BWT cover end plates, or occasioned by the use of water treatment systems and/or products other than in compliance with the instructions provided by the manufacturers of the aforementioned systems and products. The user's attention is specifically drawn to the risks of corrosion of the BWT cover end plates associated with the presence of salt in the pool water whether or not said presence is combined with the use of a salt electrolysis system;

Damage caused by excessive dosing of oxidising products (Redox potential above 750 mV);

Damage occasioned by stray current in the water, and associated with micro electrical leaks from some devices, not channelled away by the effective functional earthing of the pool water;

Damage occasioned by cleaning the axle with an incompatible product (corrosive, abrasive, etc.);

Damage caused by using the automatic cover in a manner that does not comply with the instructions set out in this manual.

The deposition of ferric oxides on the end plates, resulting from the oxidation of metallic particles present in the pool water that can be removed simply by cleaning is also excluded from the scope of this guarantee.

3. Guarantees covering accessories

3.1. Guarantee on the beam and the finishing trim

The beam and the finishing trim (in the case of covers on pools fitted with high water level skimmers) made of lacquered aluminium are covered by a 5 year guarantee concerning their structural integrity over time, subject to the condition that they were installed in accordance with the technical recommendations, and operated in accordance with the operating instructions, set out in this manual.

NOTA BENE: The beam (or the finishing trim) and the associated duckboarding serve a mainly decorative purpose, in that they hide the mechanical components of the cover from the bathers' view.

Consequently, they should be left free of any loads, in order to allow fast and easy access to the cover or extension pit.

At lengths of over 6.10 metres, the beam must be supported by brackets installed at regular intervals to limit its deformation. The number of brackets required is calculated as follows:

Length of the beam (metres)	Number of brackets to be installed	
	Private pools	Commercial pools
Less than 6.10	0	0
Between 6.10 and 8.09	1	2
Between 8.10 and 10.09	2	4
Between 10.10 and 12.09	3	6

The following are excluded from the scope of the guarantee covering the beam:

Damage resulting from the use of the automatic cover other than in accordance with the prescriptions set out in this manual, and notably:

- Use of the duckboarding as a diving platform;
- Use of the duckboarding as a walkway to enter or leave the pool,
- the application of a load greater than 80 Kg/m² to the duckboarding assembly on pools less than 6.10 m;
- Damage occasioned by the failure to install the correct number of support brackets if the beam is over 6.09 m long or application of a load greater than 80 Kg/m² to the duckboarding/ beam assembly.

Significant accumulations of snow should be removed from the duckboarding.

Damage caused by cleaning the beam and the finishing trim with incompatible products (corrosive, abrasive, etc.) or a high pressure jet (lifting of the lacquered paint).

3.2. Guarantee on the high pressure cleaning system, Cleandeck – Stardeck covers

The high pressure cleaning system installed on Stardeck covers is covered by a 5 year guarantee, except for the booster pump which is covered by a 2 years guarantee.

This guarantee covers the correct operation of the system, notably the booster pump, subject to the condition that said system was installed in accordance with the technical recommendations, and operated in accordance with the operating instructions, set out in this manual.

The following are excluded from the scope of the guarantee covering the high pressure cleaning system:

Damage attributable to non-compliance with the electrical standards in effect in the country of installation (the most recent version of the standard NF C 15-100 in France);

Damage occasioned by lightning, electromagnetic disturbances and over-voltages, said risk being covered by the home insurance usually taken out by the user of the cover;

Damage resulting from the submersion of the booster pump;

Damage caused by water infiltrating into the motor due to a leak at the mechanical seal of the booster pump that was not repaired quickly enough.

NOTA BENE:

- In the event that the Stardeck cover is installed in a location susceptible to flooding, the booster pit absolutely must be fitted with a siphon and a lift pump to protect the pump against flooding.
- It is hereby recalled that the booster pump must be installed by a duly qualified professional.

3.3. Guarantee on duckboarding

The wooden or PVC duckboarding on Stardeck, Coverdeck and Révodeck pools is covered by a 2 year guarantee, concerning the structural integrity of the duckboarding over time, subject to the condition that it was installed in accordance with the technical recommendations, and operated in accordance with the operating instructions, set out in this manual.

