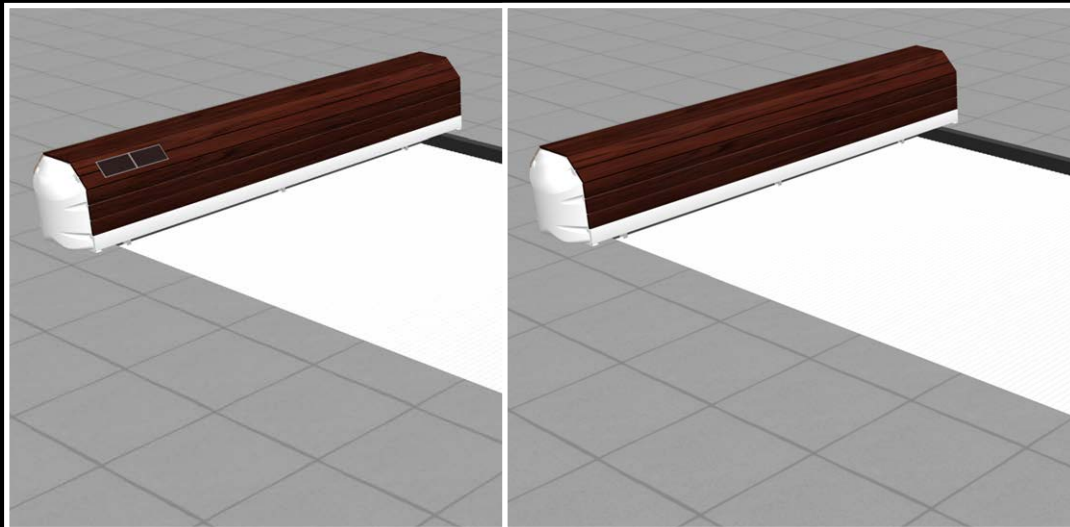


AUTOMATIC ABOVE-GROUND COVER

RollOver



TECHNICAL INSTRUCTIONS

Installation / Use / Cleaning / Maintenance / Safety advice

DEL 
Comfort



**THIS NOTICE MUST BE GIVEN TO THE POOL OWNER
PLEASE READ CAREFULLY AND KEEP IN A SAFE PLACE**

PARTS INCLUDED IN THE DELIVERY











Roll-Over (1 box)

Version électrique
le sachet de pièces détachées,
se trouvent dans le caisson côté
moteur

Version solaire
les batteries,
le chargeur batterie et
le sachet de pièces détachées,
se trouvent dans le caisson
côté moteur



Manual
handle

 20,3 Ah 12V Battery	x1  Battery charger	x1  Tubular motor	OPTION x1  Wi-key	Sleeve Ø12 x4		White cap  x1	Allen key n°4 x1		
				Screw M10x60 x4		Washer M10 x4		Key (for automatic stops) x1	
Spare parts bag									




2



Slats (model, colour and number of boxes according to your order)



OPTION - Safety locking kit
"according to your order" (1 box)

 Quick-Lock	 Strap locking kit	 Push-lock
--	---	---

*3 fitting models : surface mounted -
Insert mounted - Hanging mounted*

PACKING LIST

example - for a 5 x 10 m pool with Ø3 m step unit

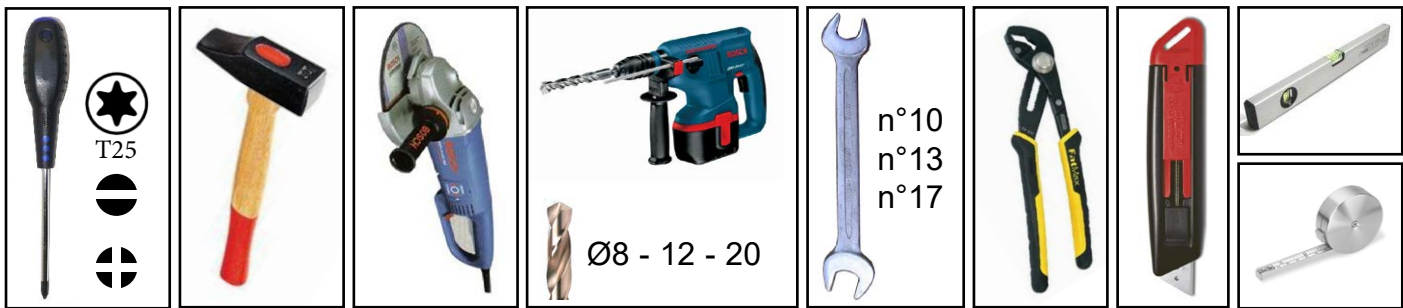
Roll-Over Carrare : 1 box of 0.80 x 0.80 x 5.65 --- 165 Kg

Roll-Over Premium : 1 box of 0.80 x 0.80 x 5.65 --- 300 Kg



Slats : 5 box of 5 x 0.25 x 0.20 m --- 250 Kg

NECESSARY TOOLS - (INSTALLATION - 2 PERSONS)



INFORMATION

For pools up to 6 x 14 m + Ø4 m step unit

The motor is located in the tube and must be installed on the support.

The power supply is either:

solar Version: 2 batteries.

They are charged by photovoltaic panels.

Electric version: by an electrical box located in a technical room

Le réglage des fins de course se fait directement sur le moteur.

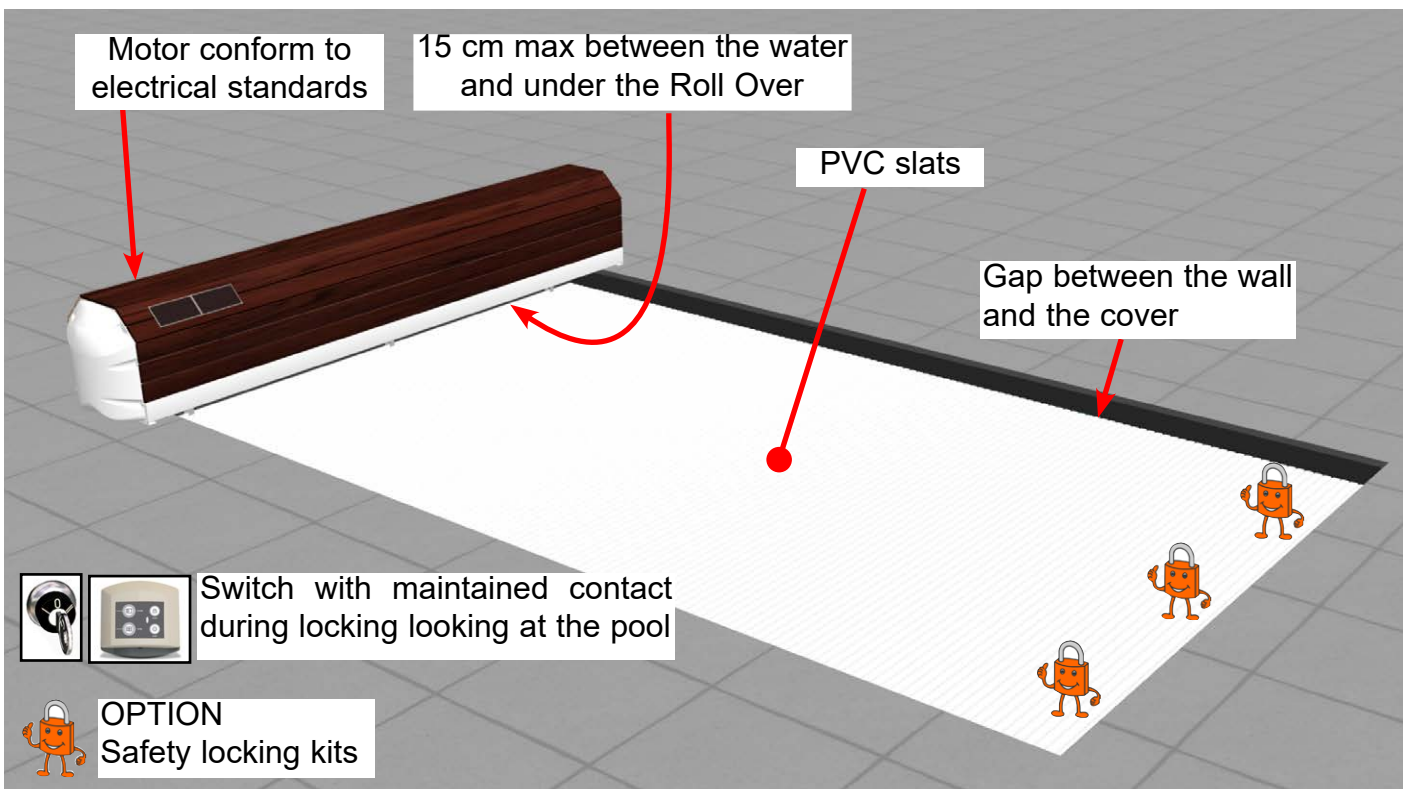
Automatic stops are adjusted directly on the motor.

A torque limiter device protects the system in case of any excessive resistance to the covers operation.

The cover is made of watertight PVC slats that float on the water.



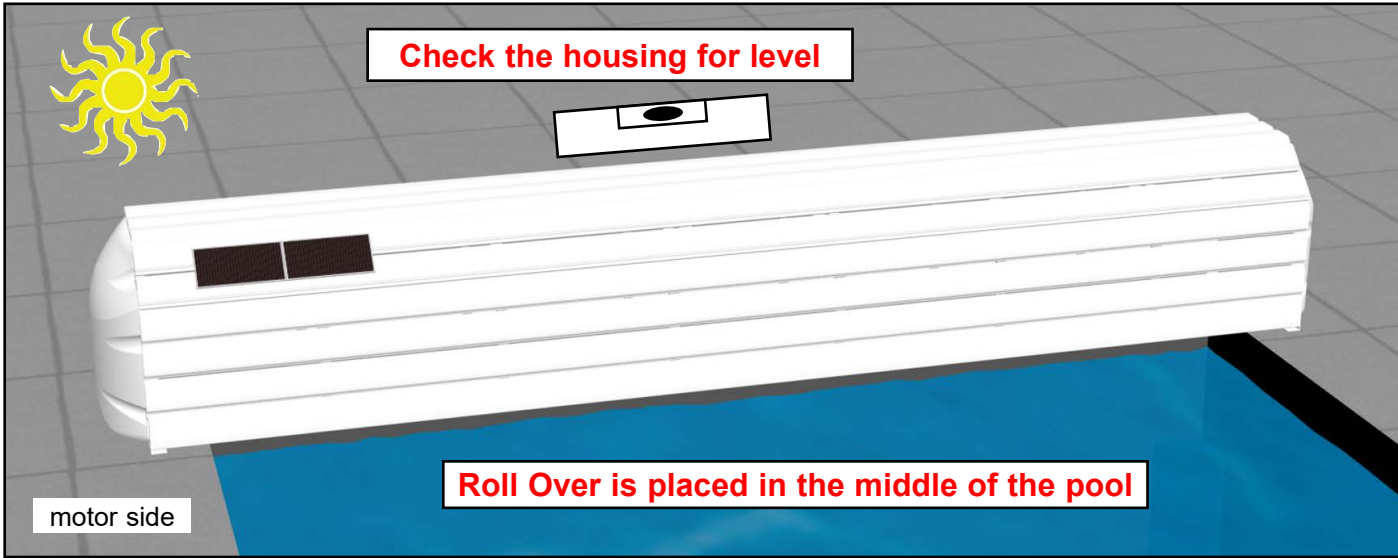
THE ABOVE GROUND COVER



LOCATE THE ROLLER HOUSING

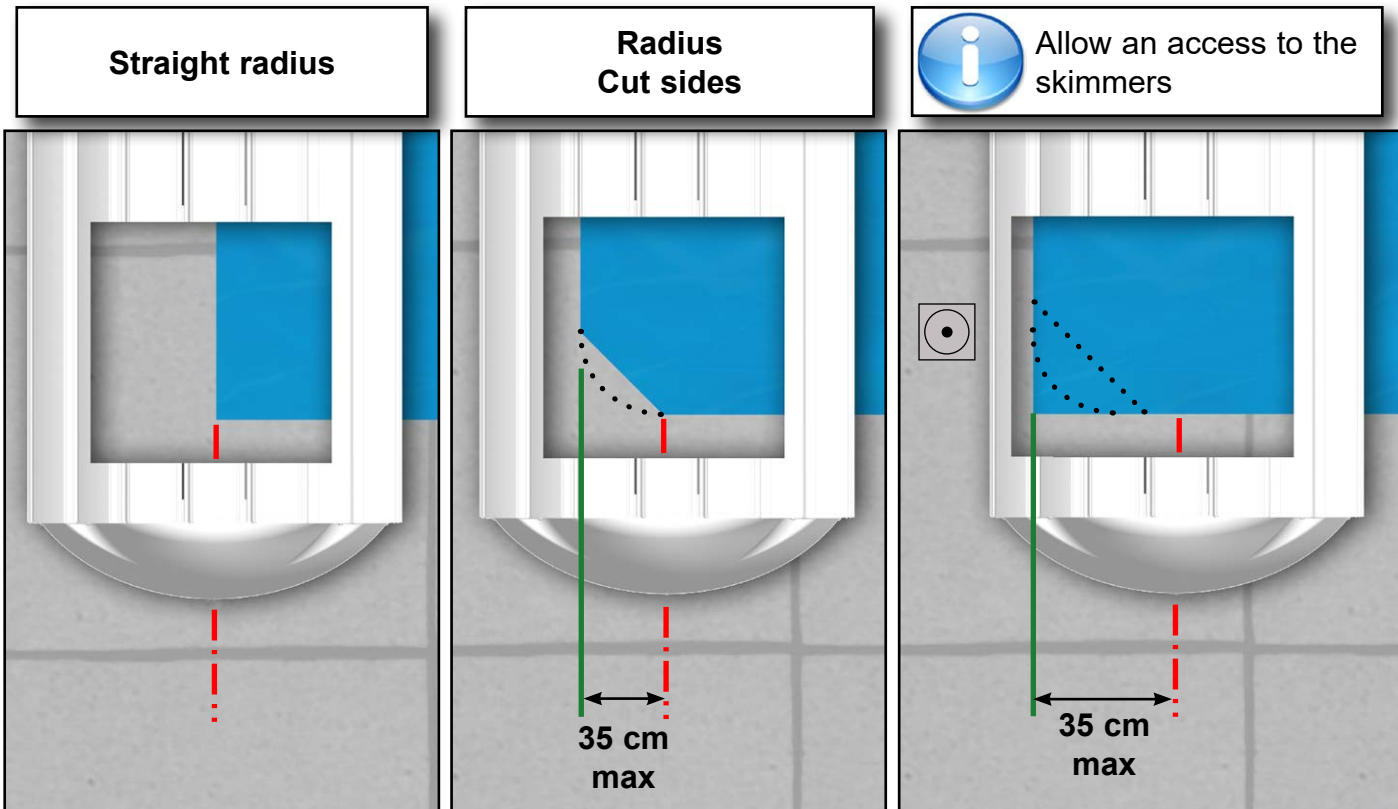
Locate the motor side support as per your order.

