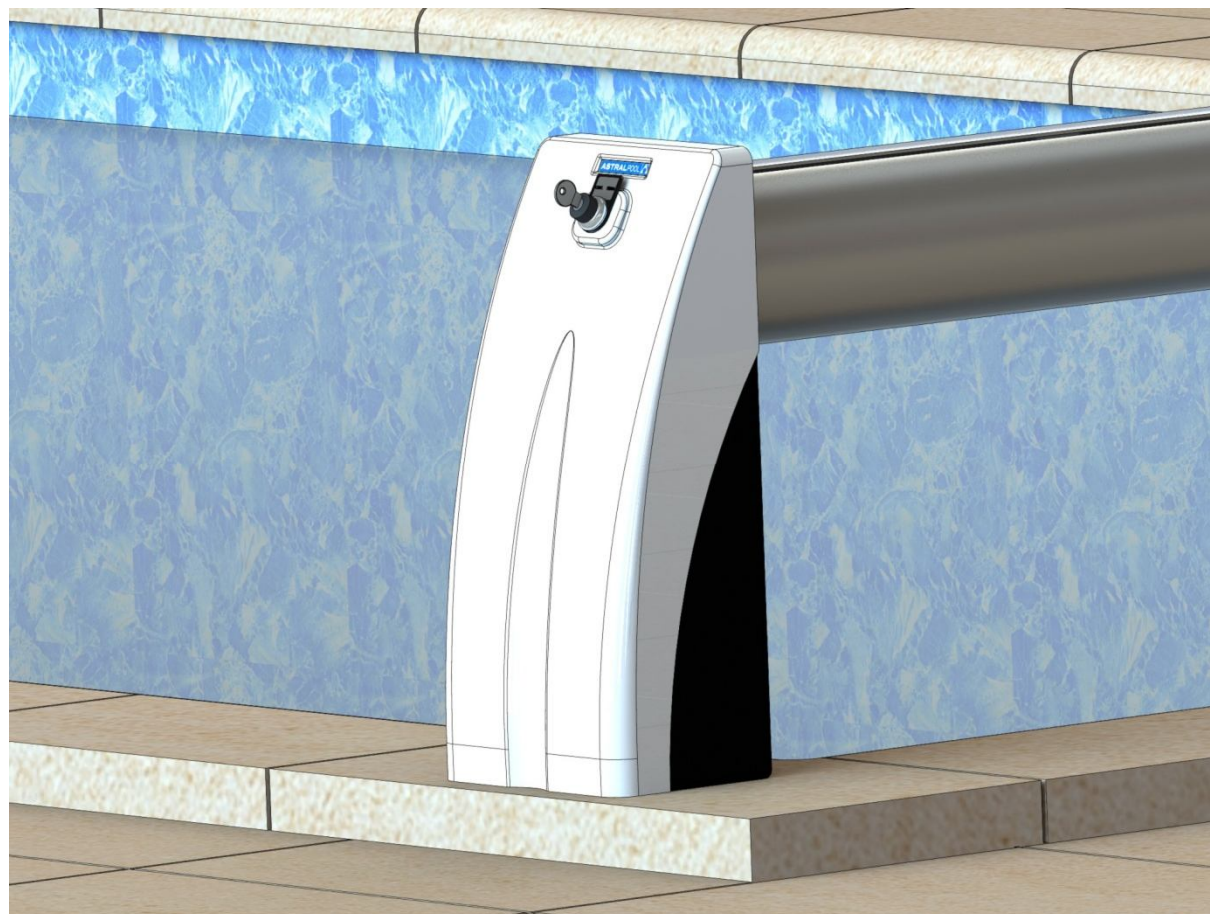


AUTOMATIC POOL COVER

N'CARLIT MODEL



INSTALLATION MANUAL AND MAINTENANCE



Serial number:

Revision number: B-002-2012-10-05

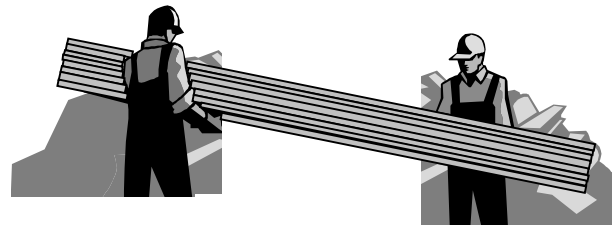
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UNLOADING



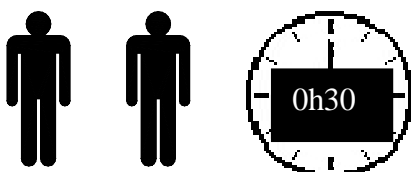
OR



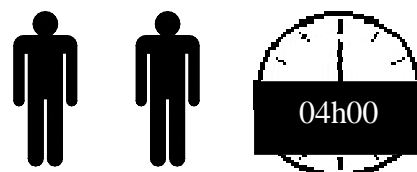
TOOLS REQUIRED FOR ASSEMBLY

-  Drill and drill bits for concrete Ø 6 and Ø10
-  Flat head screwdrivers
-  Phillips screwdrivers
-  Spirit level
-  10 - 13 – 17 wrench
-  Nippers
-  Wire strippers
-  5 and 6 mm Allen wrench
-  Hammer
-  Standard and long (10 m) measuring tape
-  Grease
-  Metal saw*
-  Grinder with material disk

UNLOADING TIME



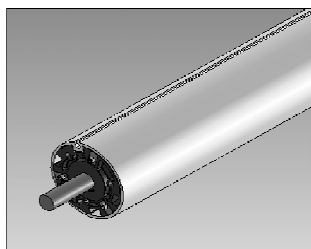
ASSEMBLY TIME



COMPONENTS OF THE AUTOMATIC POOL COVER



2 Winder stands :



Roller Shaft



Slats and fixing Brackets assembly



Electrical box



Installation Instructions
Operation, care, winterising and maintenance instructions.

MOTOR SIDE ASSEMBLY

Phase 1:

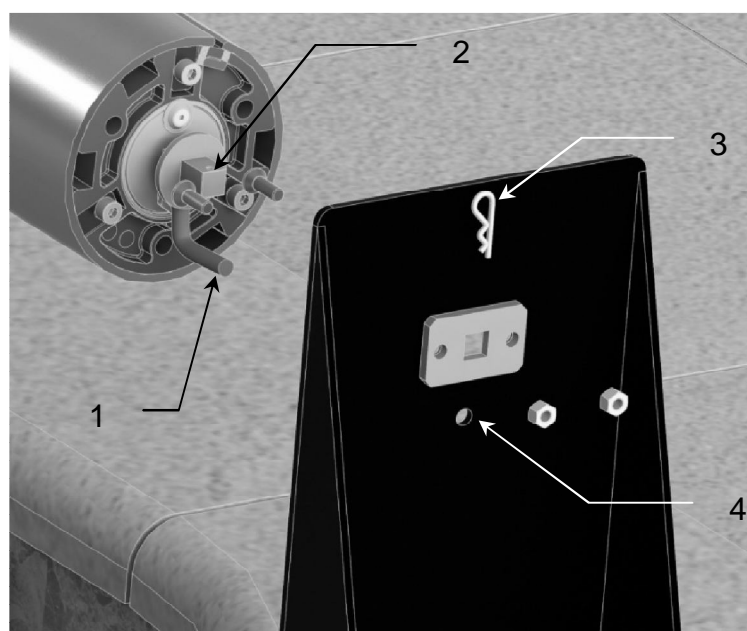
Put the motor power wire (1) through the hole (4) in the motor stand.

Phase 2:

Encase the motor square shaft (2) in the stand taking good care that the power wire is oriented to the bottom.

Phase 3:

Engage the safety pin (3) in the emerging motor shaft (2).



