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**OVERFLOW POOLS**  
**INSTALLATION GUIDE**





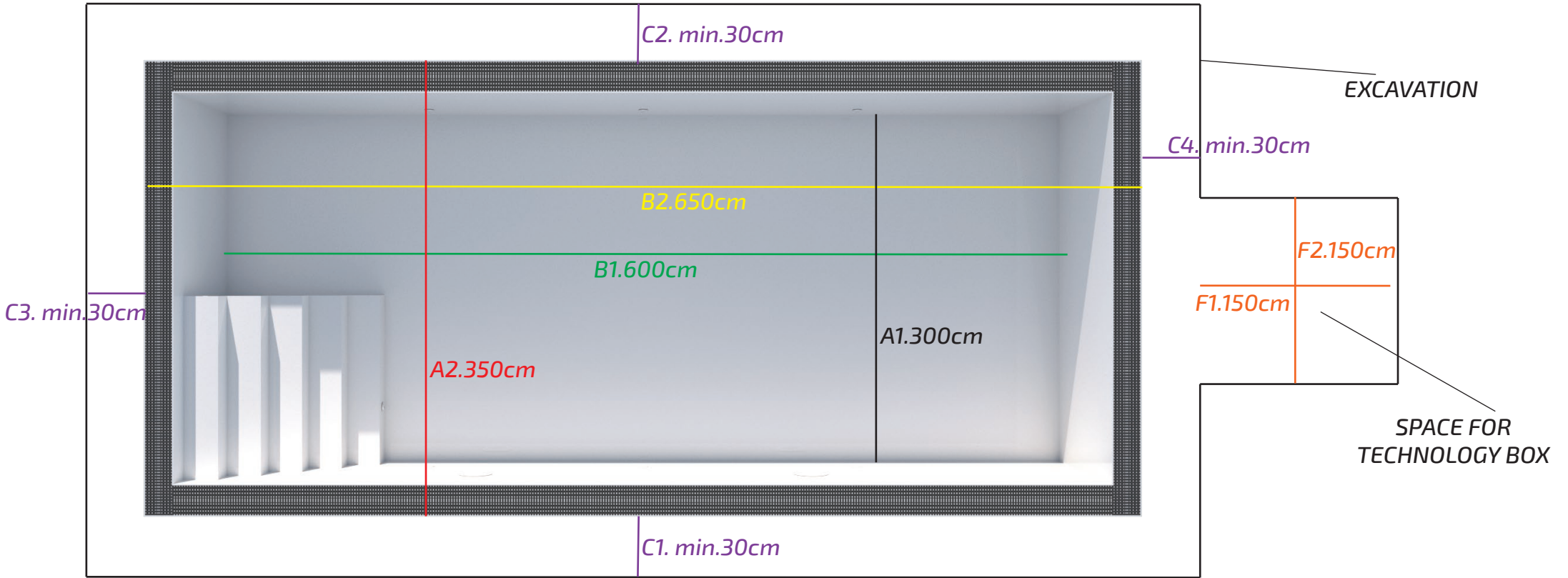
*Thank you for choosing a pool from PoolDo company. Let's go through step by step how to properly prepare the space for your new pool. To ensure the pool's installation is done correctly please follow every step mentioned in this guide. If you have any questions, please do not hesitate to contact us and we will be happy to help you*

**INSTALLATION GUIDE CONTENT**

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# OVERFLOW POOLS INSTALLATION GUIDE