The support with the solar panels should be installed on the side of the pool where the amount of direct light is greatest.

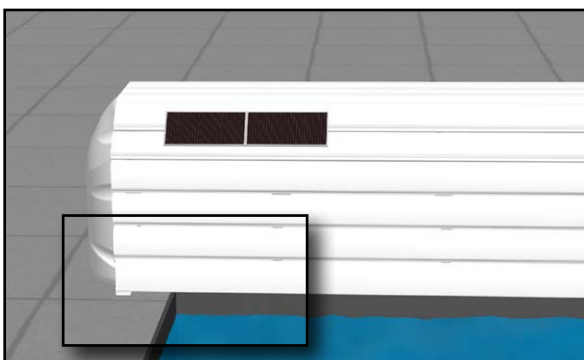


Tube adjustment

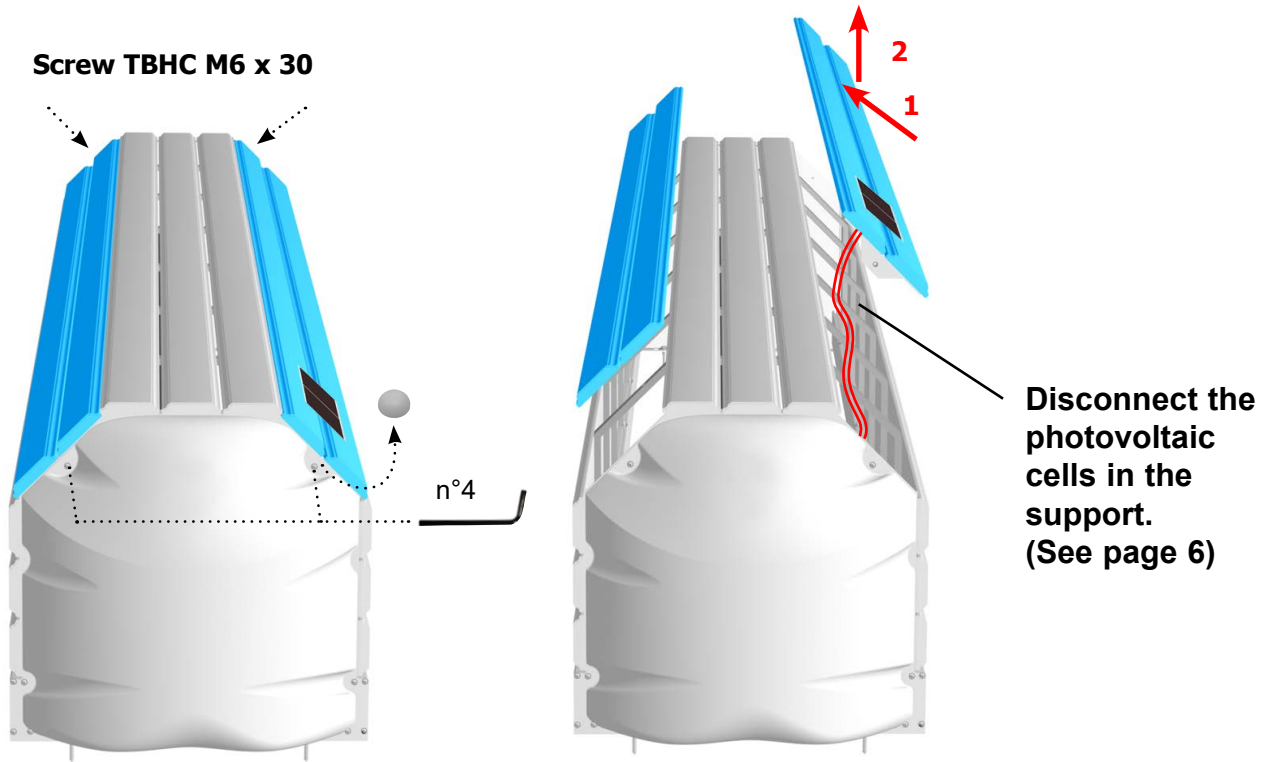
4



WATER LEVEL REQUIRED



HOW TO TAKE OFF BENCH SLATS



SETTLEMENT

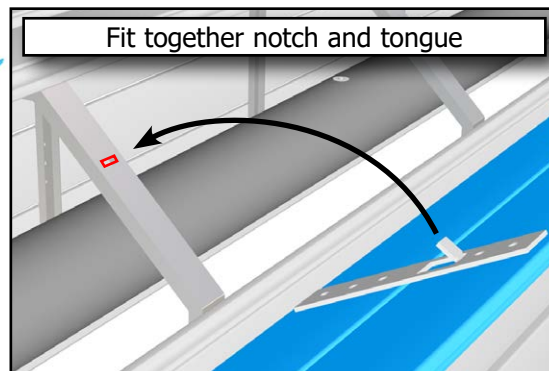
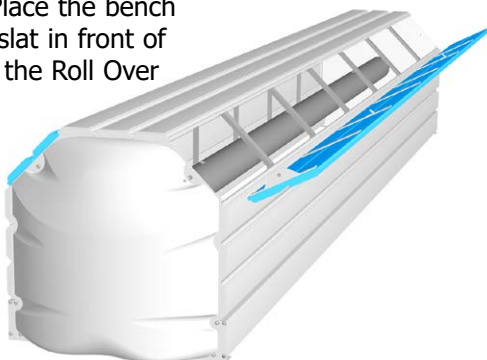


Sleeve Ø12

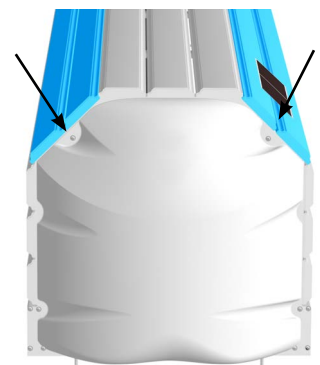


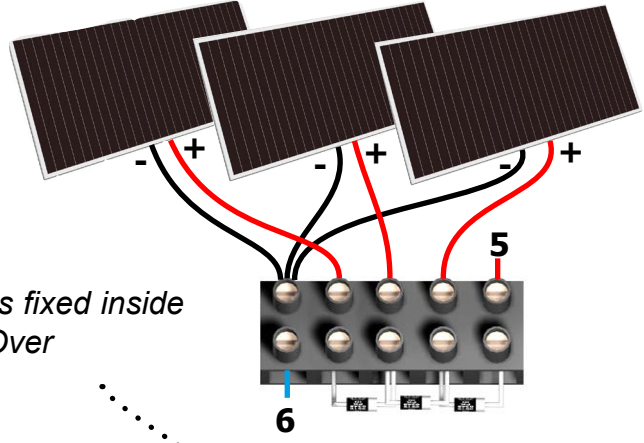
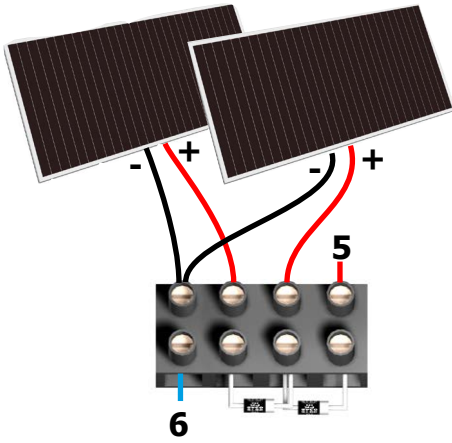
HOW TO RE-FIX ON BENCH SLATS

Place the bench slat in front of the Roll Over



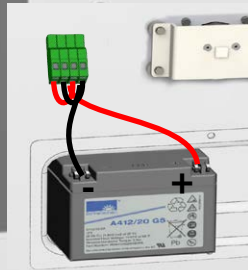
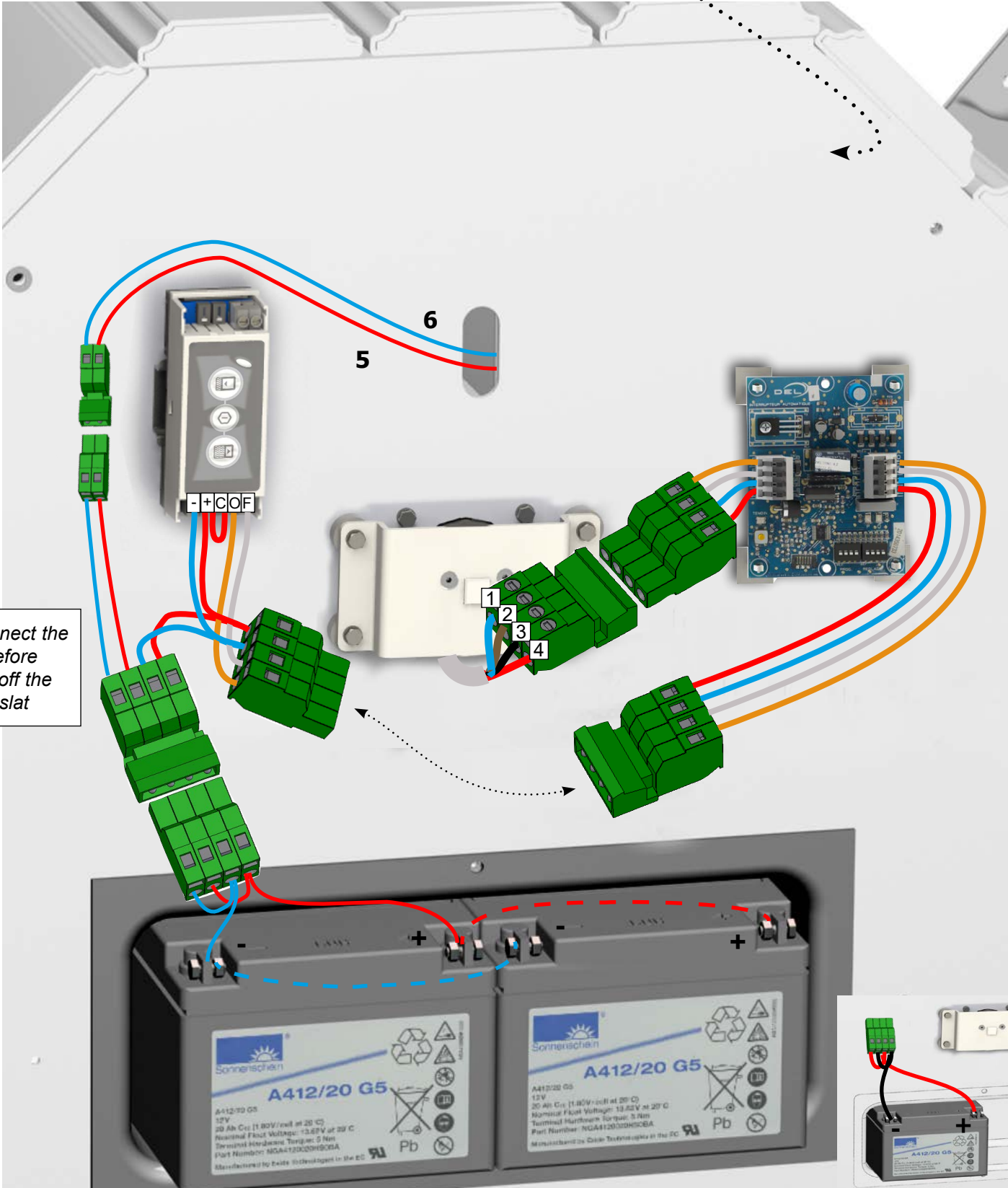
Screw TBHC M6 x 30
+ washer
+ cap