SHAFT SIDE ASSEMBLY

The ring (4) is a ring of protection; she must be between the shaft and the stand

Phase 1:

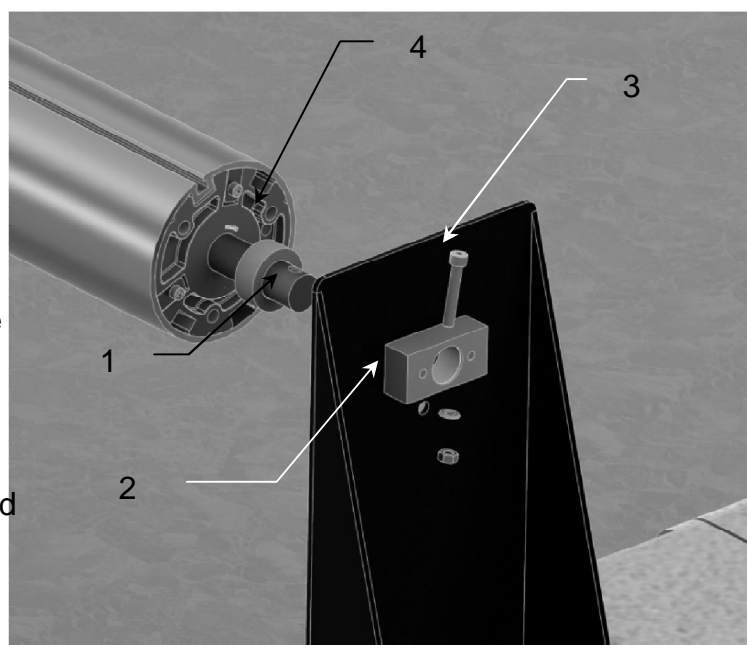
Push backwards the bearing (2) and put the pin (1) in the roller Shaft.

Phase 2:

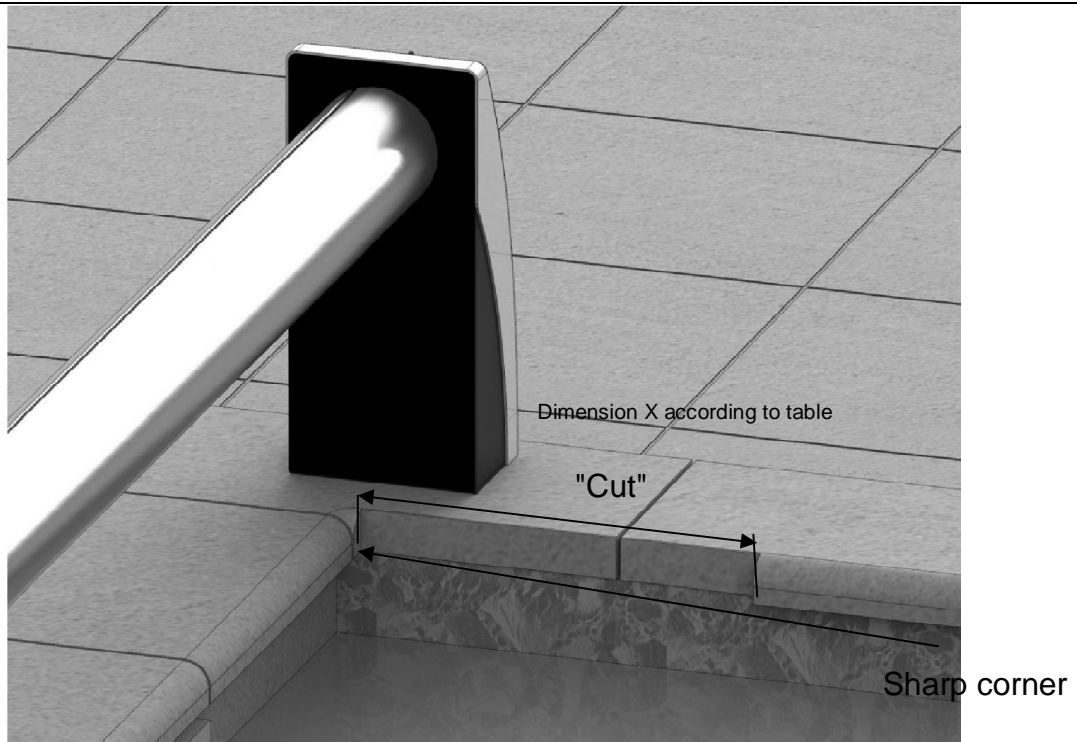
Put the bearing against the pin and push the whole Shaft in the stand.

Phase 3:

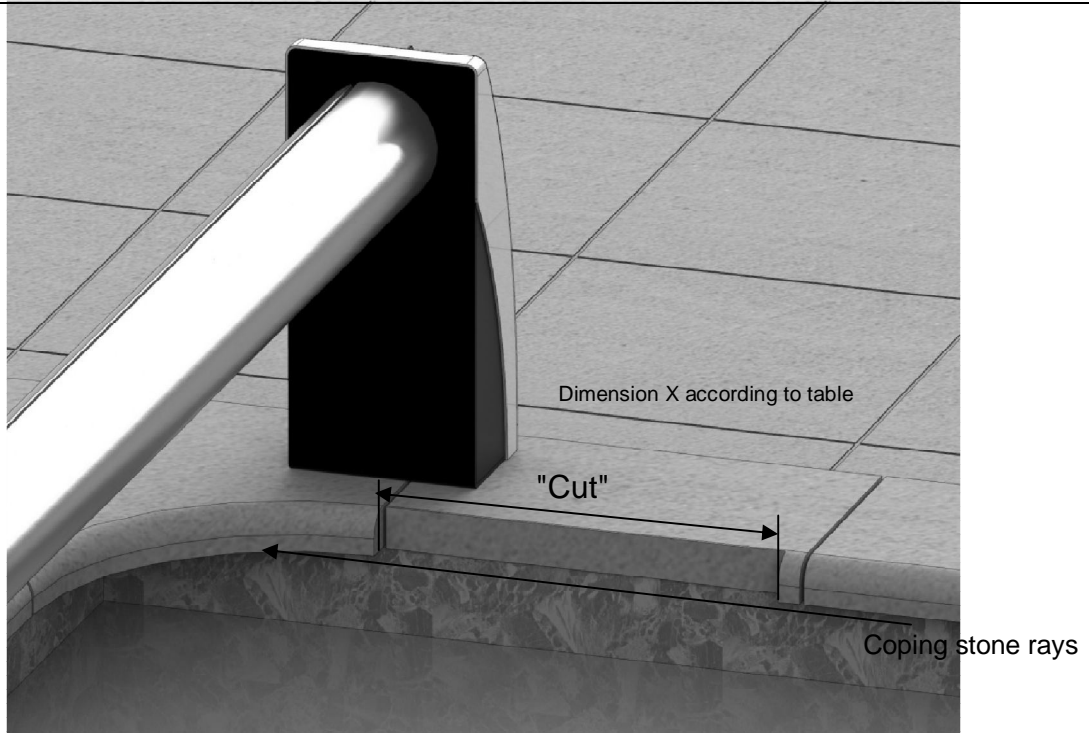
Put the two screws in the bearing wholes and fasten



POSITIONING WITH SHARP CORNERS



POSITIONING WITH RAYS

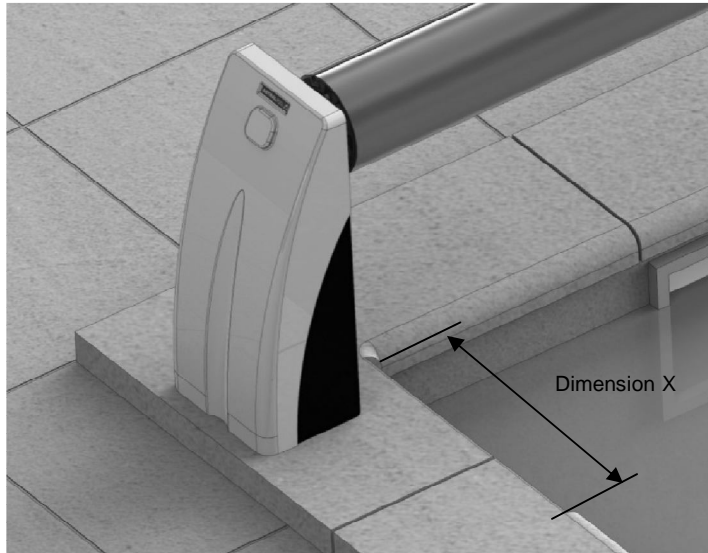


	POOL LENGTH						
Pool slats length	4 m	5 m	6 m	8 m	10 m	12 m	14 m
Dimension X in mm	210	210	250	250	300	300	310

Dimension X: Cut a piece of coping stone of variable length according to the diameter of slat roller, upon the roller shaft.