## SIZE AND DEPTH OF EXCAVATION

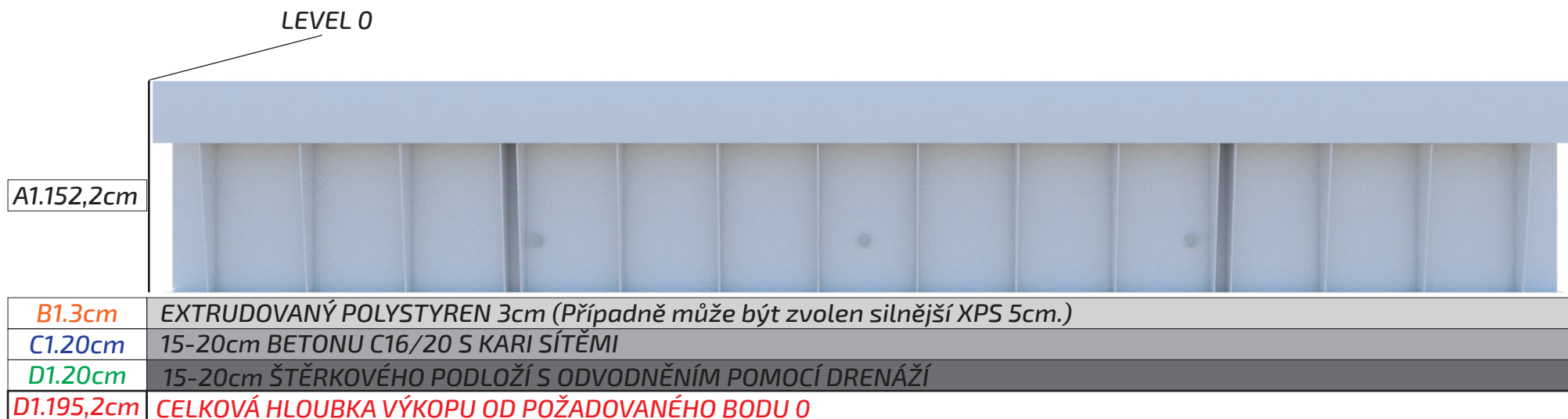


POOL MEASUREMENTS	SIZE:
A1. INNER WIDTH	300cm
A2. OUTER WIDTH	350cm
B1. INNER LENGTH	600cm
B2. OUTER LENGTH	650cm
C1. + C2 + C3. + C4.	30cm minimum
F1. + F2. FILTRATION BOX 120X120	150x150cm minimum

For the sides C1, C2, C3, C4 it is necessary to add 30 cm for each side. In the middle of the short side of the pool

\*In case the swim jet is installed in the box behind the pool, it is necessary to extend the length F1 for at least 180 cm in the direction from the pool.