The captor's plug is fixed inside the Roll Over

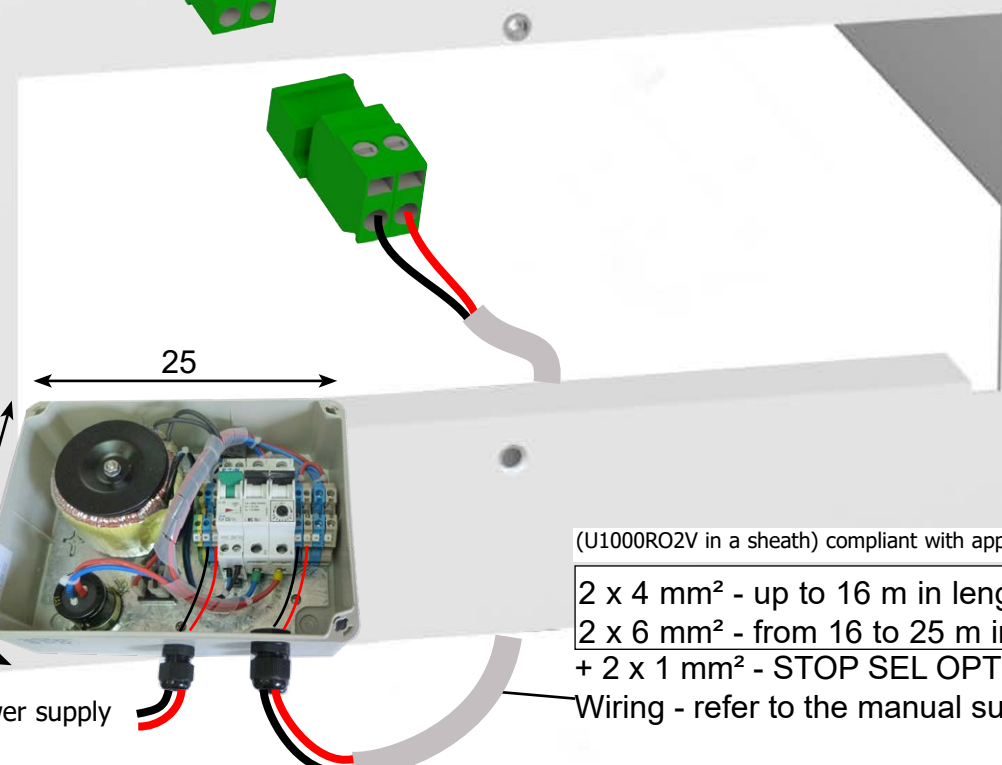
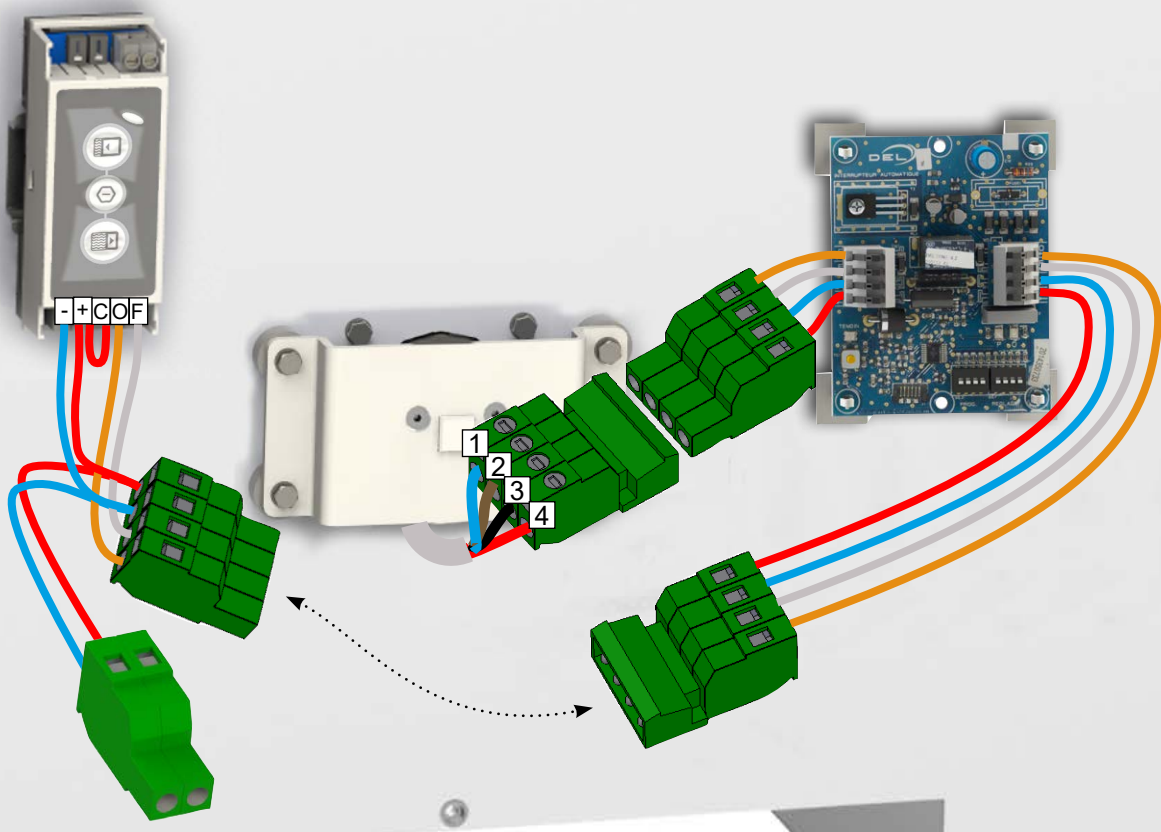
6



WIRING - ELECTRIC VERSION - WI-KEY

Installation

The electric control box must be fitted in a dry room.
The installation must comply with the NF C15-100 standard. et CEI 60364 (Last applicable version) ask your electrician for advice or contact your electricity provider.
All our control boxes use a 230 Volt single phase (50Hz) power supply.
The required power at the input terminals is 0.15 Kw.
Upstream from the control box a suitably sized circuit breaker with a 30 mA ground fault device must be provided.

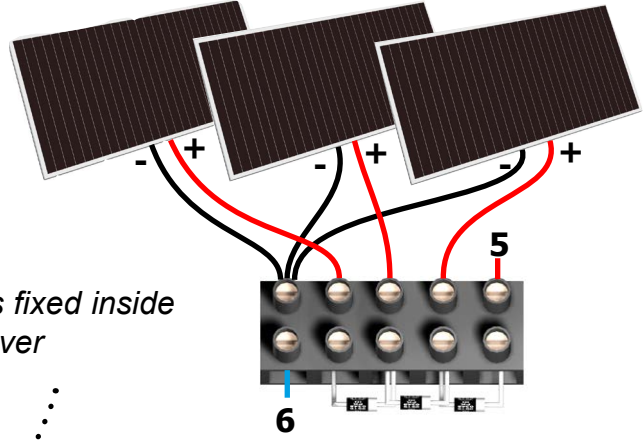
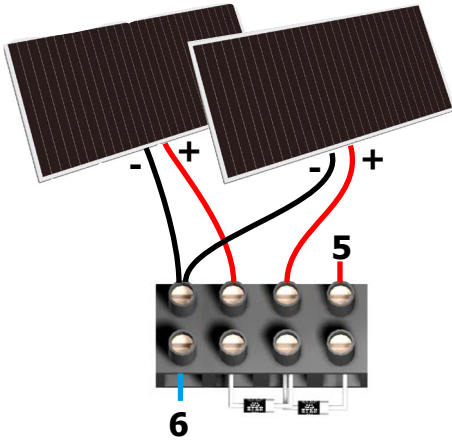


(U1000R02V in a sheath) compliant with applicable standards

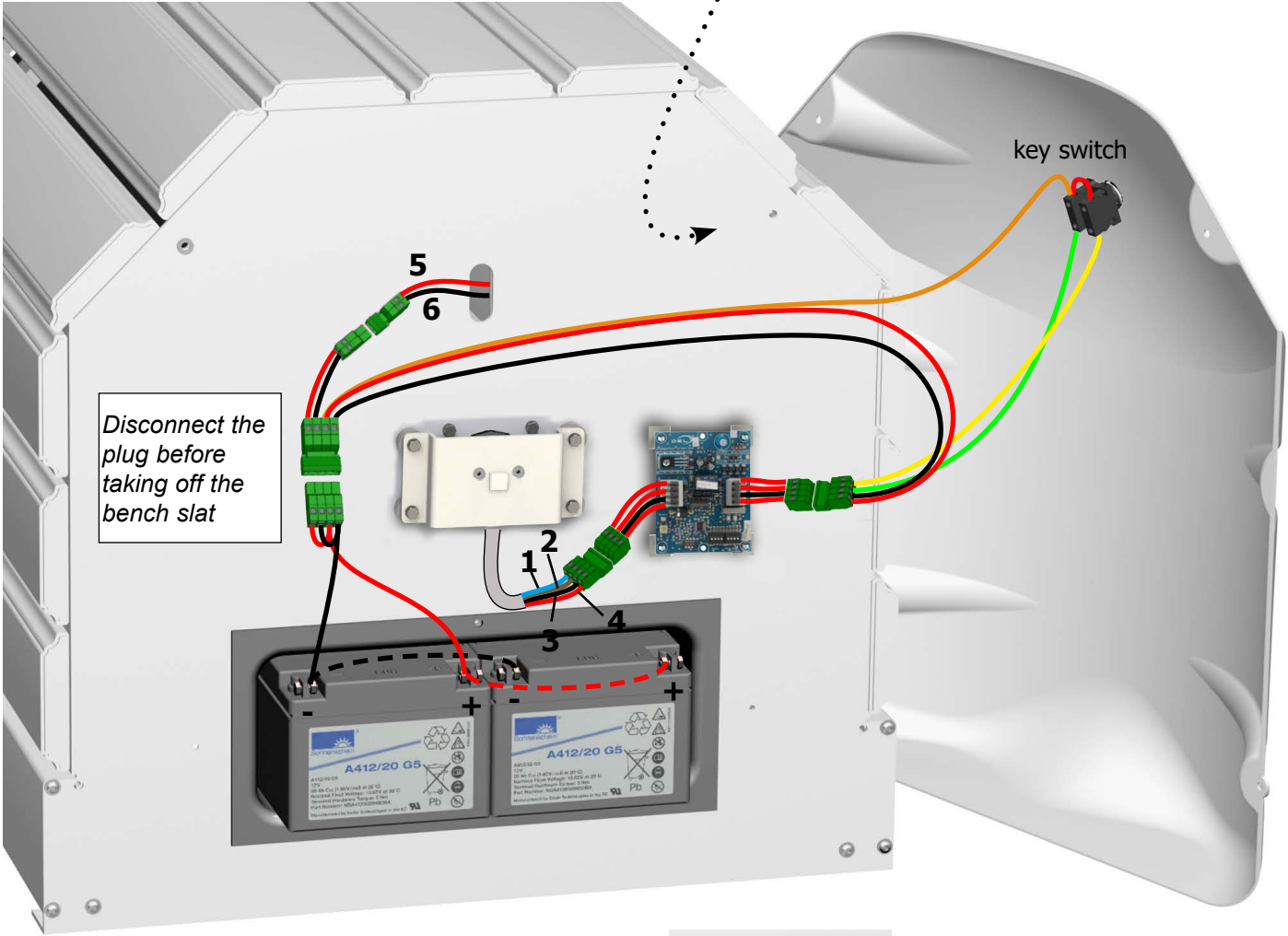
2 x 4 mm² - up to 16 m in length.
2 x 6 mm² - from 16 to 25 m in length.
+ 2 x 1 mm² - STOP SEL OPTION

230 V Power supply

Wiring - refer to the manual supplied with the product



The captor's plug is fixed inside the Roll Over



Disconnect the plug before taking off the bench slat



WIRING - ELECTRIC VERSION - KEY SWITCH

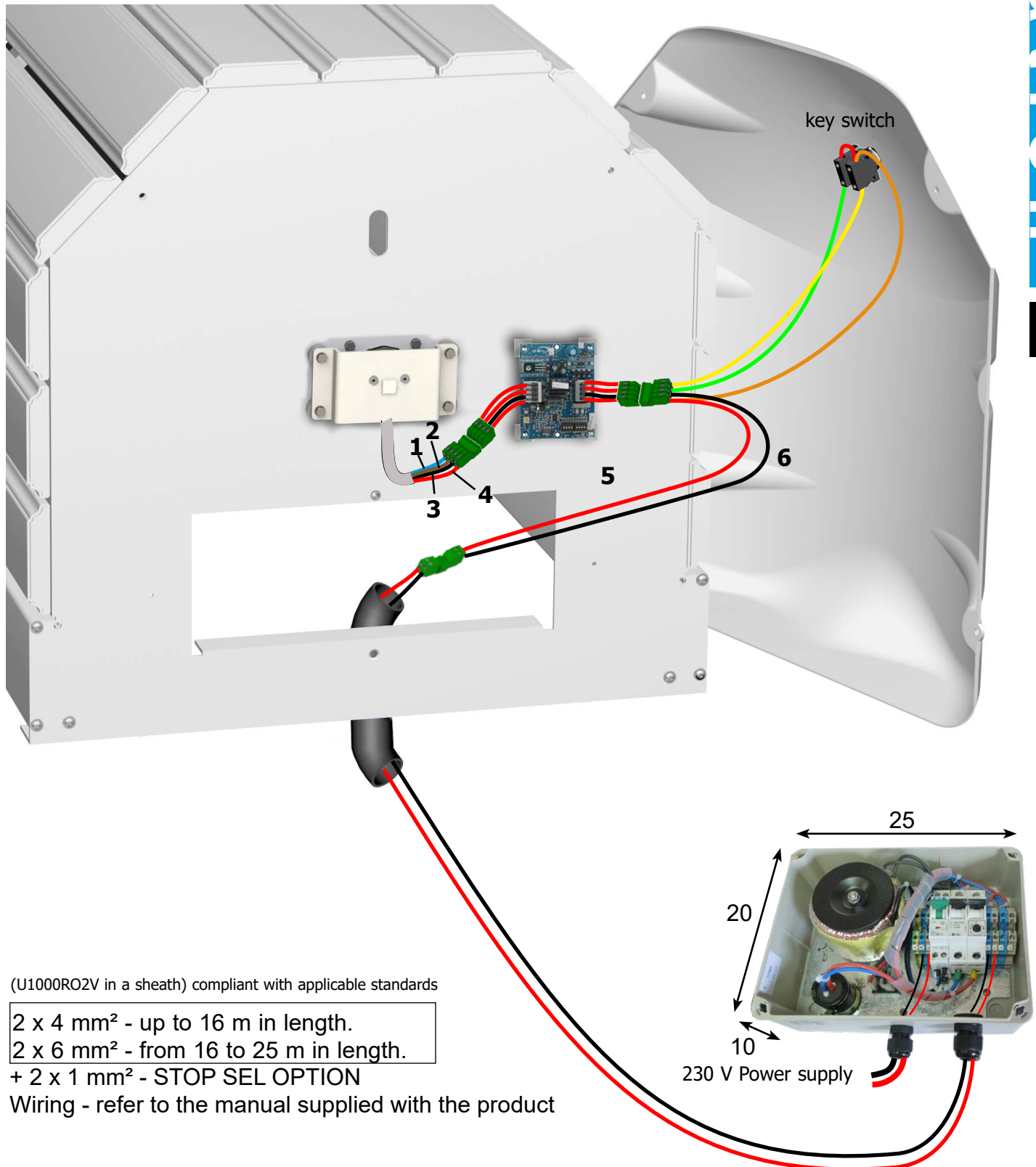
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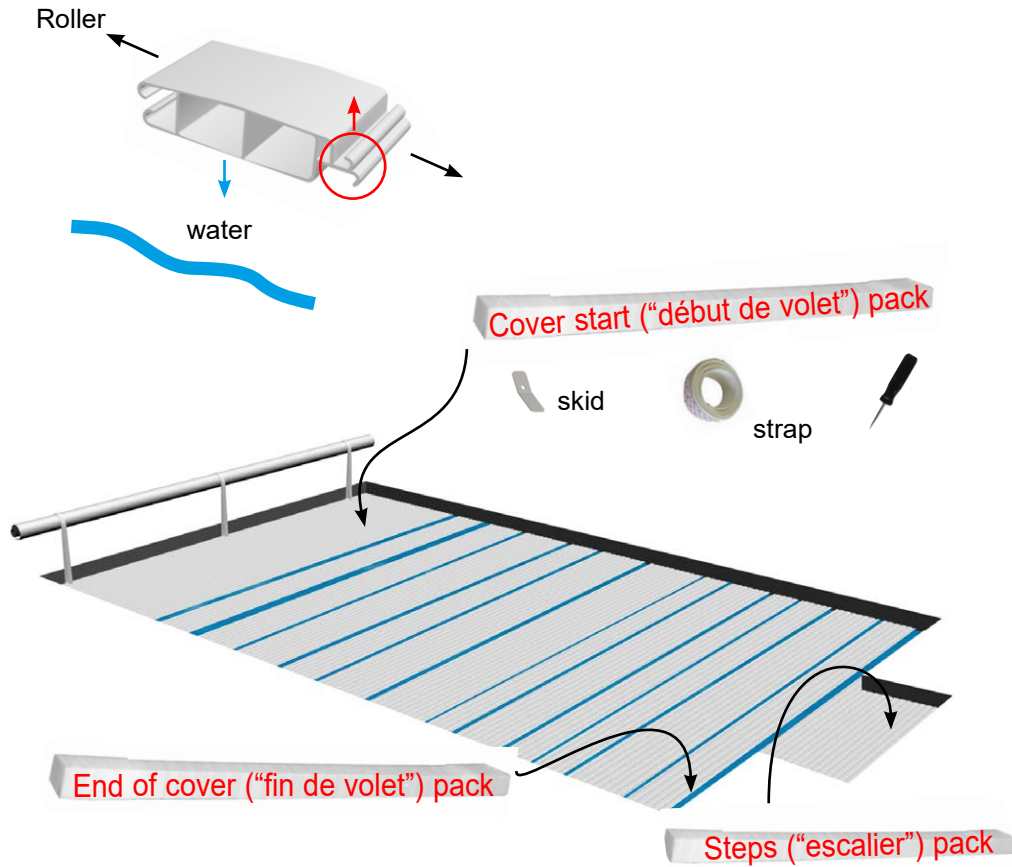
(U1000R02V in a sheath) compliant with applicable standards