ROLLER INSTALLATION

- Position the roller as indicated in the diagram, making sure it is properly centred with respect to the pool. **It must be perfectly horizontal when installed (diagonals dimensions).**
- If there are rays, the roller should be pushed forward to the pool to enable the slats to lower properly in its full width.



- Mark the position of the roller stand and polish or flatten the coping stone to obtain a flat horizontal, even surface for placing the stands.
- Cut the coping stone (dimension X) to make it easier for the slats to be lowered over the pool. Dimension X may vary according to the length of the pool; roller (roller diameter on the roller shaft). (See page 05/18 table dim. X).
- After assembling the roller and making the adjustments, position the two roller stands to the final position on the coping stone, using M10x75 Stainless Steel Bolts.

Note: If the skimmers are fixed along the length of the pool, we recommend replacing their existing flanges with 2 mm thickness Stainless Steel flanges to easier the slats way and avoid their blockage.



Caution! A forcing of the stands to bring back them level by the fastening bolts can hurt/destroy the back part of the motor reducer.

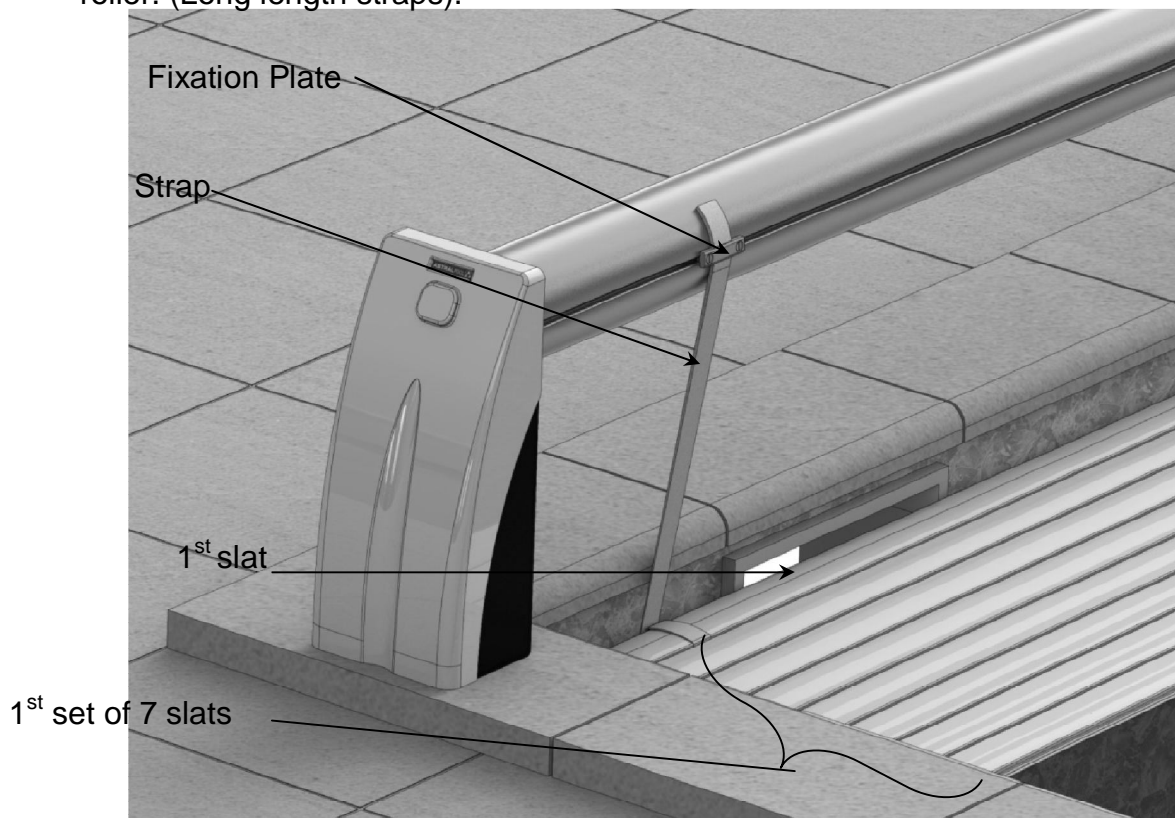


SLATS ASSEMBLY

* Immediately after taking the slats out of the packaging, they should be put into the water to prevent any possible deformation.

*The number of slats has been determined according to the length of the pool, though there are 4 extra slats.

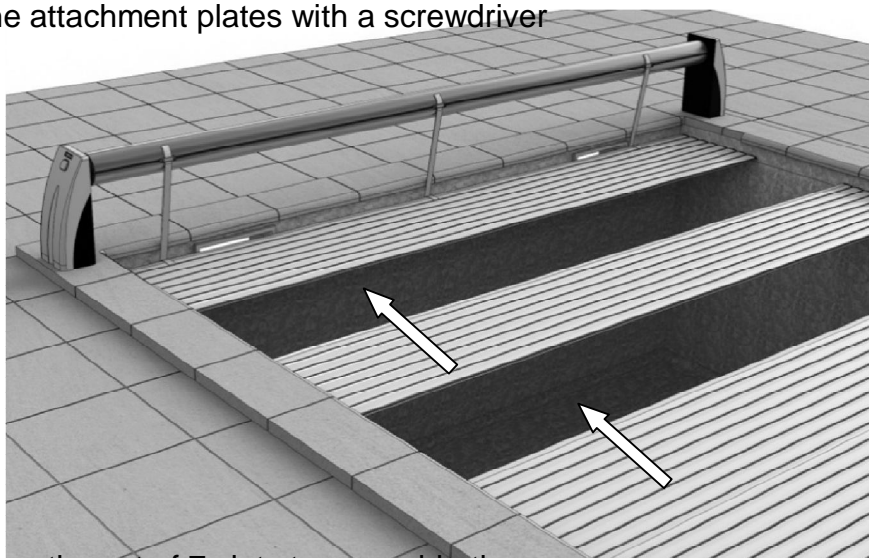
* The first set of slats is easily recognisable as it has the straps to be fastening to the roller. (Long length straps).



*Slide the strap under the fastening plates; tension it without pulling the slat out of the water

*Centre the cover in the pool leaving enough space on both sides.