NOTA BENE:

Colour variations observed between slats constituting the wooden duckboarding modules are normal and natural.

In the event of the partial replacement of slats constituting a wooden or PVC duckboarding, and given the natural, gradual discolouration of the modules along with colour variations between batches of raw materials (wood or PVC) used.

The following are excluded from the scope of the guarantee covering duckboarding:

Damage resulting from the use of the automatic cover other than in accordance with the instructions set out in the Installation and Operating manual and, notably:

- Use of the duckboarding as a diving platform;
- Use of the duckboarding as a walkway to enter or leave the pool;
- The application of a load greater than 80 Kg/m² to the duckboarding assembly;

Damage caused by falling branches, tiles, etc;

Discolouration, staining, deformation, cracking of the slats constituting the wooden duckboarding modules that may occur over time, wood being a living material, it is not always possible to predict its behaviour when it is exposed to fluctuating temperature, humidity and sunlight;

Stains caused by the decomposition of organic matter or the corrosion of metallic objects left lying on the duckboarding, or by applying any kind of additional covering to the duckboarding (paint, varnish, mat, liner, etc.).

3.4. Guarantee on the storage bench housing of above-ground covers (models that are equipped with above-ground storage benches)

The wooden or PVC housing of storage benches of above-ground covers equipped with said is covered by a 2 year guarantee concerning the structural integrity of the metallic structure as well as the PVC or wooden slats over time, subject to the condition that the housing was installed in accordance with the technical recommendations, and operated in accordance with the operating instructions, set out in this manual.

NOTA BENE:

- The PVC or wooden slats comprising the housing serve a mainly decorative purpose, in that they hide the mechanical components of the cover from the bathers' view, and shelter the slat apron from sunlight.
- Colour variations observed between slats constituting the wooden housing are normal and natural.
- Dismantling, be it partial or total, of the PVC or wooden housing of a cover equipped with a translucent slat apron will entail the cancellation of the guarantee covering the slat apron.
- The maximum load permitted for a cover housing comprised of PVC or wooden slats is 20 Kg/m². Hence, thick blankets of snow that may accumulate on the bench should be removed.

The following are excluded from the scope of the guarantee covering above-ground cover storage bench housing:

Damage resulting from the use of the Thermodeck or Igloo II automatic cover other than as described in the manual and, notably:

- Use of the housing as a diving platform, seat or sunbathing location.
- The application of load heavier than 20 Kg/m².

Damage consecutive to unusual weather events (storms, hail, accumulation of snow, etc.).

Damage caused by falling branches, tiles, etc.

Discolouration, staining, deformation, cracking of the slats constituting the wooden housing that may occur over time. Wood being a living material, it is not always possible to predict its behaviour when it is exposed to fluctuating temperature, humidity and sunlight.

Stains caused by the decomposition of organic matter or the corrosion of metallic objects left lying on the housing, or by applying any kind of additional covering to the housing (paint, varnish, mat, liner, etc.).

3.5. Guarantee on the prefabricated separating pit wall

The elements comprising the prefabricated separating pit wall that may be installed on automatic covers with a submerged cover pit are covered by a 5 year guarantee concerning their structural integrity over time subject to the condition that they were installed in accordance with the technical recommendations, and operated in accordance with the operating instructions, set out in this manual.

The following are excluded from the scope of the guarantee covering the prefabricated pit wall:

Damage resulting from the use of water treatment systems and/ or products incompatible with the materials used to manufacture the components comprising the pit wall, or occasioned by the use of said systems or products other than in compliance with the instructions provided by the manufacturer of the systems and products. The user's attention is specifically drawn to the risks of corrosion of some metallic components of the pit wall associated when salt is present in the pool water, whether or not in combination with the use of a salt electrolysis system.

Mechanical damage (deformation, breakage) of the pit wall attributable to significant stress loading exerted by bathers on the separating pit wall.

Damage resulting from the use of the automatic cover other than in accordance with this manual.