2 x 4 mm² - up to 16 m in length.
2 x 6 mm² - from 16 to 25 m in length.
+ 2 x 1 mm² - STOP SEL OPTION

Wiring - refer to the manual supplied with the product

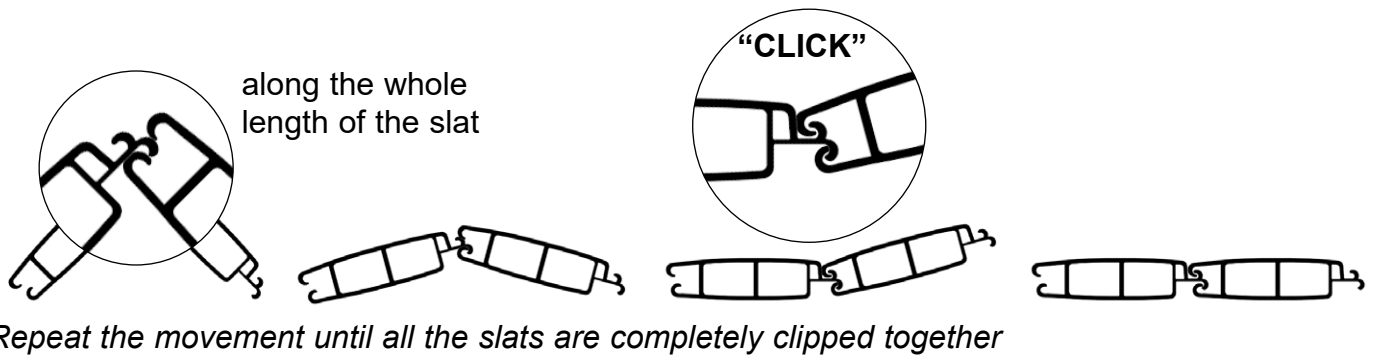
COVER INSTALLATION

Make sure the slats are in the right direction

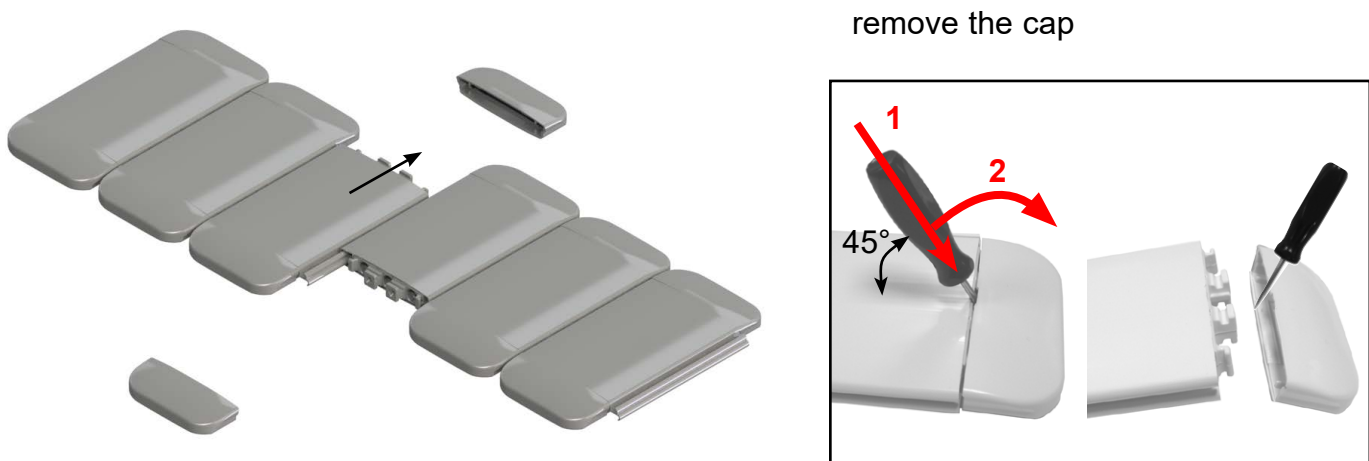


Slat assembly

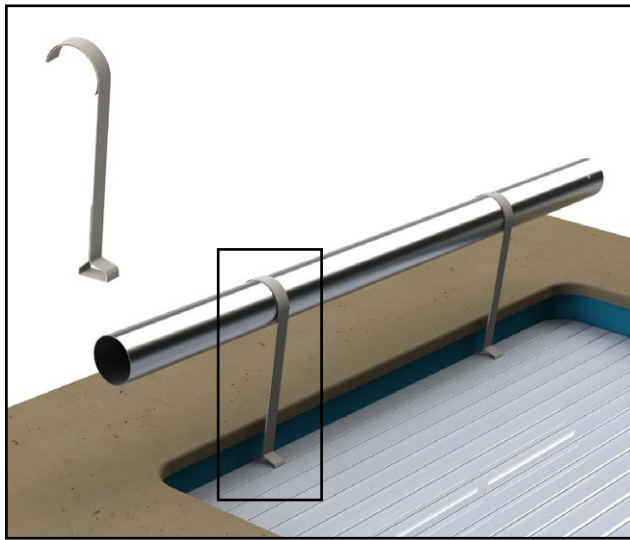
By clipping



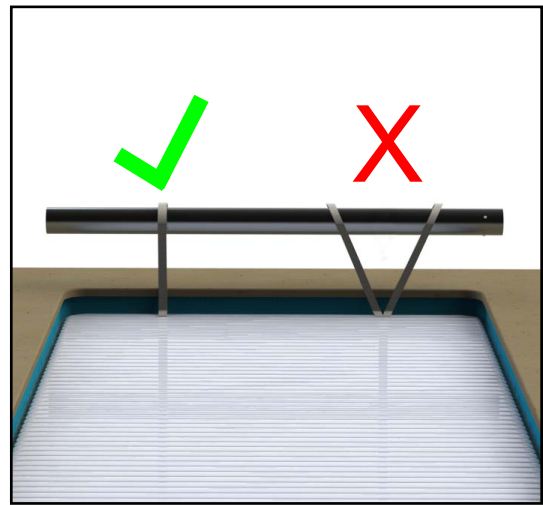
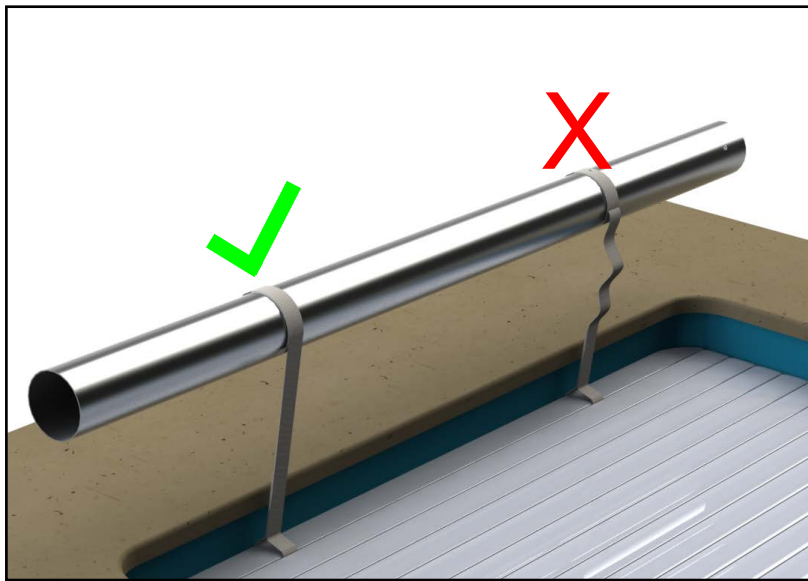
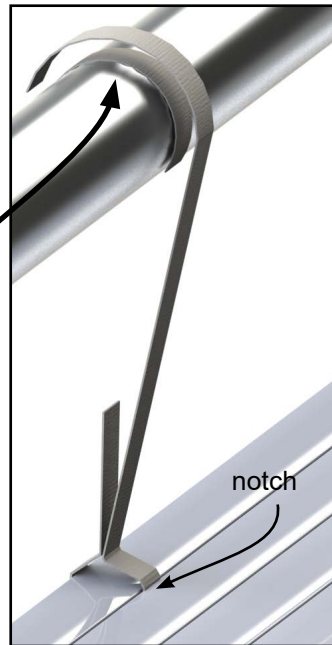
By sliding



Assembly of the strap between the cover and the tube



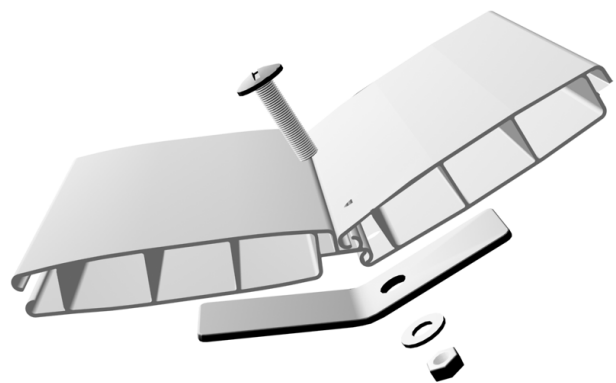
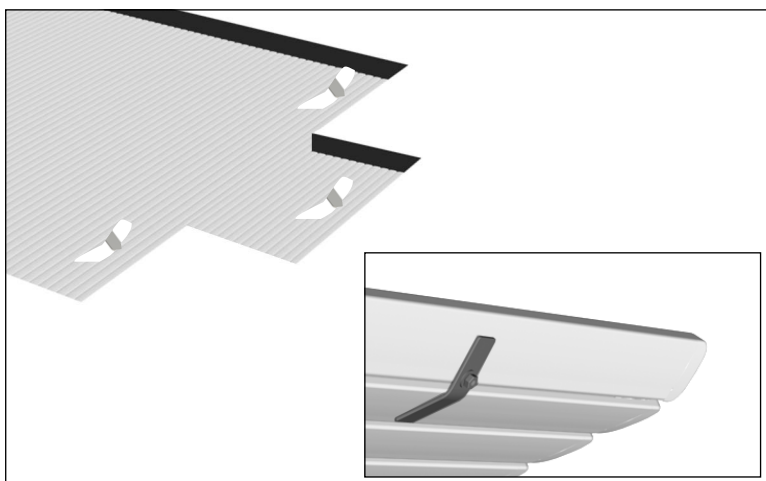
The surface to be glued must be clean and dry



skid assembly



The skids are used to orient the cover at the start of closure. The holes are drilled at the factory.



WI-KEY INSTALLING THE CONTROL BOX



red / green flashing = emitter locked
 Emitter unlocking procedure see «page 21»

The emitter must be located outside volume 0.

The distance between the emitter and the receiver must not exceed:

- 50 m in an obstacle-free zone.
- 25 m behind a basic wall.
- 15 m behind several walls or an especially thick wall.

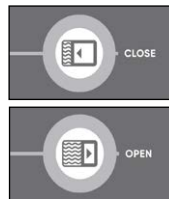
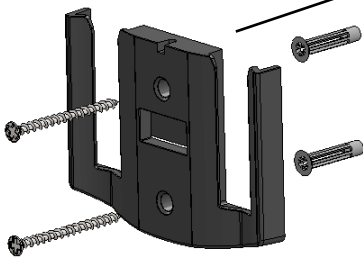
We recommend checking emitter/receiver communication before fixing permanently.



- It must be located in a place from which it is possible to check that no one enters the pool during the manoeuvre.
- It is mandatory to install the locking «strip».
- Before fixing the control box, check that the emitter is communicating with the receiver.