*Tighten the attachment plates with a screwdriver

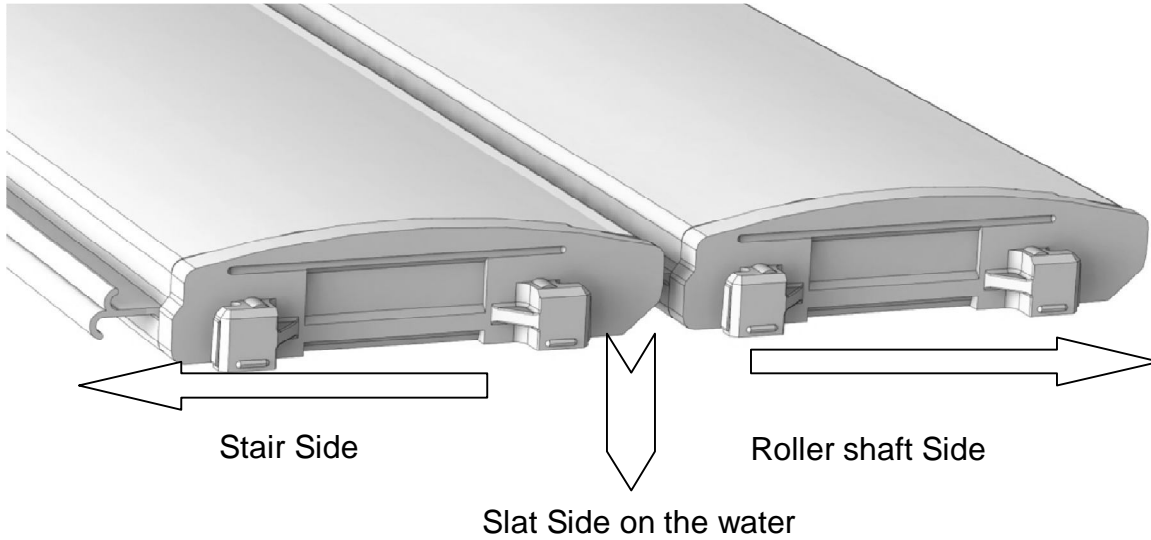


* Bring closer the set of 7 slats to assemble them.

Note: Slats should go down from the front of the roller shaft.

SLATS DIRECTION

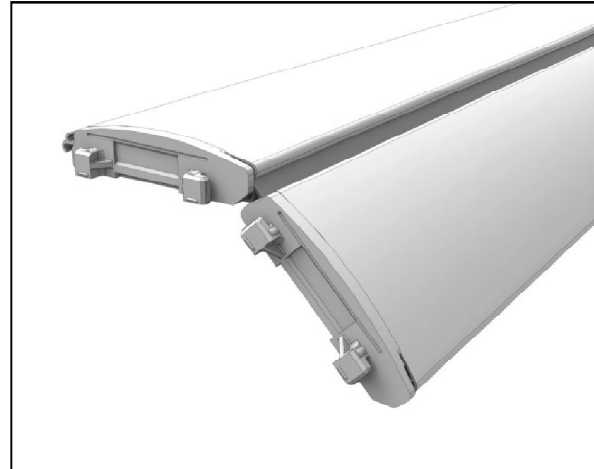
- * Identify the upper side of the slats (curved side).
- * Identify the slats direction:
 - Wing to the stair
 - Groove to the roller shaft



SLATS ASSEMBLING

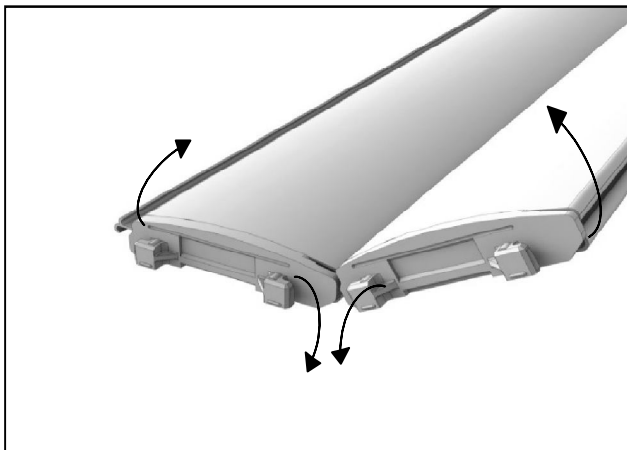
Phase 1: Join the slats

Phase 2: Join the wing to the groove

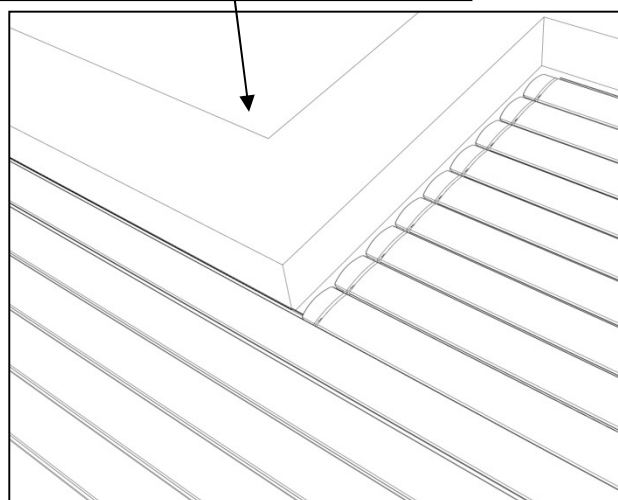
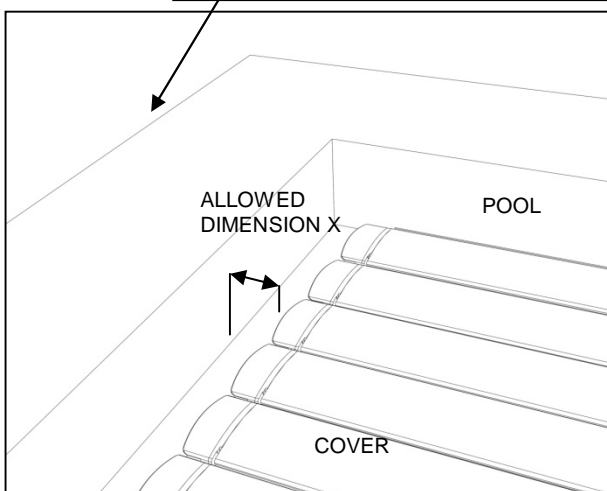
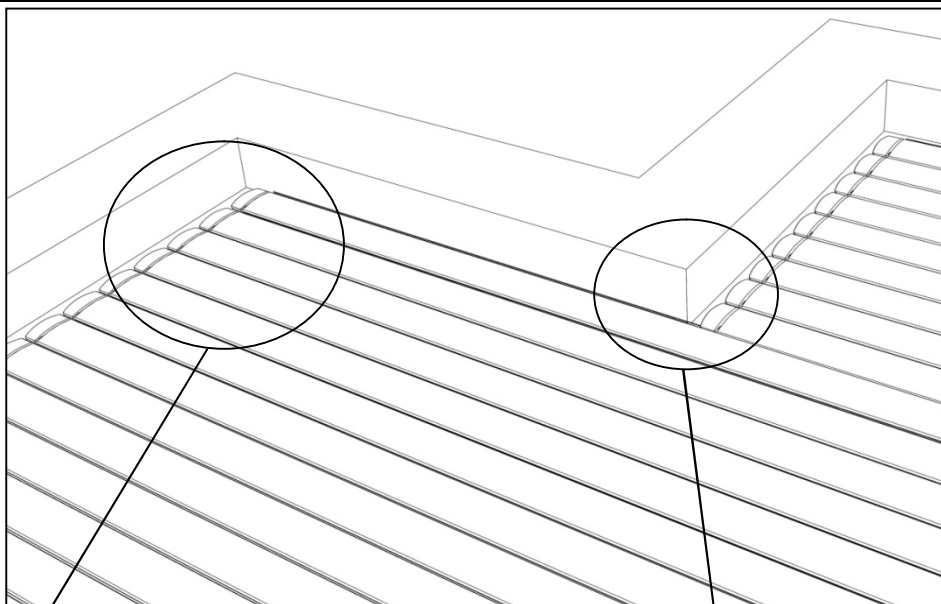


