

A photograph of a swimming pool in a garden. The pool is on the left, with a concrete deck and a white lounge chair with a blue cushion. A white umbrella is closed next to the chair. In the background, there is a green hedge and a tall cypress tree on the right. Mountains are visible in the distance under a clear blue sky.

INSTRUCTIONS FOR CONSTRUCTION WORKS AFTER POOL IS PLACED

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The logo consists of a stylized blue and white wave or 'S' shape.

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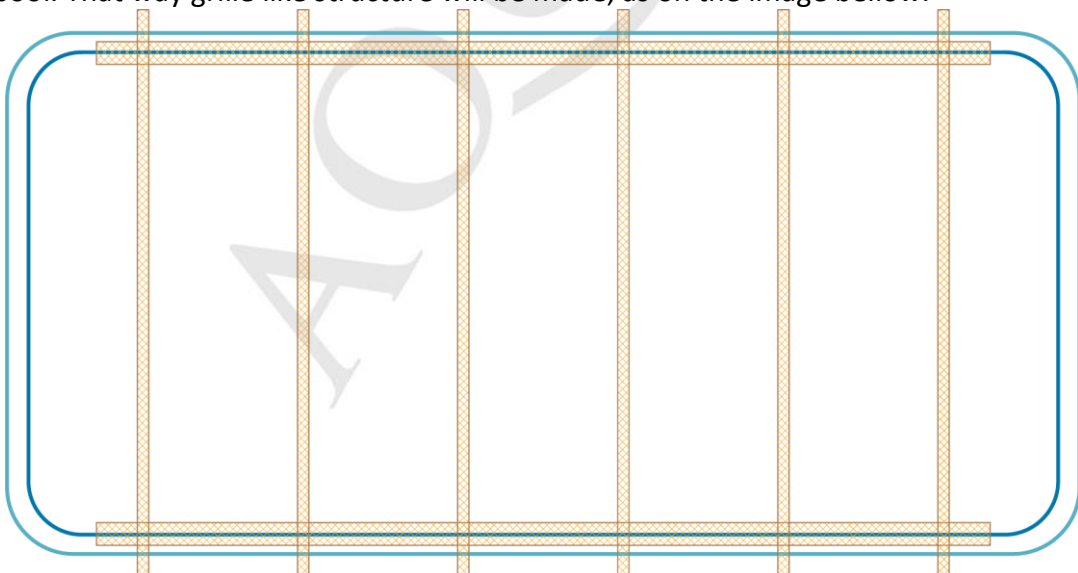
After placement of the swimming pool inside of the construction hole on the reinforced concrete base and after connecting of all pipes and electrical installations between the swimming pool and command room, the second part of the construction works starts. This second part is concreting of the pool which has to be done by client. Those works consist of two phases:

1. Fixation of the swimming pool walls
2. Filling the space between walls of the construction hole and walls of the swimming pool with dry concrete, and in the same time filling of the swimming pool with water.