”if the motor does not run => check the power supply polarity

The support must be attached to a fixed support



Closing

Opening



Keyboard lock



Stops the current action

Checking the order logic



Pool closure



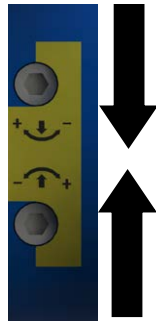
If the command logic is not correct, reverse wires 1 and 2 on the motor output. (see wiring diagram)



Pool opening



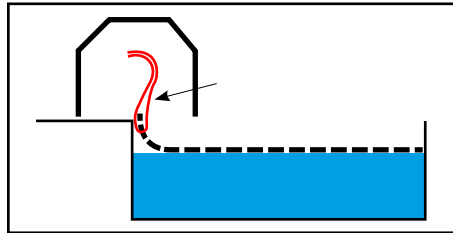
Adjustment



The arrows indicate the cover's direction of movement

Turning in the +, direction will increase the extension of the cover

Turning in the -, direction will reduce the extension of the cover



ADJUSTING THE AUTOMATIC SWITCH

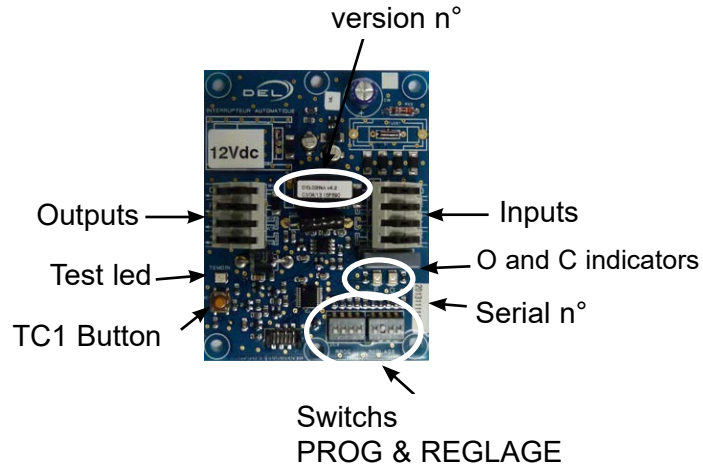
INFORMATIONS

The automatic switch protects the system in case locking kits are unreleased when opening the pool.

If the cover jams, the motor is shut down automatically.

Different cases of jamming:

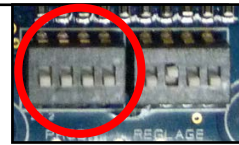
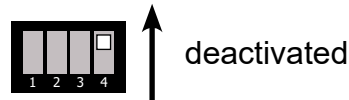
- Unreleased safety locking kit.
 - cover rubbing (on the beam, coping stone...)
 - Object in the pool jamming the cover (cleaner, counter-weight ...).



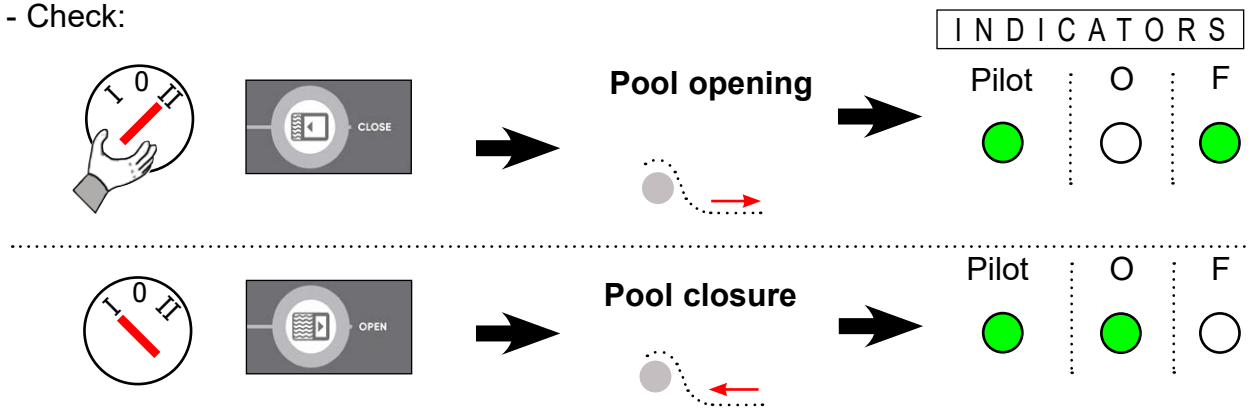
14

Check the order logic

- Deactivate the automatic switch



- Check:



If the command logic is not correct, check the installation wiring.

Setting control duration

L = pool length steps included

$L \leq 12$ m

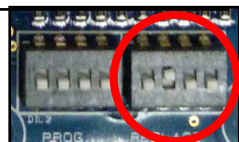


30 seconds

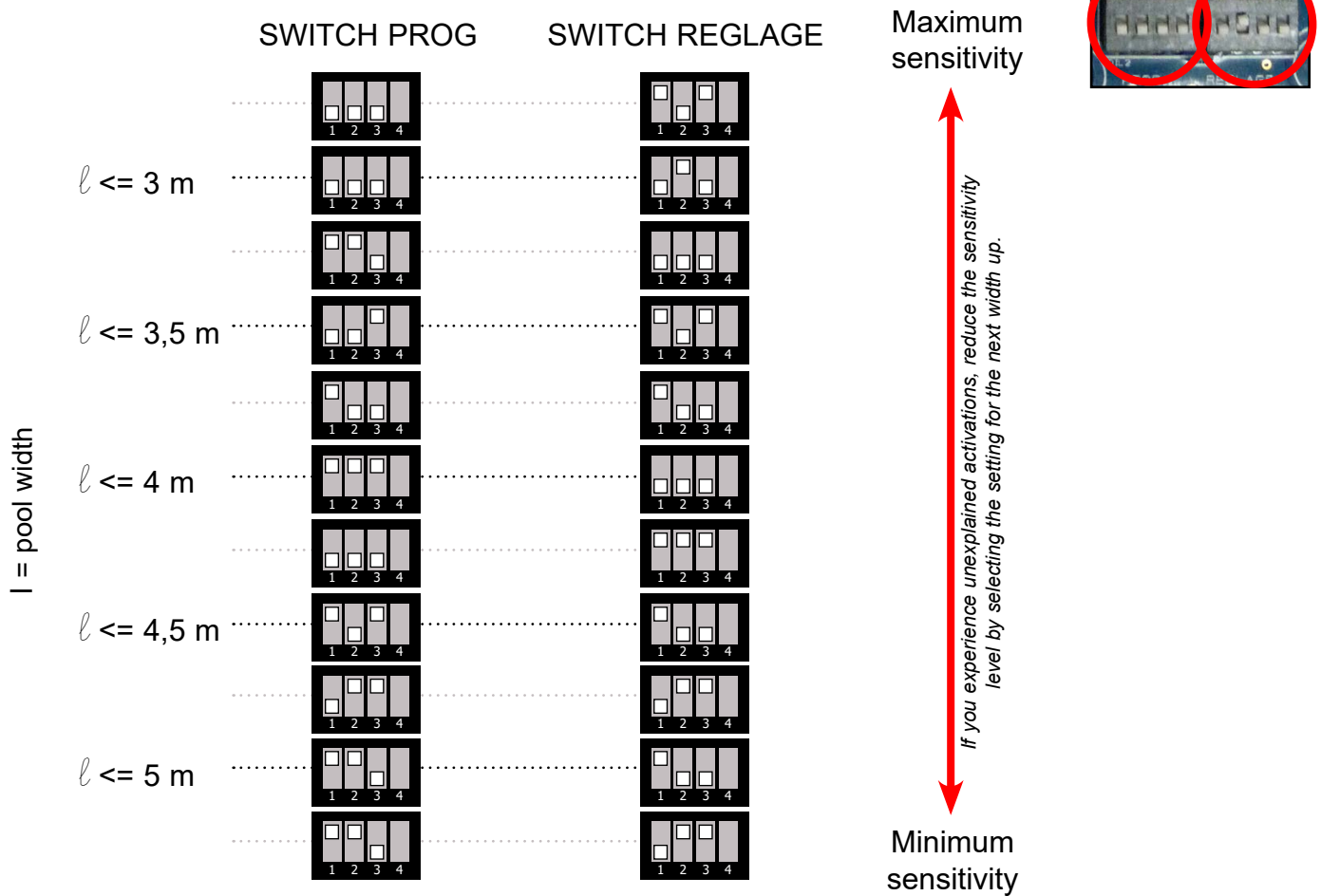
$L > 12$ m



60 seconds



Adjusting the trigger sensitivity



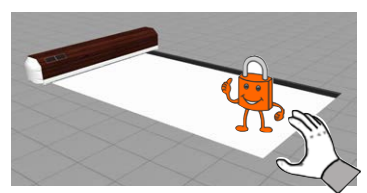
Activating the automatic switch

activated

Failure to activate the automatic switch can cause serious damage to the motor, the control box, the slats and void the warranty.

Test

A - Block the cover by hand or with the fixture kits and keep the pool in sight when opening the cover.
=> The motor is automatically stopped.
 (If necessary adjust the sensitivity of the switch activation)



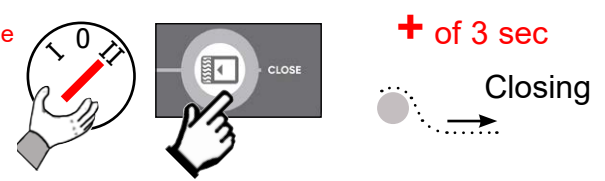
If there are unplanned activations, reduce the sensitivity level by selecting the setting for the next bigger width.

card activated	Test		O	F
	Opening, control in progress			
Opening without control				
Closure				
Protection ON				

To know

- The automatic cover stops during the pool opening:
- 1 - Stop due to a real blocking: unlocking of locking kit oversight or other...
 - Close during more of 3 seconds until release completely slats tension.. **The next opening will stay protected by the system.**
 - Eliminate the blocking cause(s) and go again with the pool opening.
 - 2 - Untimely stop:
 - Close during **1 to 3 seconds.**
 - he next opening won't stay protected by the system**
 - Go again with pool opening.
- In case of untimely activations, decrease the sensitivity of the card.
 - In case of too important effort before activations, increase the sensitivity of the card. "Sensibilité de déclenchement" parameter

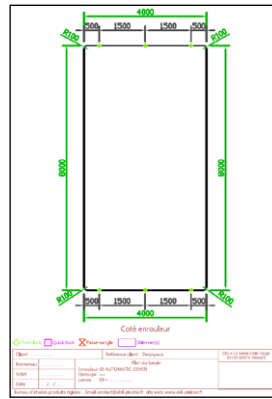
Protected opening



Non-protected opening

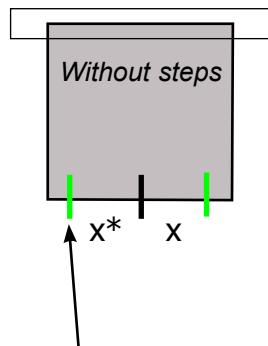


The position of the fastener kits on the cover is indicated on the drawings shipped with the slats.

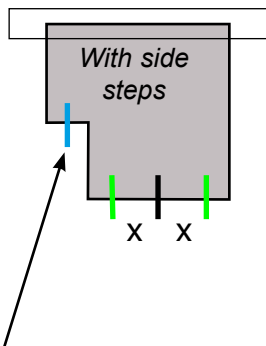


All changes to the positioning of the kits must comply with the rules given below. For other cases please contact us.

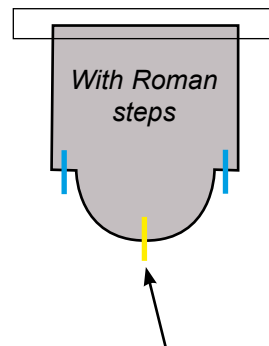
16 Positioning rules



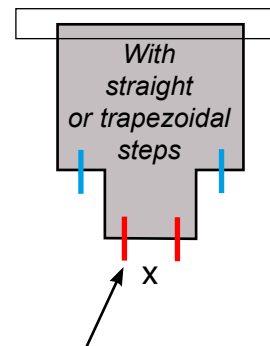
kit at max. 50 cm from the edge



1 kit centred if < 1 m
1 kit at 50 cm from the edge if < 2 m
2 kits if > 2 m



kit at the end of the steps
Roman



2 kits at max. 50 cm from the edge



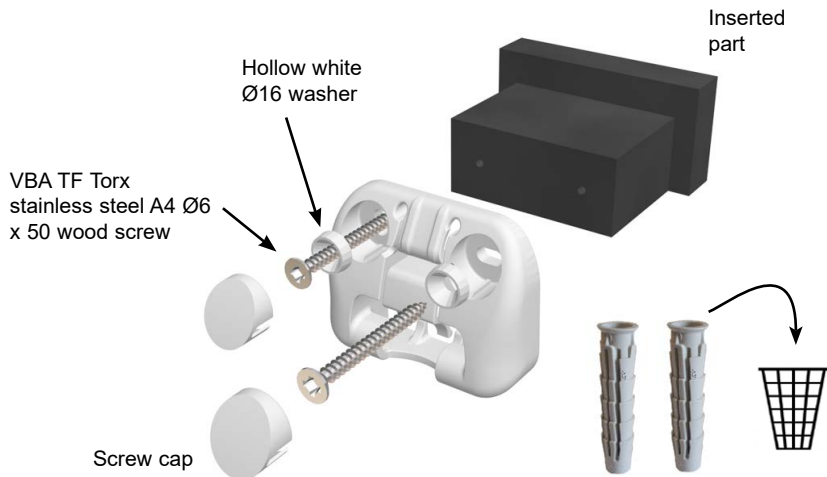
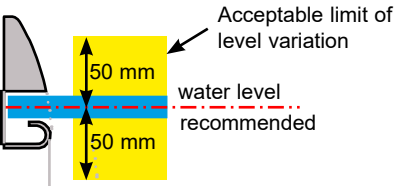
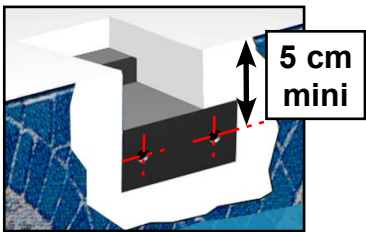
* X must never exceed 2 m

The Quick-lock fastener system cannot be used on cut off corners and curves, except at the end of Roman steps.