Phase 3: Move both slats down

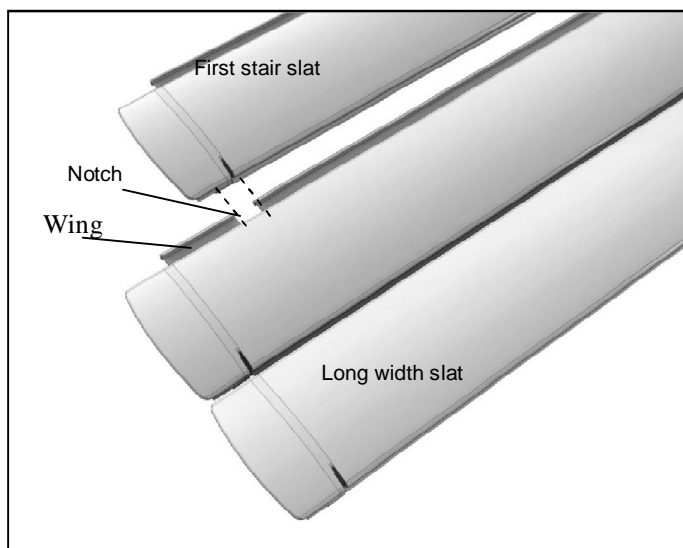
Phase 4: Move them up and carry on with it until slats are perfectly engaged.



STAIR SETTING



- 1°) Put the stair slats on the water
- 2°) Assemble the slats until the stairs are completely assembled.
- 3°) Centre the big width slats in the pool (allowed dimension X: from both sides of the pool)
- 4°) Centre the stair using this slat.

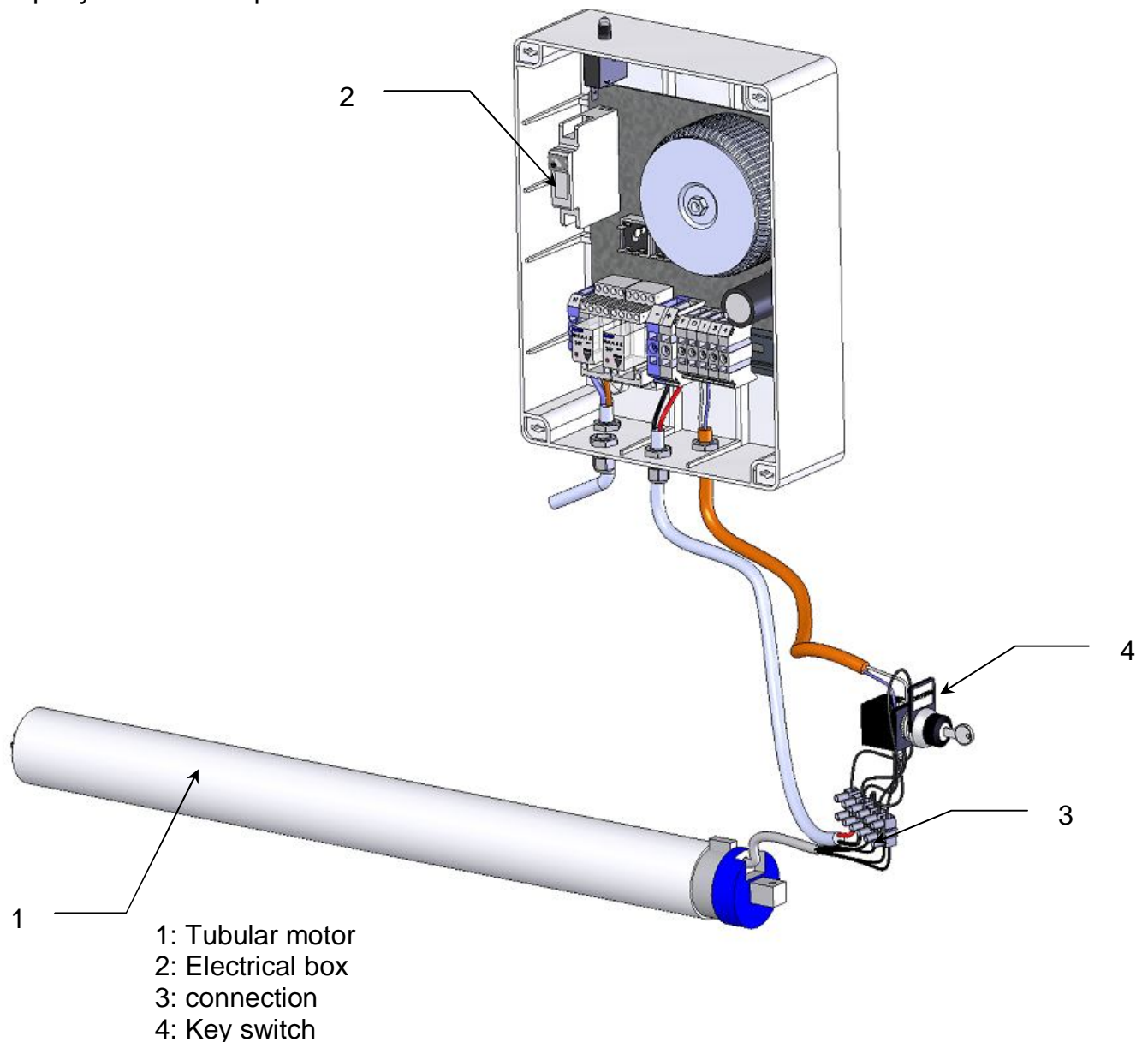


To assemble the stair slats to the pool slats, proceed as follows:

- ▶ Mark the position of both cap edges of the stair slat on the wing of the long width slat.
- ▶ Make two notches of a cap and wing dimension on both sides of the stair on the wing of the long width slat without hurting the waterproof of the slat.

ELECTRICAL CONNECTIONS

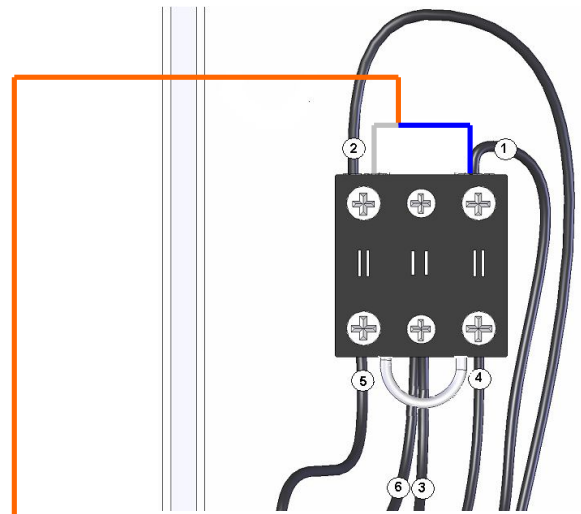
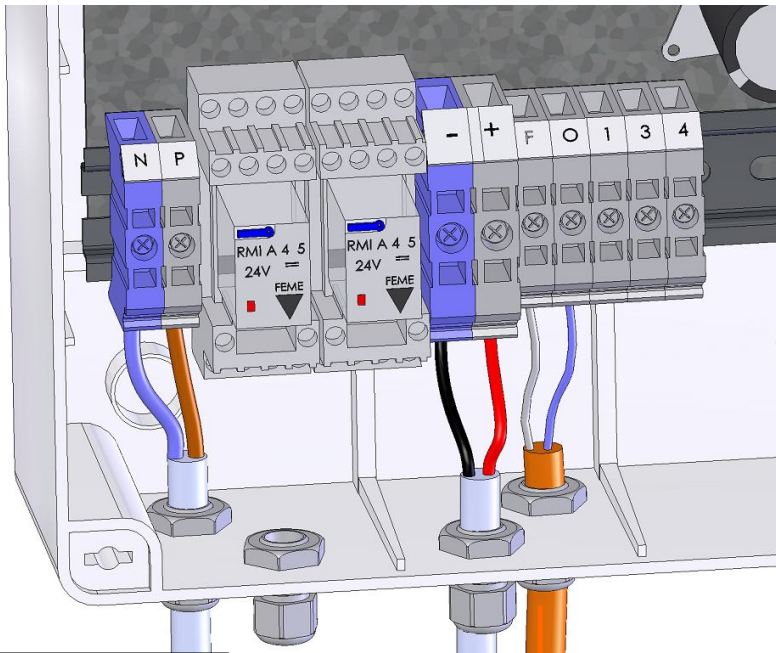
The electric installation must be made in accordance with C15100 and P91C by a properly trained and qualified electrician.