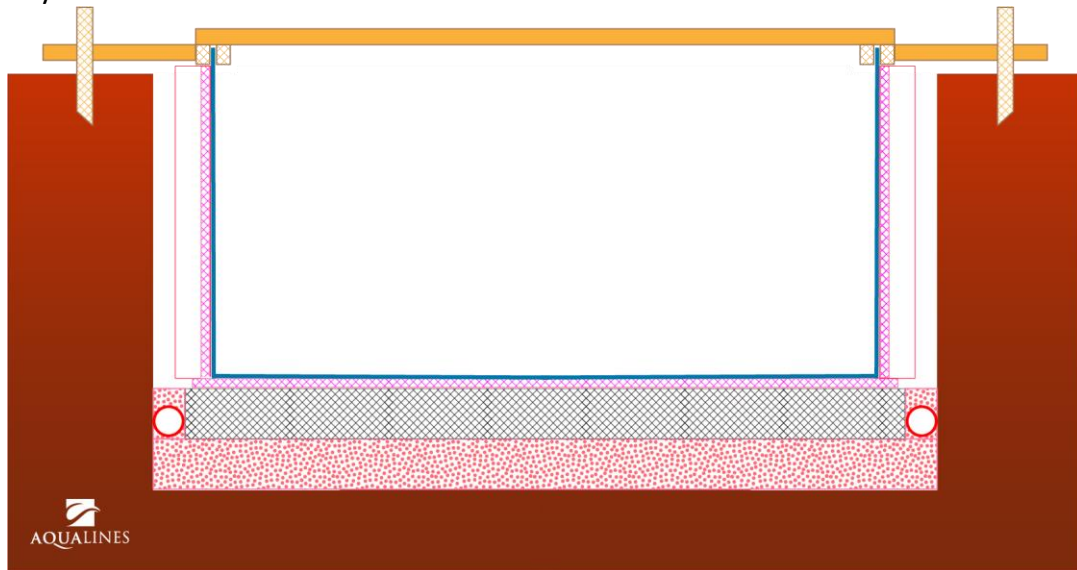
Fixation of the swimming pool walls

Before the swimming pool is filled with water, walls of the pool have to be properly fixated. Fixation has to be done before concreting to prevent deformation of the walls (on the inside or on the outside).

For proper fixation of the swimming pool it's necessary that laths, beams and stakes be as flat as possible and as long as possible. It's necessary to put laths along the flat sides of the swimming pool on the upper edge of the pool, on the inside and on the outside of the wall, on every 1.5-2m. Those laths have to be connected with another laths across the width of the pool. That way grille like structure will be made, as on the image below.



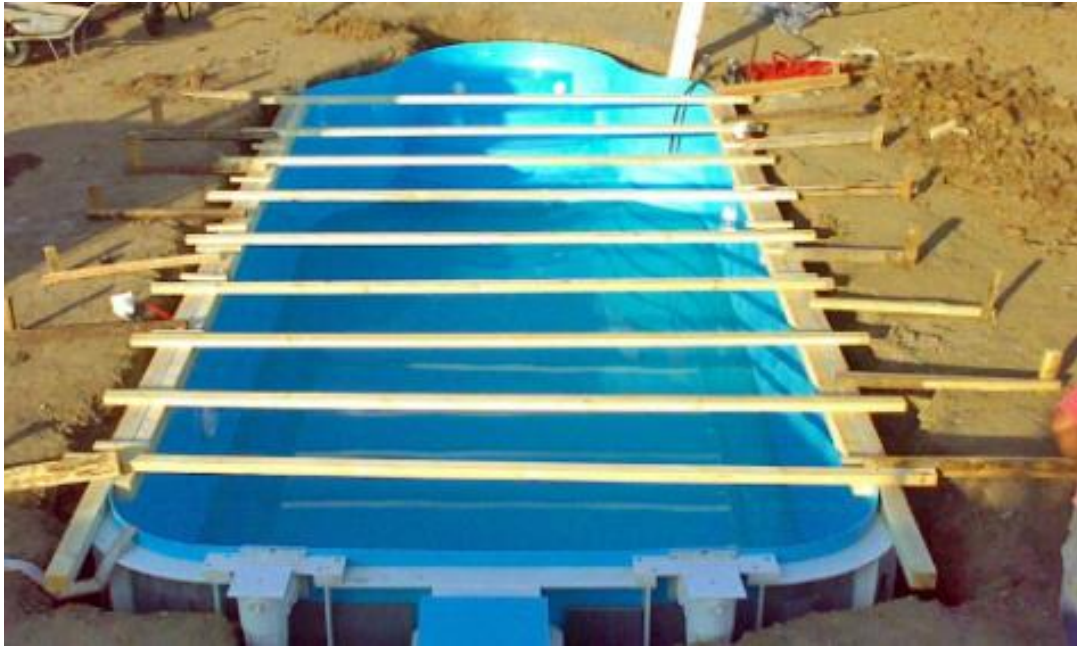
Besides, outside laths have to be fixed with wooden distancers which should be on the one side connected with the stakes which have to be stuck to the ground, and on the other side they should be connected with outside laths.



Shorter sides of the swimming pool also have to be fixated to prevent deformations. In majority of the cases it's enough to put one lath on the horizontal fixation built of the white plastics, and with 2-3 stakes and distancers make those sides straight, on the same way as the longer one.



When is properly fixated (which can be inspected by visual check) the swimming pool can be filled with water. When pool is filled with 30-40cm of water, then concreting of the space between walls of the construction hole and walls of the swimming pool with dry concrete can start.



Filling the space between walls of the hole and walls of the swimming pool with dry concrete, and in the same time filling of the swimming pool with water

Concrete that is used for filling the space between swimming pool and construction hole is a dry concrete. For this kind of concrete, cement and sand of 2-5mm granulation have to be used. Relation between cement and sand can be from 1:3 to 1:5.