A water level regulator is mandatory

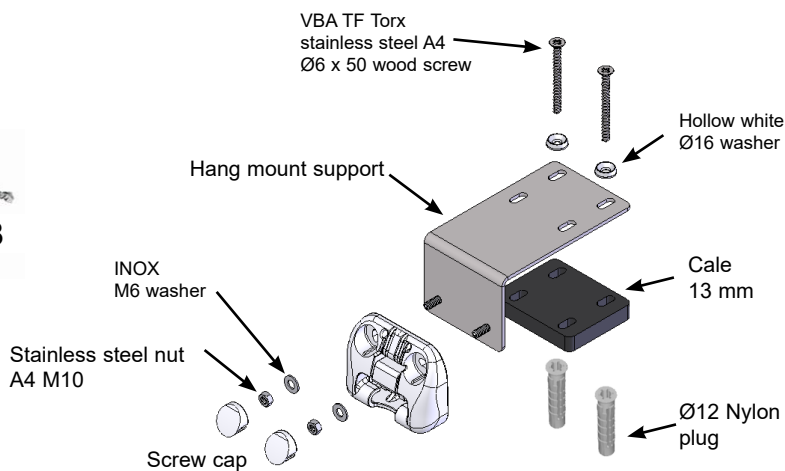
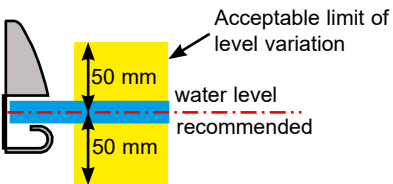
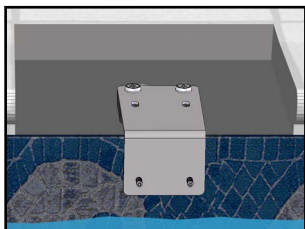
Insert mounted model

For concrete and panel pools



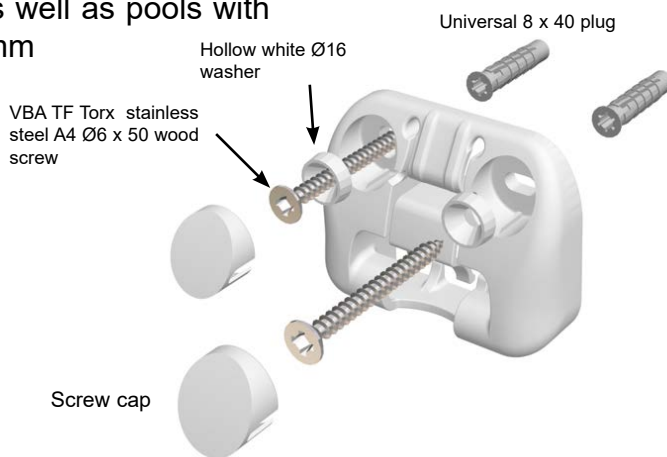
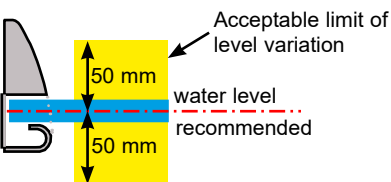
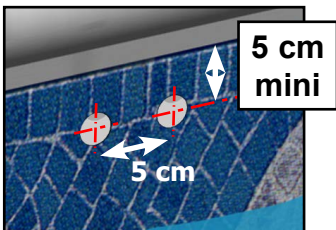
Hang mounted version

For concrete and panel pools

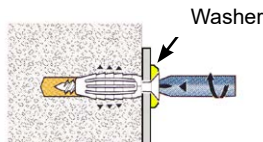


Surface mounted model

For concrete and concrete block pools, as well as pools with wall thickness greater than or equal to 8 mm

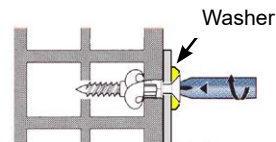


Concrete

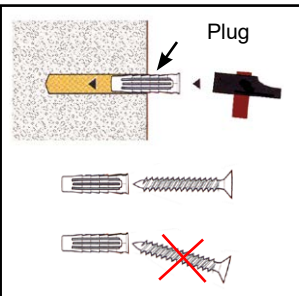


Once the resistance point has been reached stop screwing, this would deteriorate the fixture quality.

Concrete block



After reaching the resistance point, make 3 more turns of the screwdriver to finish tightening.

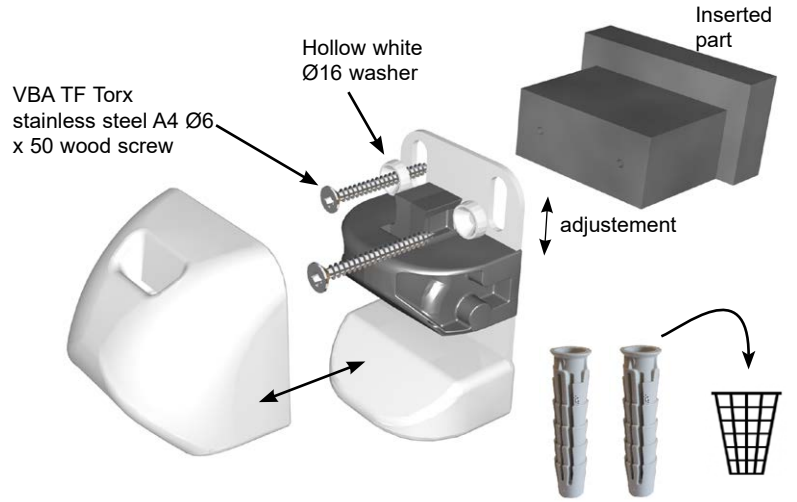
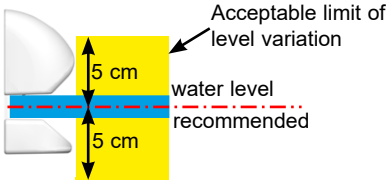
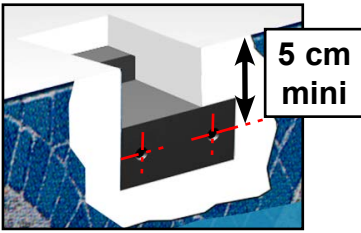


INSTALLATION QUICK-LOCK

A water level regulator is mandatory

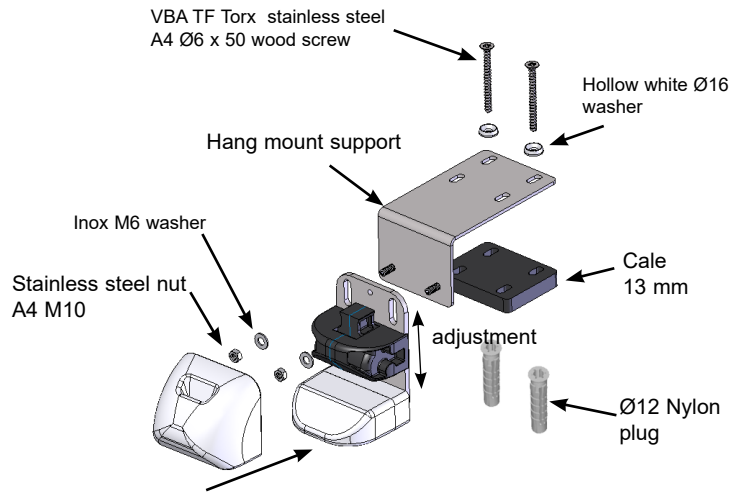
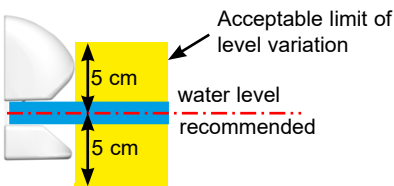
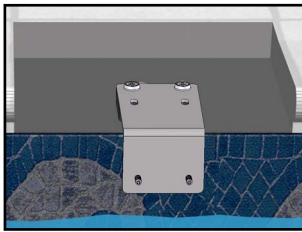
Insert mounted model

For concrete and panel pools



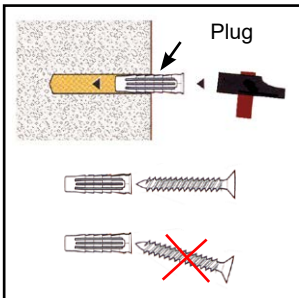
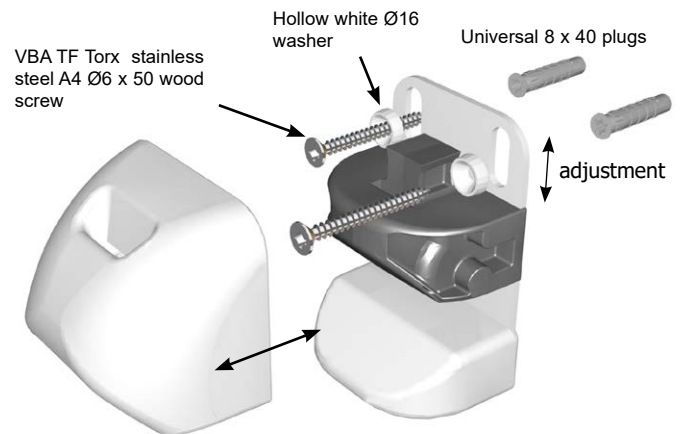
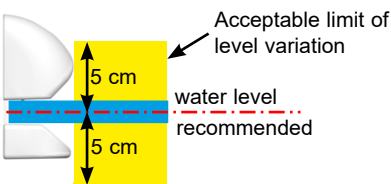
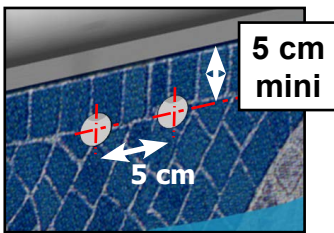
Hang mounted version

For concrete and panel pools

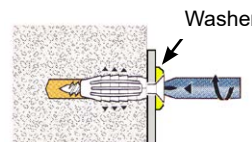


Surface mounted model

For concrete and concrete block pools, as well as pools with wall thickness greater than or equal to 8 mm

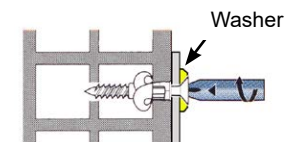


Concrete



Once the resistance point has been reached stop screwing, this would deteriorate the fixture quality.

Concrete block

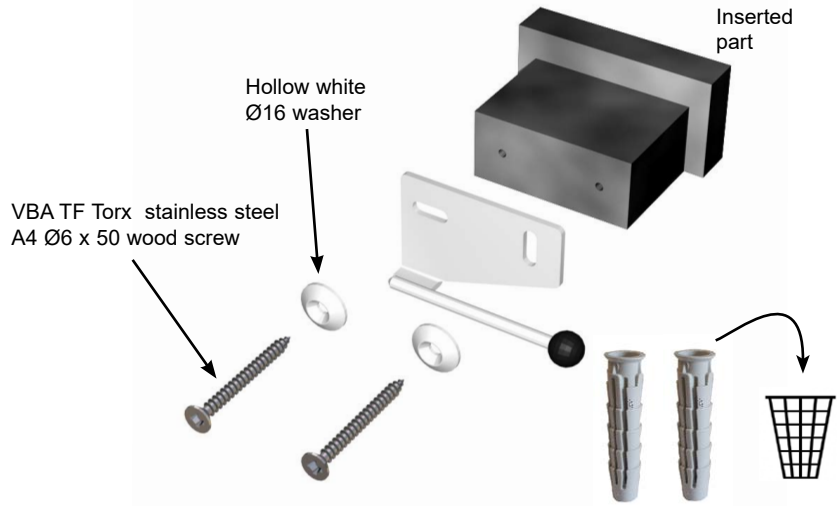
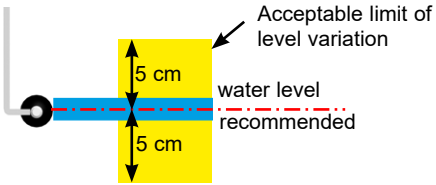
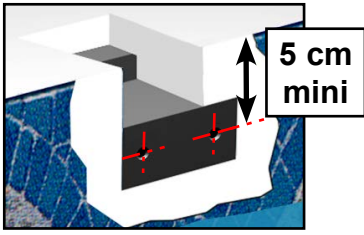


After reaching the resistance point, make 3 more turns of the screwdriver to finish tightening.

A water level regulator is mandatory

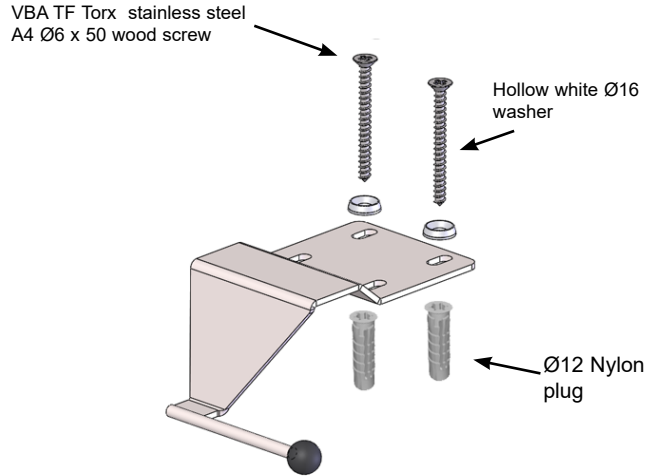
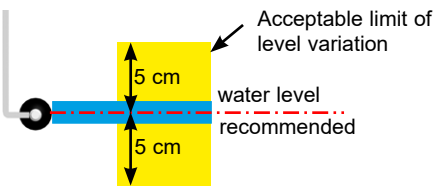
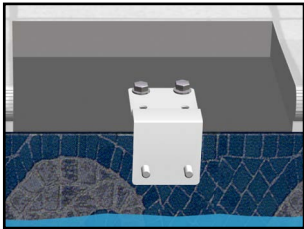
Insert mounted model