Note: The electrical box is located in the technical room of the swimming pool. Its power pack is carried out by a cable 3x2.5², and of a tension of 220 Volts, is protected by a differential circuit breaker from 30mA (not included)

Note: in the case of a connection of electrolysis of salt.
The contact 1 = COMMUN
The contact 2 = Contact NORMALLY OPENING
The contact 3 = Contact NORMALEMY CLOSED

PLAN OF WIRING



**Attention !
Wiring in the case of an
electrolysis in salt!**

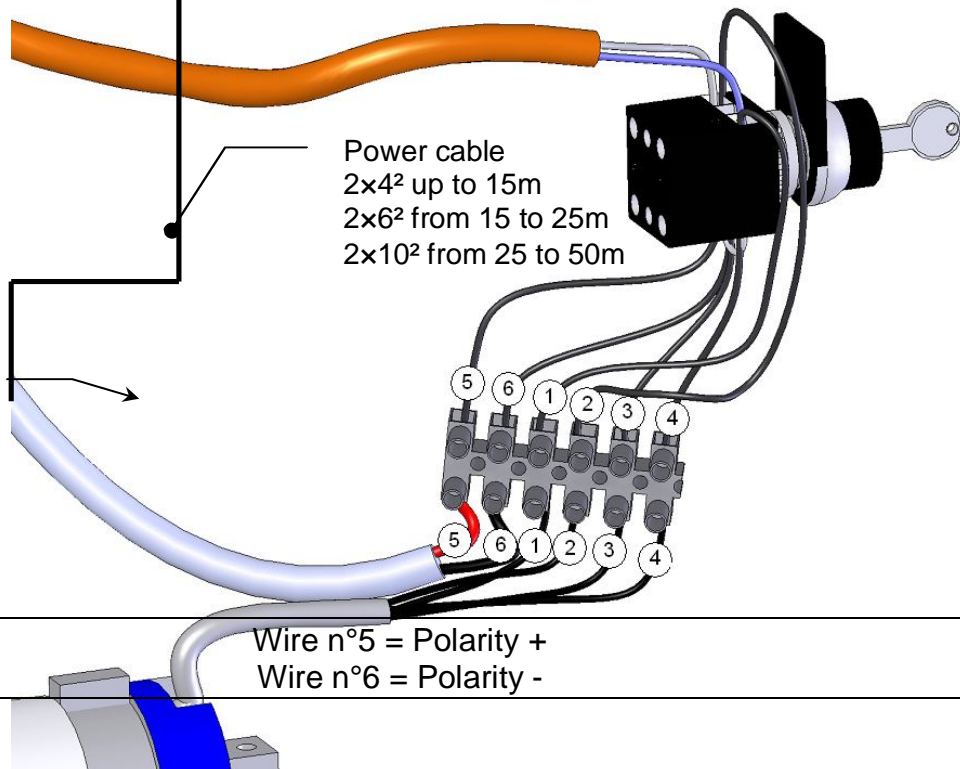
Circuit breaker of
30 mA not
included

Electric cable
3x 2.5²

Tension 220 Volts

Power cable
2x4² up to 15m
2x6² from 15 to 25m
2x10² from 25 to 50m

Motor cable

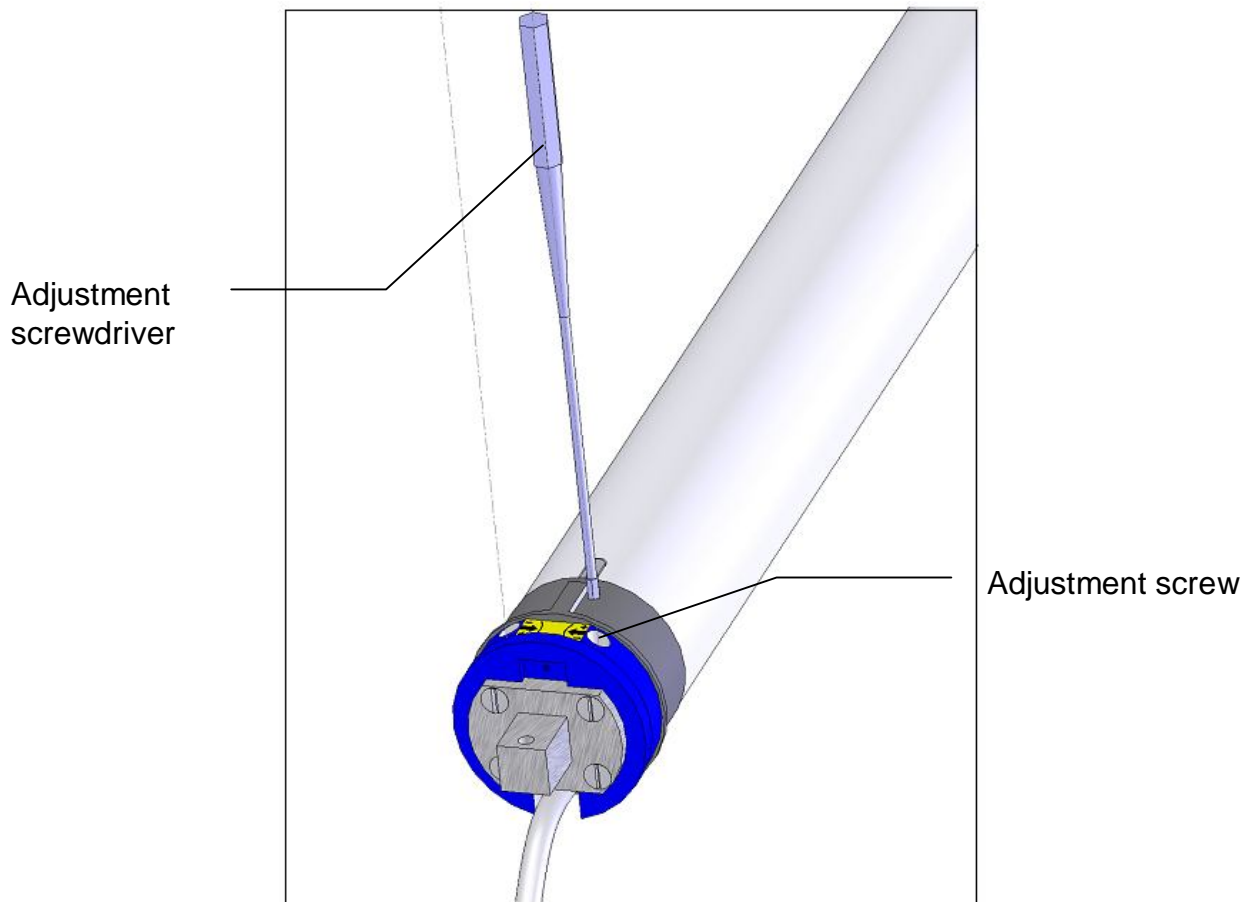


Wire n°5 = Polarity +
Wire n°6 = Polarity -

Note: The numbered reference marks from 1 to 6 are registered on black wire of the system all the 10 to 15 mm Thing of stripping the cable of the engine well, to see the reference marks!