Dry concrete must be prepared in a small concrete mixer, because truck concrete mixer can't prepare that kind of dry concrete. Concrete has to be poured gradually around the swimming pool (one wheelbarrow per two chambers which are made by vertical fixators). Pouring concrete into the space between ground and swimming pool has to be done with care to avoid damaging pipes and other visible equipment.

In the parts where there are pipes, concrete must not be poured directly from the wheelbarrow, but it has to be done slowly with a shovel, to avoid damaging the pipes. When in every chamber of the pool (space between two vertical fixators) is poured half of the wheelbarrow of the concrete, concreting starts from the beginning.

During concreting the swimming pool can be filled with water. It's necessary that level of the water be for 10-20cm higher than the level of the concrete which is poured between ground and pool. That difference between those two levels has to be maintained up to top of the swimming pool, to have balance between pressure of the water and pressure of the concrete. Swimming pool has to be filled with water up to half of the skimmer height, which is 8-10cm below the top of the pool. At the end of concreting, levels of the water and

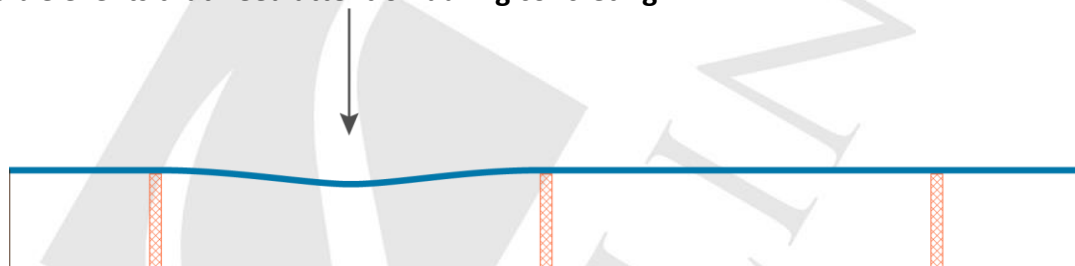
concrete will be even. During concreting it's necessary to have constant visual inspection to avoid deformations (in a case of bad fixation) and to immediately resolve any issues, because after concrete become mature those problems can't be fixed.

Concrete has to be poured up to white horizontal fixation which is 8-10cm bellow the top of the pool. Space above horizontal fixation was leaved for the arrangement of the swimming pool surrounding (tiles, stone, stamped concrete, decking and likewise).

Lids of the distribution boxes of the lights, skimmer, air regulation for the hydromassage and turbo jet, and lids of the system for automatic water replenishment, have to stay on the level of the pool surrounding, to be accessible for the maintenance.

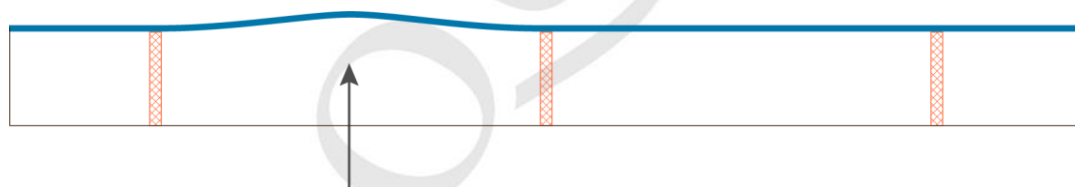
Laths which are used for the fixation of the swimming pool walls must not be removed after concreting is done for at minimum 24h.

Possible events that need attention during concreting



During concreting wall deformation that goes toward ground can happen between 2 vertical fixators. That kind of deformation can occur if concrete isn't set (compressed) so water have higher pressure then concrete and push walls toward concrete.

In this case it's necessary with some stick or lath to push concrete to compress more in that part where deformation was occurred. Compressing of the concrete has to be done slowly to avoid damage of the installations and equipment.



During concreting wall deformation that goes toward water rarely can happen between 2 vertical fixators. That kind of deformations can occur if the poured concrete is too wet and have higher pressure on the walls then water.

If that kind of deformation occurs, someone has to enter into the pool and with one table of the Syrodur push that deformation toward concrete to push away concrete and correct that deformation. In that situation surplus of the wet concrete should be removed and instead dry concrete should be poured on the same place.

If during the concreting you have anything that you don't understand, make sure to contact us.

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