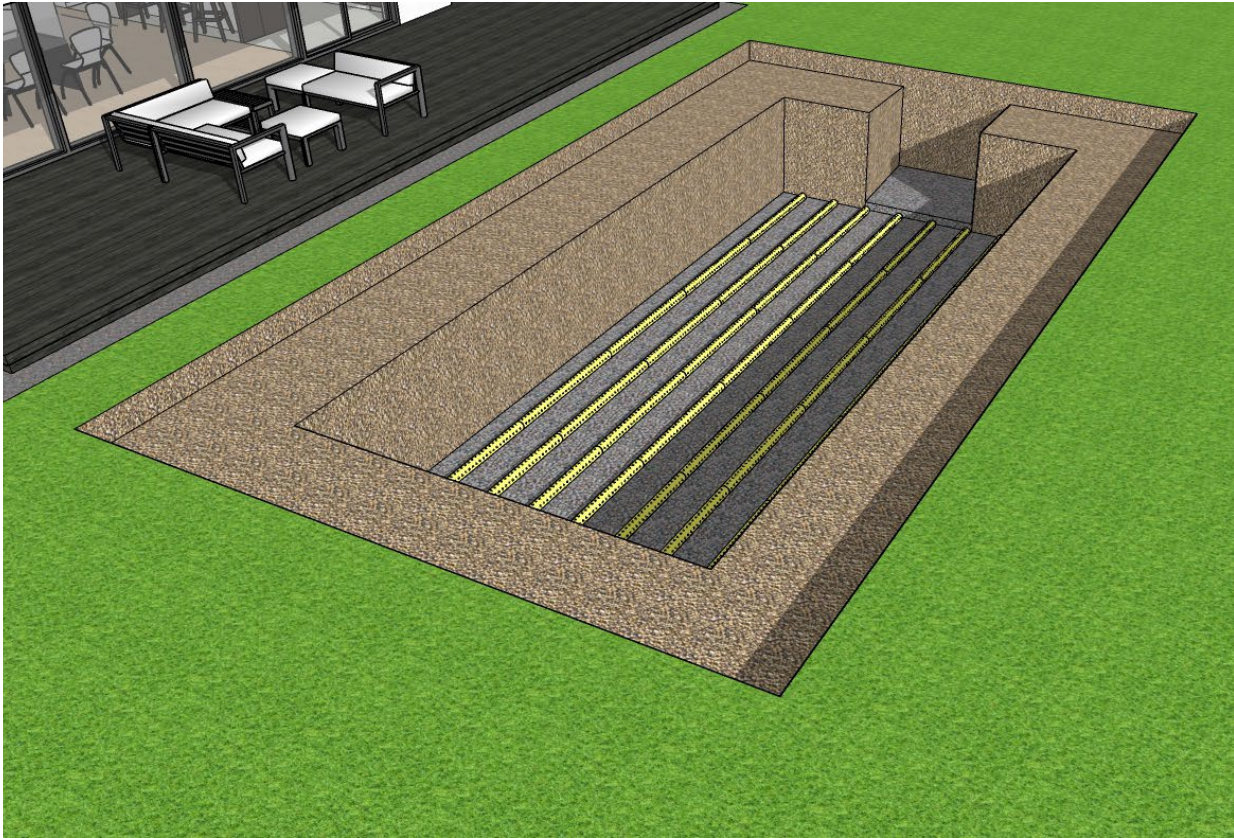




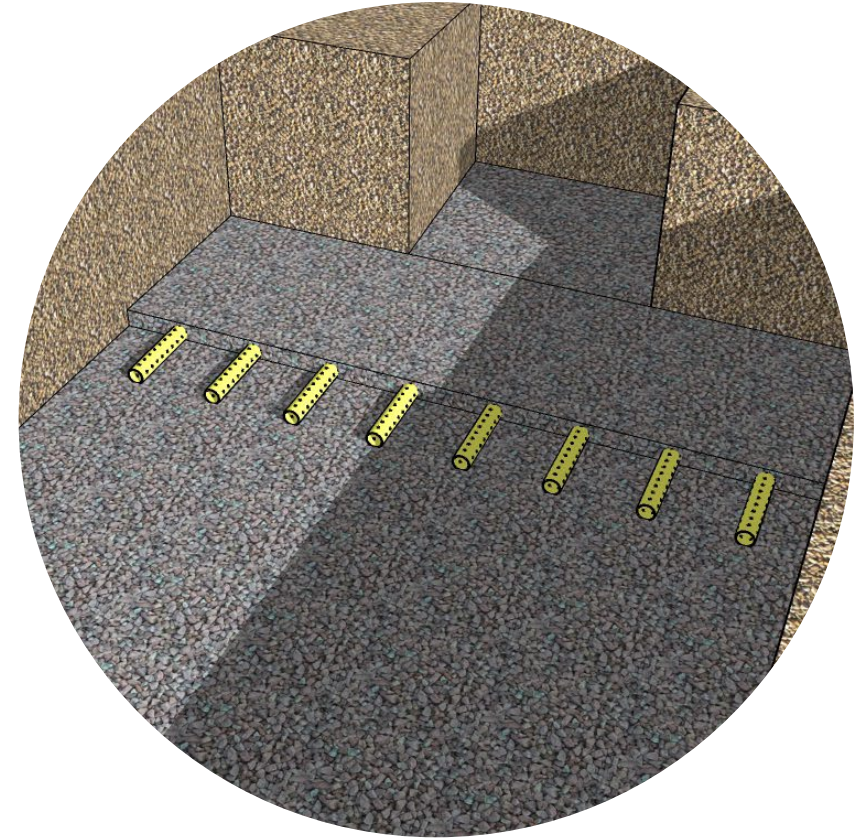
Excavation depth calculation to level 0	SIZE:
INNER POOL DEPTH	150cm
OUTER POOL DEPTH (inner depth 150 cm 0,6 cm bottom thickness 1,6 cm overflow channel tilt)	152,2cm*
OUTER POOL DEPTH + 3CM EXTRUDED POLYSTYRENE	155,2cm
OUTER POOL DEPTH + 3CM EXTRUDED POLYSTYRENE + 20CM CONCRETE BASE	175,2cm
OUTER POOL DEPTH + 3CM EXTRUDED POLYSTYRENE + 20CM CONCRETE BASE + 20CM GRAVEL LAYER	<b>195,2cm</b>

The depth of the excavation is calculated from the top edge of the pool which is marked as level 0.

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## DRAINAGE OF THE BASE PLATE