4. Guarantee on pool fittings

Pool fittings (throughwall flanges, bearing sealing units, sub-coping support plates, etc.) equipping BWT covers are covered by a 10 year guarantee, with the exception of the parts ensuring leaktightness at the point where the motor shaft passes through which are covered by a 2 year guarantee, concerning their structural integrity over time. These guarantees are subject to the condition that the fittings were installed in accordance with the technical recommendation set out in the BWT cover engineering diagrams and that they are used in accordance with the instructions set out in this manual.

The following are excluded from the scope of the guarantee covering pool fittings:

Damage to the gaskets of the mechanical seal caused by inserting the motor shaft with the protective pin.

Failure to respect assembly instructions (alignment, etc.) indicated in the engineering diagrams.

5. Other elements not previously mentioned

The elements or sub-assemblies not mentioned in the previous guarantee clauses, and belonging to the nomenclature of BWT covers, are covered by a 2 year guarantee.

The following are excluded from the scope of the guarantee covering such elements and sub-assemblies:

Damage occasioned by installation, use or maintenance other than as described in the BWT cover engineering diagrams and this manual.

Damage consecutive to unusual weather events (storms, hail, tornados, flooding, etc.).

Damage caused by the use of water treatment systems or products incompatible with the materials comprising these elements and sub-assemblies or to the use or operation of said systems and products other than as recommended by their manufacturer.

Damage attributable to water parameters (pH, TH, TAC, metals, etc.) that do not comply with the recommendations set out in this manual.

6. Application of guarantees

The various guarantees extended to BWT covers by BWT POOL PRODUCTS are limited to the replacement or repair of some or all of the equipment recognised as defective.

The following shall under no circumstances be included in the scope of said guarantees:

- The cost of installing and/ or removing all or part of an automatic cover,

- Damages to compensate the temporary loss of enjoyment, irrespective of how the cover is used and the length of time for which it remains out of operation,
- Costs incurred through consequential damages (drainage, products, water, heating, etc.).

In the event that one of the aforementioned guarantees is invoked, all steps must be immediately taken to allow BWT POOL PRODUCTS technicians to identify the BWT cover and determine the cause of the damage.

Should a BWT POOL PRODUCTS technician intervene on site, at the request of the installer client, and it is discovered that there are no grounds for a claim under the aforementioned guarantees, we reserve the right to invoice a call out charge.

NOTA BENE: The application of some or all of the guarantees hereinafter shall, under no circumstances, prolong the duration of the aforementioned guarantees.

Claims may only be made on the grounds of these guarantees (reminder):

- If the BWT cover was transported and stored in its original packaging, out of sunlight and away from any heat sources and under the standard conditions set out in this manual.
- If civil engineering works and finishings (corners, coping, pool fittings, over-flow, automatic level regulation, etc.) were carried out in accordance with the Preparation for Civil Engineering and the rules of the art.
- If the cover was installed in accordance with this manual.
- If the service life and characteristics of the PVC slats have not compromised by mechanical or chemical attack attributable to usage or an environment containing materials incompatible with PolyVinyl Chloride based components.
- If the slats of translucent covers have never been exposed to sunlight without being in contact with the pool water.
- If the conditions governing usage of BWT automatic covers, as set out in this manual have been scrupulously adhered to.
- If the installer of the BWT cover returned the duly completed and signed guarantee slip appended to this document to BWT POOL PRODUCTS within a maximum of 30 days as of the date on which the cover was delivered.

More generally, any damage occasioned to the BWT automatic cover attributable to the use of said, other than in the context for which it was designed and manufactured, will not be accepted as grounds for a claim under these guarantees.

Last updated: July 2020

Notes

Notes

GUARANTEE SLIP

Automatic covers

To be returned to your BWT POOL PRODUCTS agency

Cover installation date: / /

Cover installed by

Name/ Corporate name:

Address:

Post code:

City:

Telephone:

e-mail:

Installer's signature and stamp:

Cover user

Name:

Address:

Post code:

City:

Telephone:

e-mail:

User's signature (after having received the operating instruction that must be provided to the user by the installer)