NOT TO REVERSE POLARITES + AND - ENGINE!!!

LIMIT SWITCH ADJUSTMENT



Adjust the limit switch, starting with the cover completely extended over the pool.

Adjustment of cover opening:

- 1: Turn the switch key to rolling-up position and check the rotational direction of the motor. If required, interchange 1 and 2 cables of the key switch.
- 2: Adjust the adjustment screw until to get the roller stops, in the correct position.
- 3: Roll up the cover and adjust the limit switch by turning the adjustment screw.

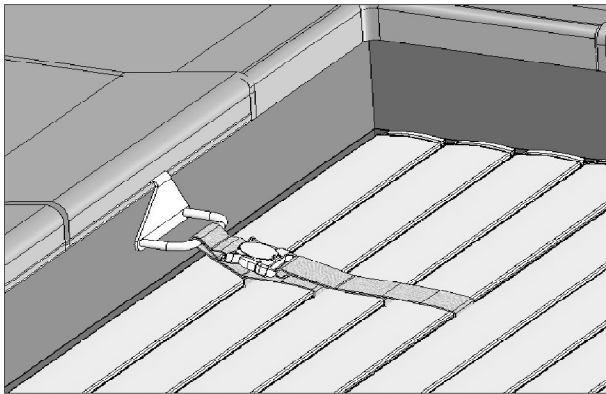
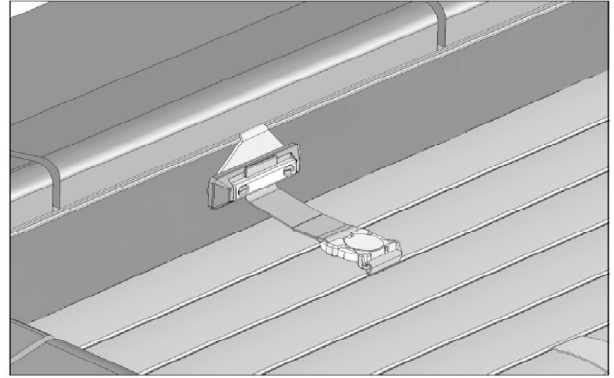
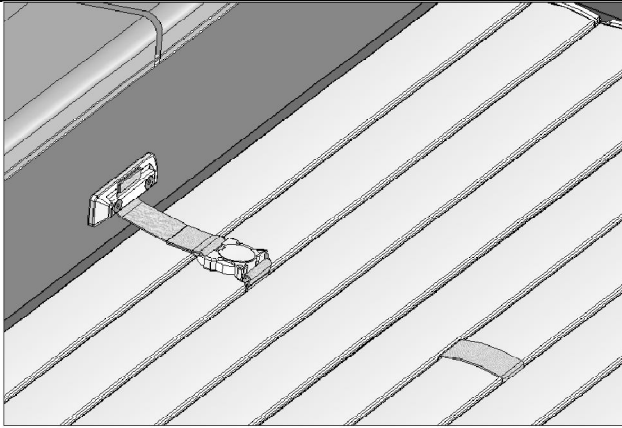
Adjustment of cover closing:

- 1: Turn the switch key to the cover closed position, until the pool is completely closed.
- 2: Adjust the screw for the closing limit switch such as we previously described.

Note:

Screw the adjustment screw (B) in the + direction to stop it later.
 Unscrew the adjustment screw (B) in the – direction to stop it earlier.

BRACKET AND STRAP POSITION

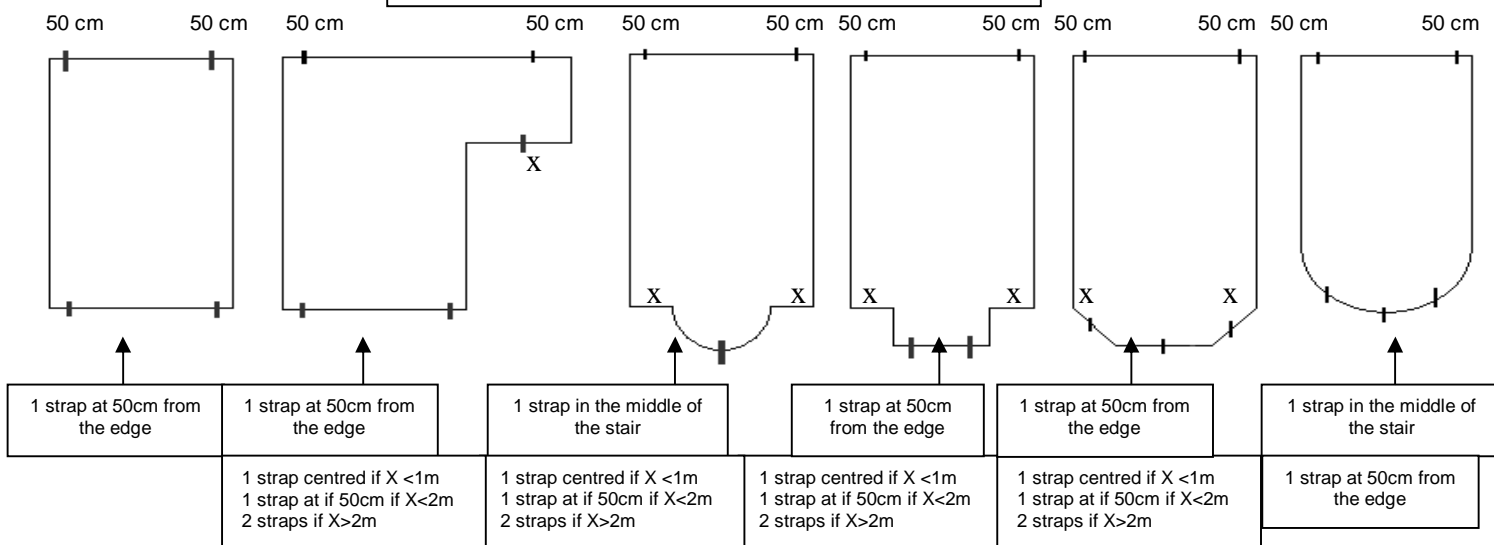


Warning: The position of the brackets is subject to the position of the skimmers in the pool. If these lasts bother the positioning of the safety Brackets, the positioning of the Brackets will be done taking into account the safety Brackets on the slats panels (If necessary move the straps)

POSITION OF THE BRACKETS AND THE STRAPS

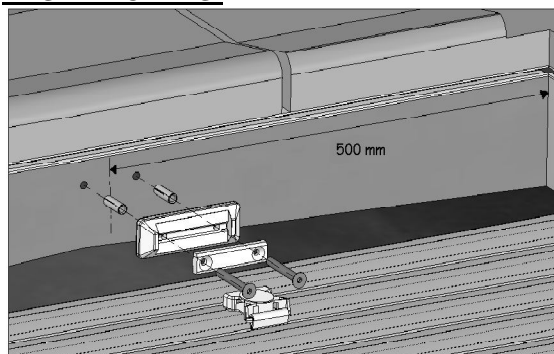
Fixed dimensions for all pools

Dimension width less or equal to 3m = 2 straps
 Dimension width from 3 to 5m = 3 straps
 Dimension width from 5 to 7m = 4 straps
 Dimension width superior to 7 m = 5 straps

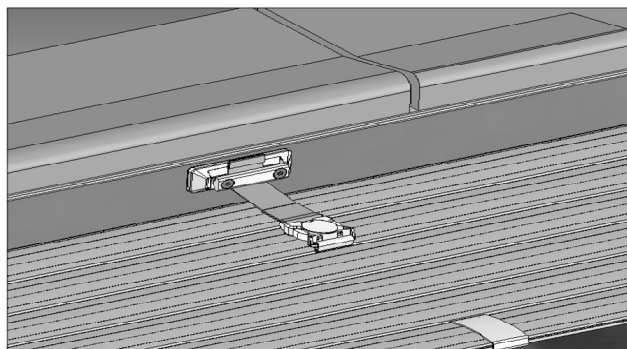


SAFETY BRACKETS POSITIONING:

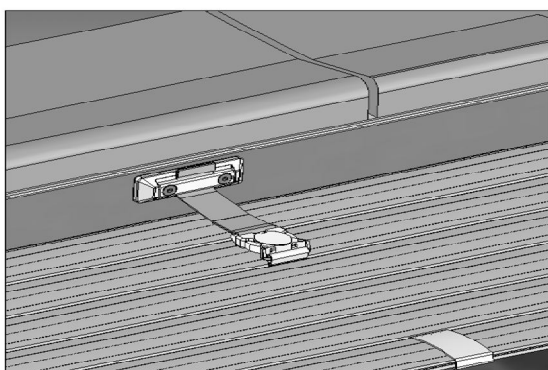
ABS BRACKETS:



1) When positioning the brackets make sure the shaft of the brackets is placed at 500 mm from the edge of the pool.