For concrete and panel pools



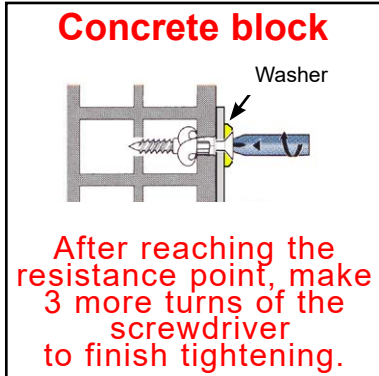
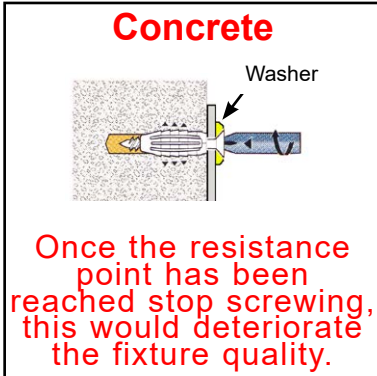
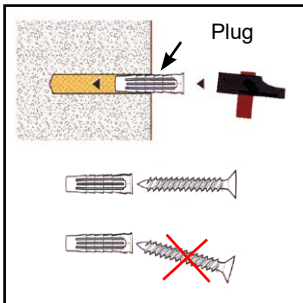
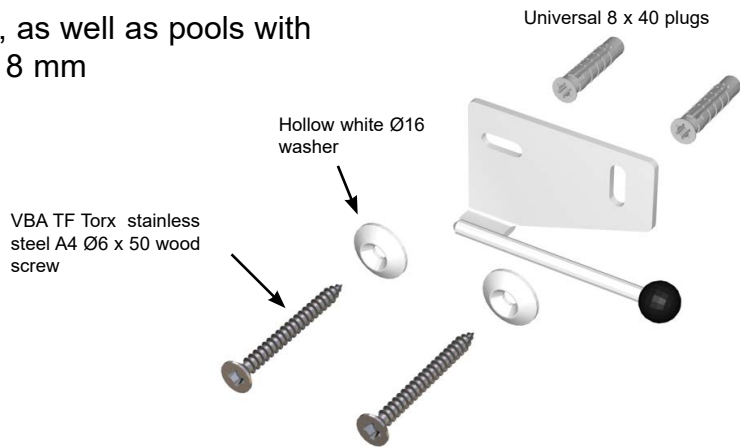
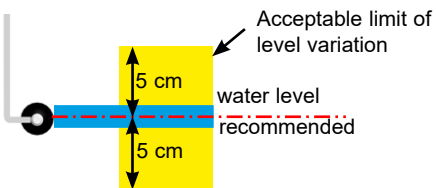
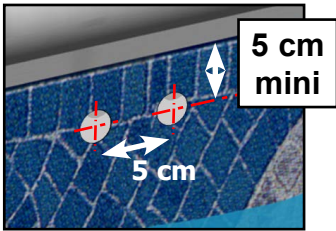
Hang mounted version

For concrete and panel pools



Surface mounted model

For concrete and concrete block pools, as well as pools with wall thickness greater than or equal to 8 mm

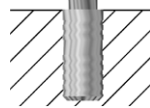


INSTALLATION OF THE STRAP-HOLDER ANCHOR EYEBOLT

Eyebolt for concrete beach

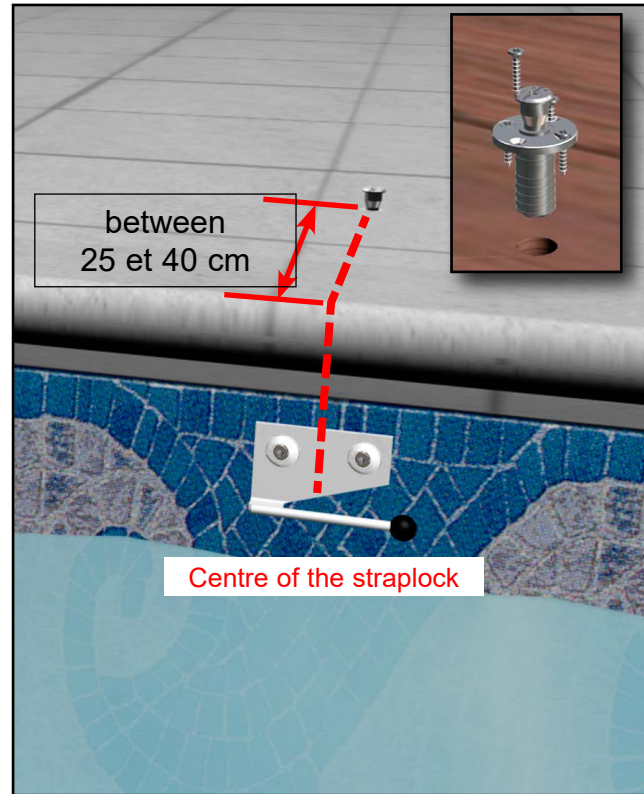
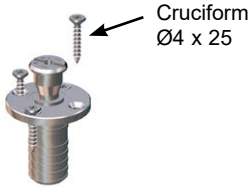


The head of the eyebolt must be higher than the beach surface



Do not force the eyebolt into a drill hole of a smaller diameter than this

Eyebolt for wooden beach



INSTALLATION OF THE STRAPLOCK STRAP

single strap



double strap



or

+

+

+

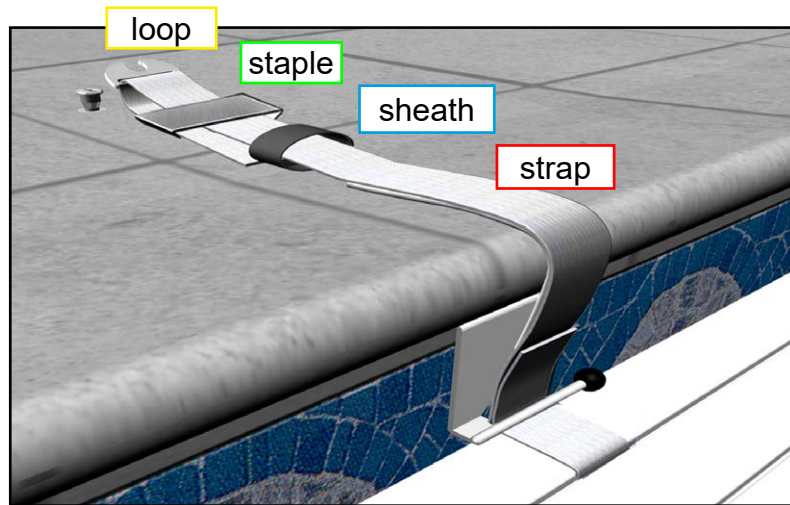
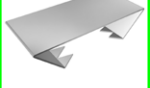
Protective sheath



loop

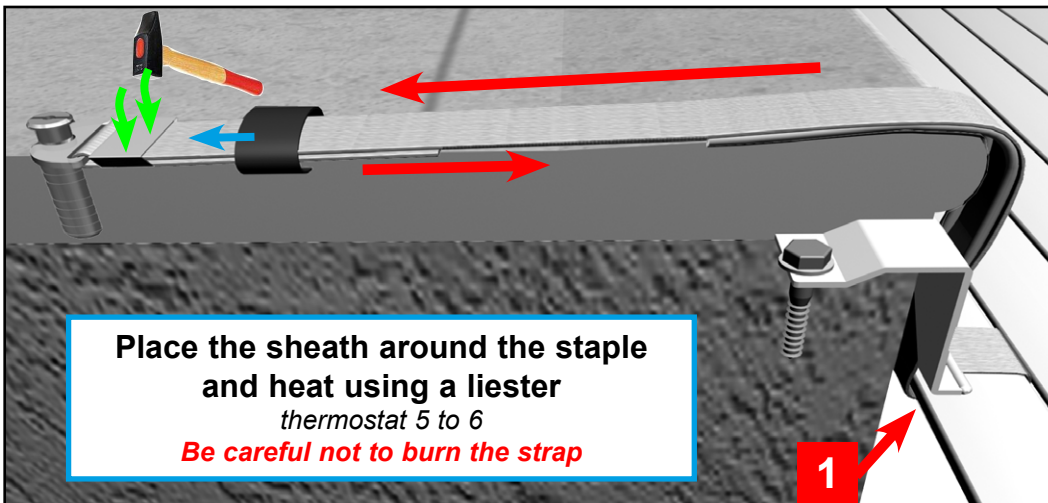


staple



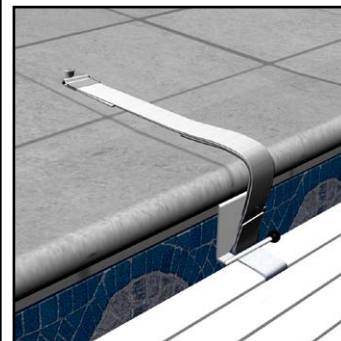
Stretch the strap
the cover must touch the underside of the straplock

Place the strap in position after the loop and crimp
the 2 strap thicknesses pass inside the stable



Place the sheath around the staple and heat using a liester thermostat 5 to 6

Be careful not to burn the strap



OPENING/ CLOSURE OF THE POOL

**ALWAYS KEEP AN EYE ON THE POOL DURING OPENING OR CLOSING OPERATIONS.
ALWAYS CHECK THAT THE POOL WATER LEVEL IS CONSTANT AND COMPLIANT WITH THE
RECOMMENDATIONS ON THE INSTRUCTIONS**

- It is imperative not to halt the cover in an intermediate position, this can cause the risk of jamming a bather's body under the cover casing, if a bather uses the pool.
- When using an automatic cleaner under the cover, check that the hose does not affect the movement of the slats when opening and closing the cover.
- It is essential to remove floating objects when opening and closing the cover.
- Do not block the cover while extending or retracting.
- Do not activate the automatic cover when it is iced in.
- The opening or closure operation requires about 2 minutes for one person and about 3 minutes to lock or unlock the attachment kits.

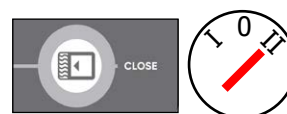
Opening: Always release the cover before starting the motor.

- Unlock all the fastening systems.
- Operate the open control.
- Stow the unlocking tools out of the reach of children.
- Lock the WI-Key command



Closure:

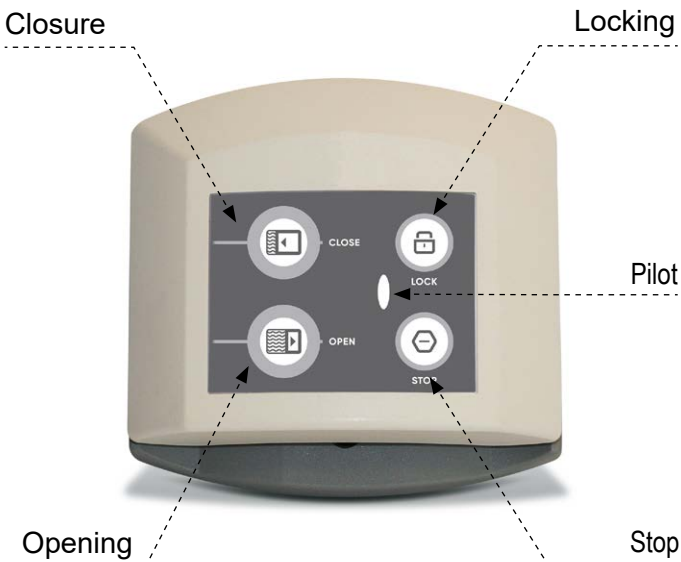
- Operate the «contact maintained during closure» close control
- Lock all the fastener systems.
- Stow the unlocking tools out of the reach of children.
- Lock the WI-Key command



Never place products that were not designed for the purpose on slat covers, as this may warp the slats. Never leave objects on the cover (towels, buoys, etc.) because, in direct sunlight, the slats would be locally expanded and the warranty would be void. «Solar polycarbonate slats are incompatible with bromine treatments and treatments containing bromine. Do not put undiluted chemical products in direct contact with solar polycarbonate slats (e.g. algae protection products). It is essential to first carry out a test on a small surface area.»

IMPORTANT

When closing the pool, it is essential to **KEEP THE CONTROL PRESSED FOR AT LEAST 3 SECONDS**. This is required to guarantee automatic obstacle detection the next time the cover is opened.



LOCKING THE WI-KEY

- Press on for more than 3 seconds until the pilot flashes = system locked

UNLOCKING THE WI-KEY

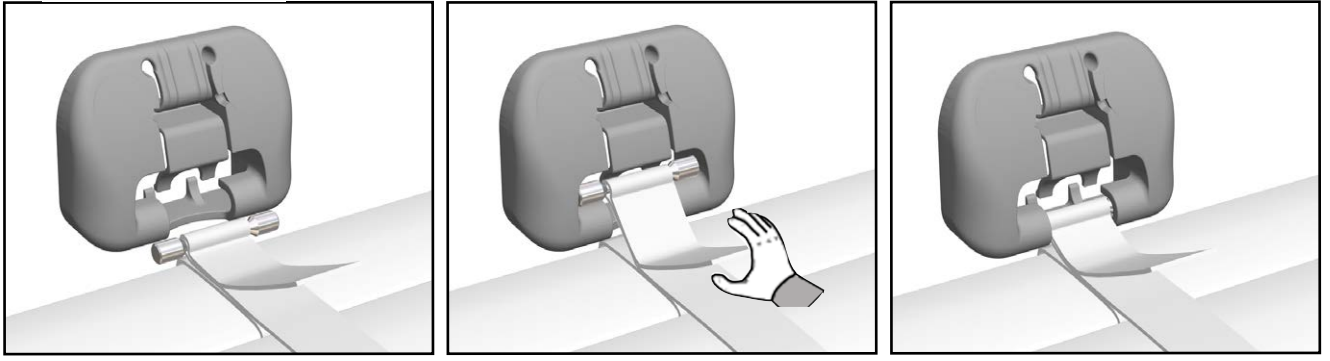
- Press and keep it pressed.
- At the same time: successively press the following 3 keys:
- The pilot remains on = emitter unlocked

LIGHT INDICATORS

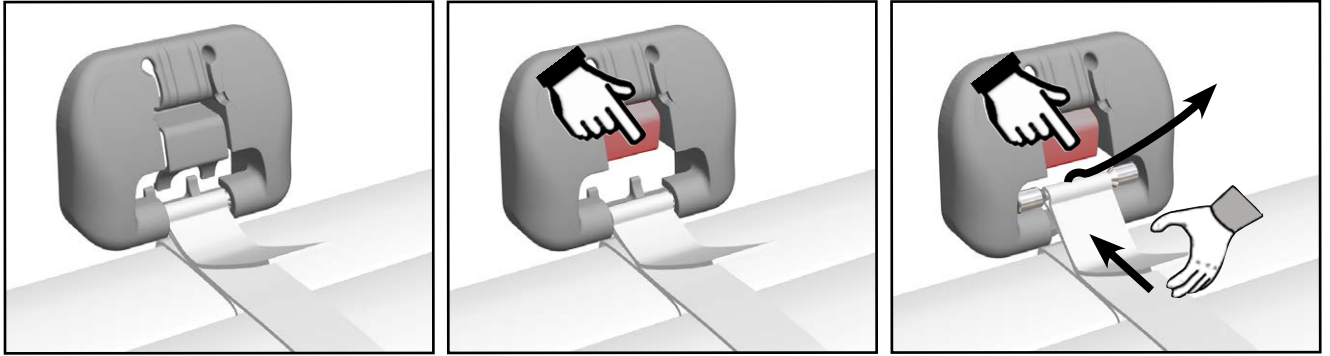
When you press a key, the light indicators below provide information on the Wi-key status (locked/unlocked), as well as the battery charge level.