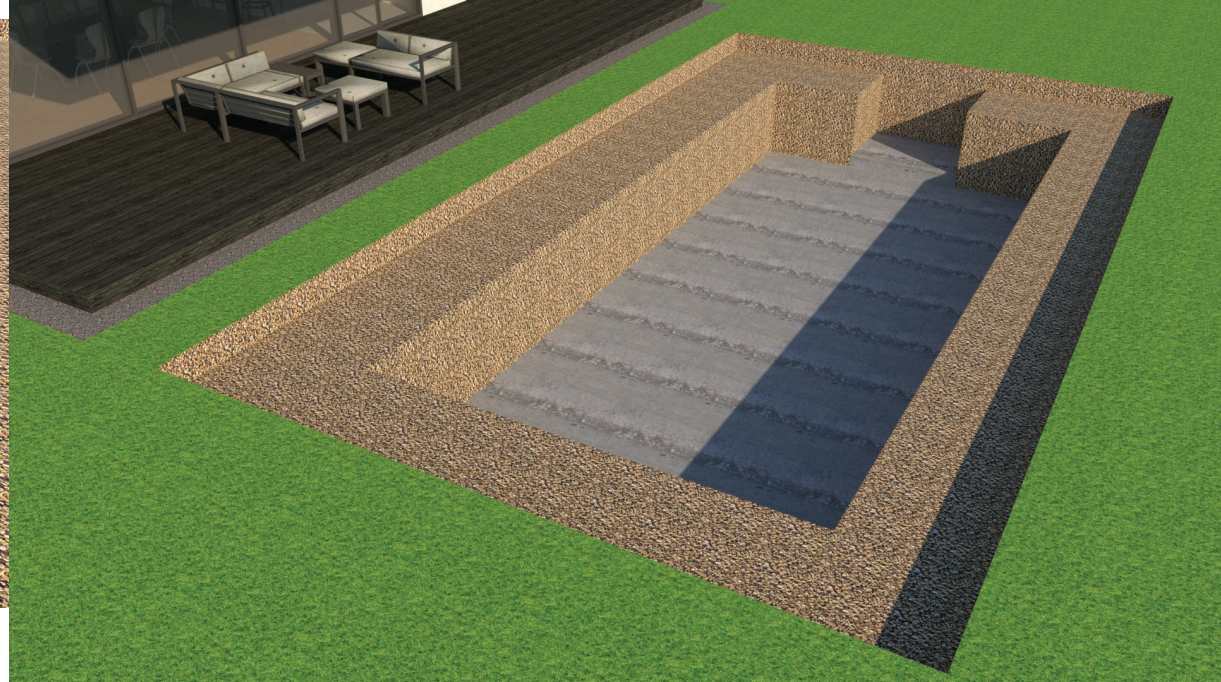
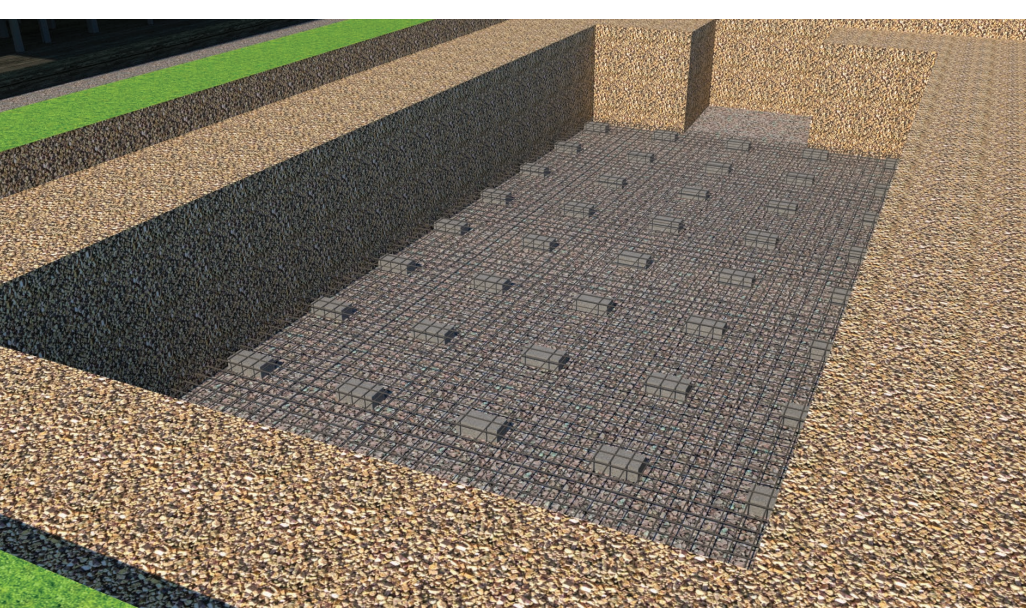


The gravel bedrock must be at least 20 cm high to prevent movements or drops of the concrete base plate. To the excavation pour about half of the gravel (12cm) fraction 8/16 and really choke with a vibrating plate (the thickness of the gravel base after chocking should be aprox. 10cm.) Then we lay a drainage pipes DN50 about 50-60 cm apart to ensure sufficient drainage under the base plate. Drainage pipes need to be connected to the waste, water drainage or to a shaft with an automatic submersible pump that will drain any groundwater or rainwater. After correct installation of the drainage system, we can completely cover the pipes with the other half of the gravel and carefully choke it again, so that the drainage pipes were not damaged. In the case of an overflow pool, it is necessary to maintain the flatness of the base plate +/- 2 mm. Uneven water flow to the overflow channel can appear in case the requested flatness is not followed.