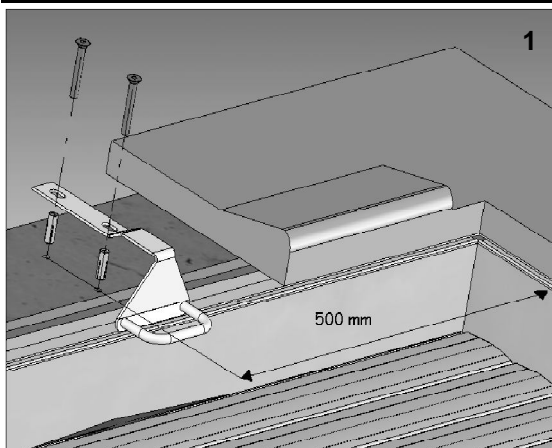


2) Pin the supports. Put the strap between the fixation plate and the bracket and keep the strap tense.

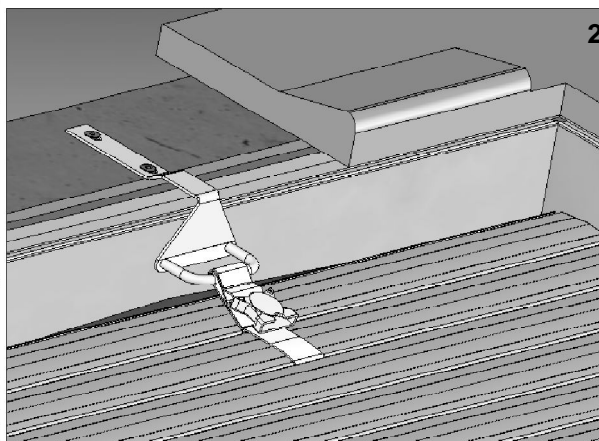


3) Tighten the screws until complete closing of the brackets.

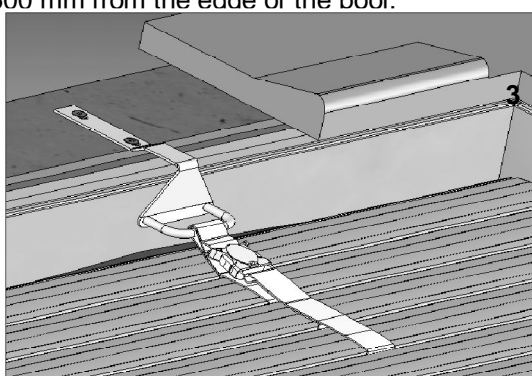
Inox Bracket for model under construction + screws:



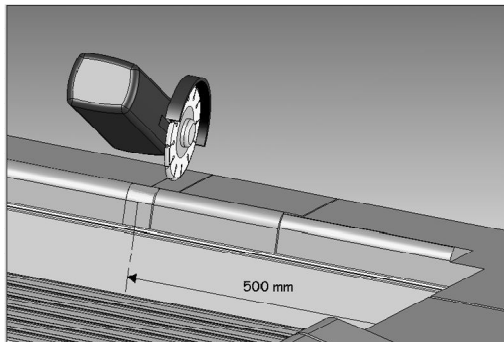
1) When positioning the safety brackets, The shaft of the brackets must be put at 500 mm from the edge of the pool.



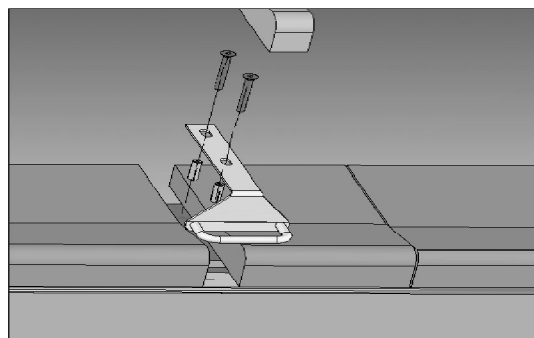
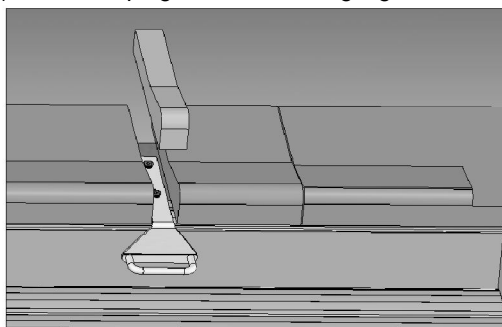
2) Put the pin M8 in the Ø10 wholes.
Screw until complete closing of the brackets.
Put the return safety strap in the brackets.



3) Clip both sides together.

Inox Brackets for renovation model + screws:

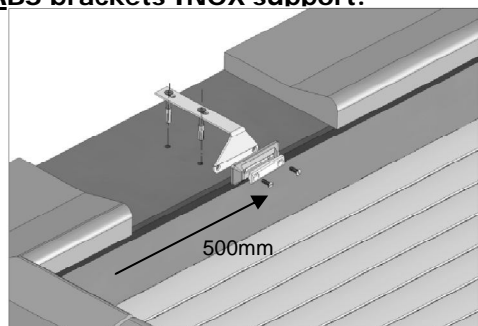
1) Cut the coping stone with a angle grinder



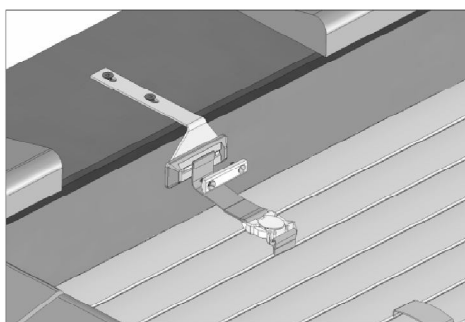
2) Make two $\text{\O}10$ wholes. Place the M8 pin in the wholes. Screw until complete closing of the safety brackets.

Put the straps through as per drawings 2 and 3.

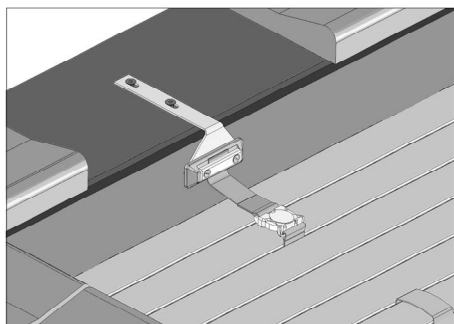
3) Replace the coping stone cut with an adequate product.

ABS brackets INOX support:

1) When placing the safety brackets, The shaft of the brackets must be placed at 500 mm from the edge of the pool.



2) Screw the supports. Put the strap through the fixation plate and the strap. Clip both sides of the strap and keep it tense.



3) Tighten the screws until complete closing of the brackets.



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