	Green LED	----->	Wi-key unlocked
	Red/green flashing LED	----->	Wi-key locked
	Orange LED	----->	Battery level low
	Red LED	----->	Change the batteries (2 x LR03)

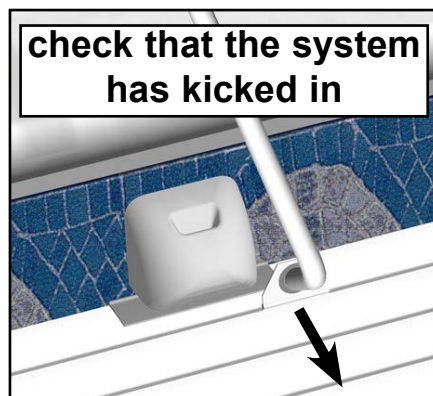
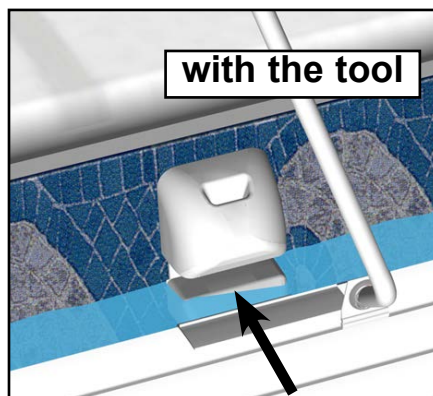
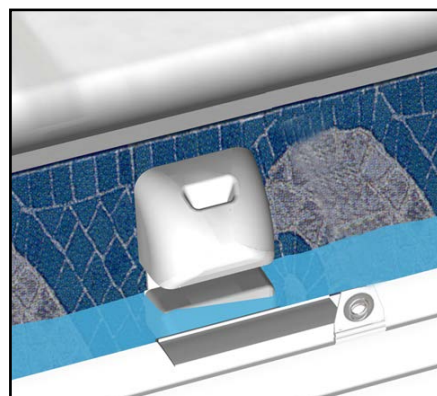
Locking



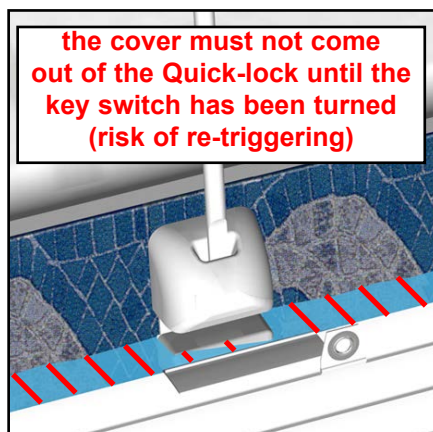
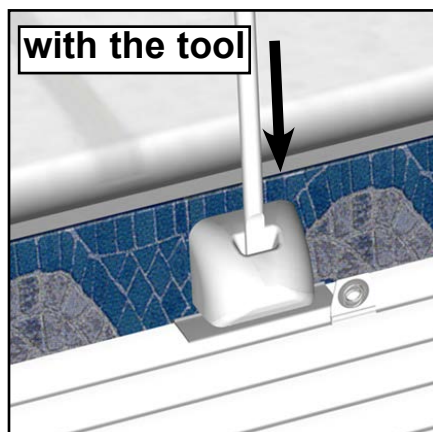
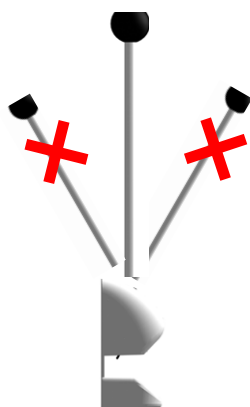
Releasing



Locking



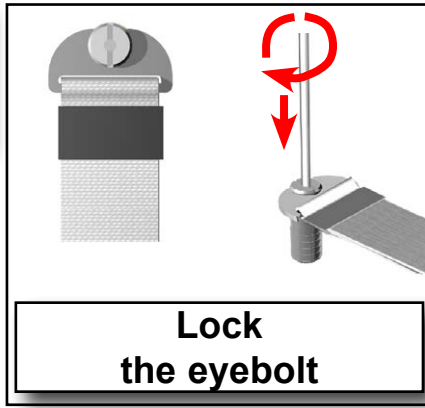
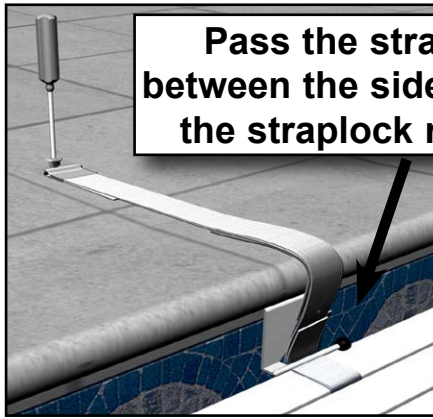
Releasing



LOCKING AND RELEASING THE STRAPLOCK

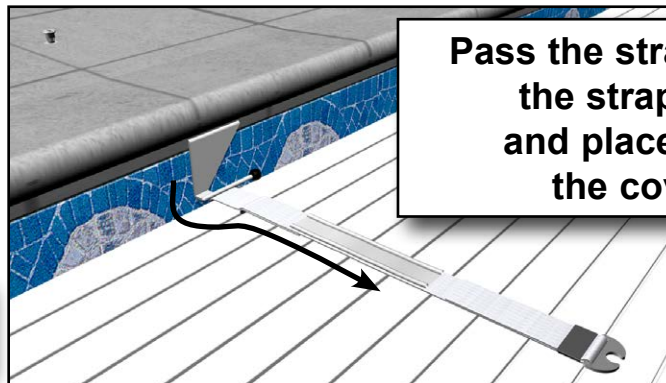
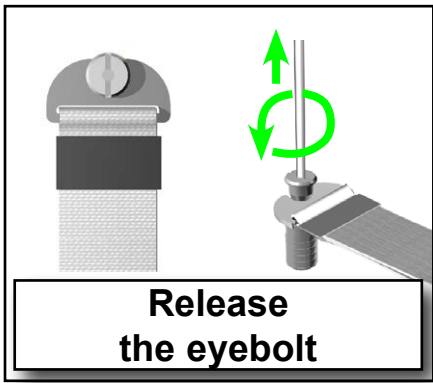
Use

Locking



The strap must be tight and the cover must touch the bottom of the straplock

Releasing



POOL WATER LEVEL

- To ensure optimum safety and the correct operation of the roller, always check that the level of the water in the pool remains constant and compliant with the manufacturer's recommendations.
(For further comfort, use an overflow and a level regulator).
- When the level is too high it is caused by the overflow being blocked by leaves or other debris.
- If the water level is too low there is a risk of jamming.
- If there are gutters or hand rails, the pool must be equipped with a water level regulator.

FILTERING

- Programme filtering during sunlight periods and operate it permanently as soon as the water reaches 25°C.

CLEANING (USER'S RESPONSIBILITY)

- Clean your cover fully twice a year (start of season and wintering). This is even more important if you have hard water. To do this, use a high pressure cleaner with warm water and a descaling product (Décalcit super).
- Also take care to regularly clean the fastening systems and especially the eyebolt so that it never jams. We recommend lubricating the eyebolts every year for optimum operation.
- It is advisable to inspect the whole system, in the event of abnormal strain on the cover (eg. somebody falling)
- Check the straps annually
- To obtain the best performance from the solar panels, regularly clean them using a window cleaning product.

BATTERIES



AT THE FIRST SIGN OF WEAKNESS, RECHARGE THE BATTERIES.

NEVER COMPLETELY RUN DOWN THE BATTERIES

Connect the batteries to the charger (*be careful of the polarity*). Plug in the charger. It will turn on automatically at the suitable voltage and the charging process starts. The red LED indicates charging. When charging is complete, the red LED turns off and the batteries are supplied using a maintenance charge. (see charger notice)

Warning: - Keep the charger in a dry place. Never recharge close to the pool, do this in a dry place.
Toujours déconnecter les panneaux solaires avant de débrancher les batteries.

WINTERING

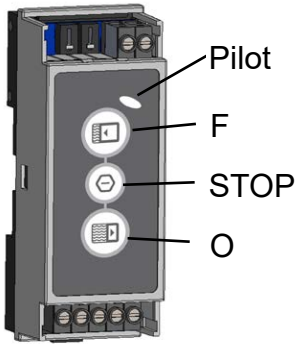
- Winter the pool depending on its geographic location.
- Close the cover in the safety position.
- Leave the batteries connected inside the roller and do not cover the solar panel.
- We recommend you install the IVERNEA winter shield to protect the cover from UVs and dirt

MAINTENANCE

- All work must be carried out by a professional who will contact the manufacturer if necessary.
- All spare parts must be original or compliant with the standard.
- Inspect the whole cover for damage/wear and tear.
- At the beginning of each season and in the event of an accident (fall, hail on the cover, abnormal strain on the cover, etc.) check that the slats have no visible signs of deterioration that could prevent the safe operation of the cover (cracked, pierced or bent slats, etc.). Change the slats or the whole cover if necessary.
- In both summer and winter, do not cover the slats with an opaque cover. There is a risk of damage due to excess heat.
- Check the condition of the straps (seams) and especially wear on the anti-abrasion sheath. If the latter no longer fulfils its protective function from friction of the strap against the pool side, replace it.
- The «witness» flashes RED = change the control box battery

Pairing -- delivered pre-paired

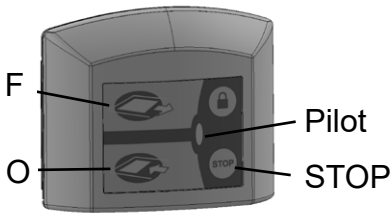
1 receiver



Press «STOP» and, without releasing it, press «O» for more than 3 seconds
OK when the «pilot» flashes green.

an emitter must be paired within the next 30 seconds.

2 emitter



Press «STOP» and, without releasing it, press «O» for more than 3 seconds
OK when the «pilot» flashes red / green.

another emitter must be paired within the next 30 seconds.

Replacing the batteries



Be careful of the seal when re-assembling

	Receiver	Emitter
Manufacturer	DEL	DEL
Reference	Wikey receiver	Wikey emitter
Category	3 (EN 300220-1)	3 (EN 300220-1)
Range	50m in an obstacle-free zone	50m in a free zone
	25m through a concrete wall	25m through a concrete wall
Power supply	12 to 48 VDC 30mA max	Two 1.5V AAA batteries
Protection index	< IP40	< IP54

**DEAR CUSTOMERS,
THANK YOU FOR CHOOSING A DEL AUTOMATIC COVER.
PLEASE READ THE INSTRUCTIONS BELOW CAREFULLY.**

·POOLS CAN BE A SERIOUS DANGER FOR CHILDREN. DROWNING CAN HAPPEN QUICKLY.

S A F E T Y A D V I C E

WHEN CHILDREN ARE AROUND THE POOL THIS REQUIRES YOUR CONSTANT VIGILANCE AND ACTIVE SUPERVISION, EVEN IF THEY CAN SWIM.

THE PHYSICAL PRESENCE OF A RESPONSIBLE ADULT IS ESSENTIAL WHEN THE POOL IS OPEN.

LEARN LIFE SAVING TECHNIQUES.

REMEMBER AND POST THE EMERGENCY SERVICE NUMBERS CLOSE TO THE SWIMMING POOL.

- FIRE BRIGADE: 18 (IN FRANCE) OR 112 FROM A CELL PHONE
- AMBULANCE : 15 (IN FRANCE)
- POISON CENTRE:

·THIS COVER IS NOT A SUBSTITUTE FOR COMMON SENSE NOR FOR PERSONAL LIABILITY. THE PURPOSE OF THIS COVER IS NOT TO REPLACE THE VIGILANCE OF PARENTS AND/OR RESPONSIBLE ADULTS WHICH REMAIN THE ESSENTIAL FACTORS FOR THE SAFETY OF YOUNG CHILDREN.

·BE AWARE THAT SAFETY IS ONLY ACHIEVED BY A CLOSED COVER THAT IS LOCKED AND CORRECTLY INSTALLED IN COMPLIANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

·COMPLY WITH THE WATER HEIGHTS DEFINED BY THE MANUFACTURER.

·THE COVER MUST SYSTEMATICALLY BE CLOSED DURING ALL ABSENCES FROM HOME, HOWEVER SHORT.

·MAKE SURE THERE ARE NO BATHERS OR FOREIGN BODIES IN THE POOL BEFORE AND DURING CLOSING.

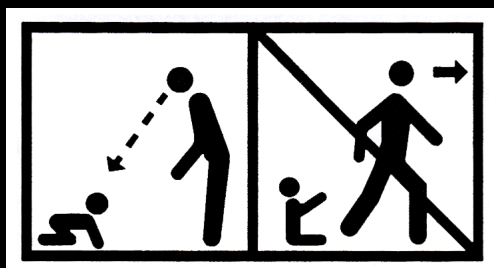
·PLACE THE TOOLS REQUIRED TO OPEN THE COVER OUT OF THE REACH OF CHILDREN (THE KEY FOR EXAMPLE)

·THE OPENING ACTION OF THE MECHANISM SHOULD ONLY BE UNDERTAKEN BY A RESPONSIBLE ADULT.

·IT IS FORBIDDEN TO CLIMB ON, WALK OR JUMP ON A SAFETY COVER.

·IF A MALFUNCTION THAT PREVENTS THE CLOSURE AND SECURING OF THE POOL IS DISCOVERED, OR IF THE EQUIPMENT OR POOL ARE TEMPORARILY UNAVAILABLE, TAKE ALL NECESSARY MEASURES TO PREVENT YOUNG CHILDREN FROM ACCESSING THE POOL UNTIL THE COVER IS COMPLETELY REPAIRED.

·A CHILD CAN DROWN IN UNDER 3 MINUTES, NO TYPES OF PROTECTIVE MEASURE CAN REPLACE SUPERVISION AND VIGILANCE BY A RESPONSIBLE ADULT.



SWIMMING POOL BUILDER

DEL SAS - ZA La basse croix rouge 35530 Brécé -FRANCE- tel : + 33 (0)2 99 370 370