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## CONCRETING THE BASE PLATE

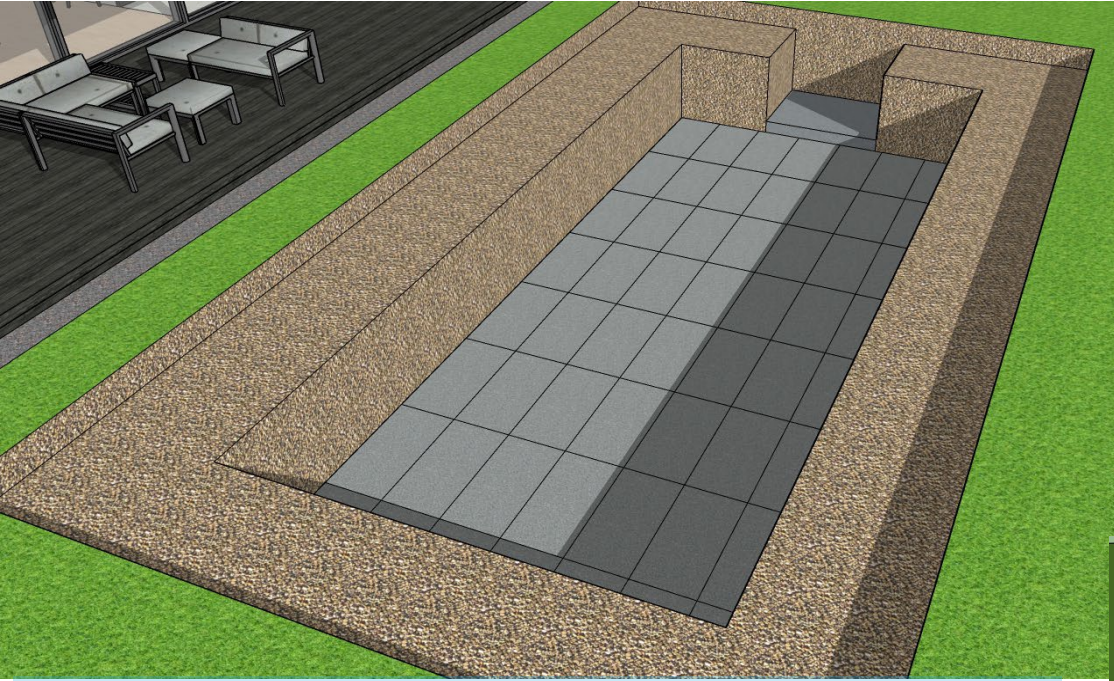


*In the case of an overflow pool, it is necessary to maintain the flatness of the base plate +/- 2 mm.*

*The concrete base plate must be at least 20 cm high to prevent movements or slumps of the pool. Concrete type: in fraction with smaller aggregate  $D_{max.8} / 16mm$  and strength at least C20 / 25. Before the concreting starts it is necessary to prepare the reinforcement nets with a thickness of 6 mm with a maximum mesh of 10 cm x 10 cm. The reinforcement net should be placed about halfway (10cm) height of the base plate, underlaid and tied so that there is no movement of the reinforcement bars. Now we can carry out the concreting itself, entrust the concreting only to a qualified person with experience in concreting of the concrete base plates. Carry out the concreting carefully in the required quality and in the flatness of +/- 2 mm.*



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Attach 30 mm XPS extruded polystyrene to the base plate with the help of mounting foam or adhesive tape, polystyrene must always be under the whole swimming pool, including the ribbing.

## PLACING THE POOL

Place the pool into the excavation using a crane with a trained and authorized crane operator, which has experience with manipulation with pools. The pool has special reinforced ribs, for which the pool can be lifted. As a safeguard it is always necessary to use the straps and undercarriage the pool to prevent damage. Never lift and place the pool with wooden spacers that are designed only for transport of the pool and don't serve as lifting points.

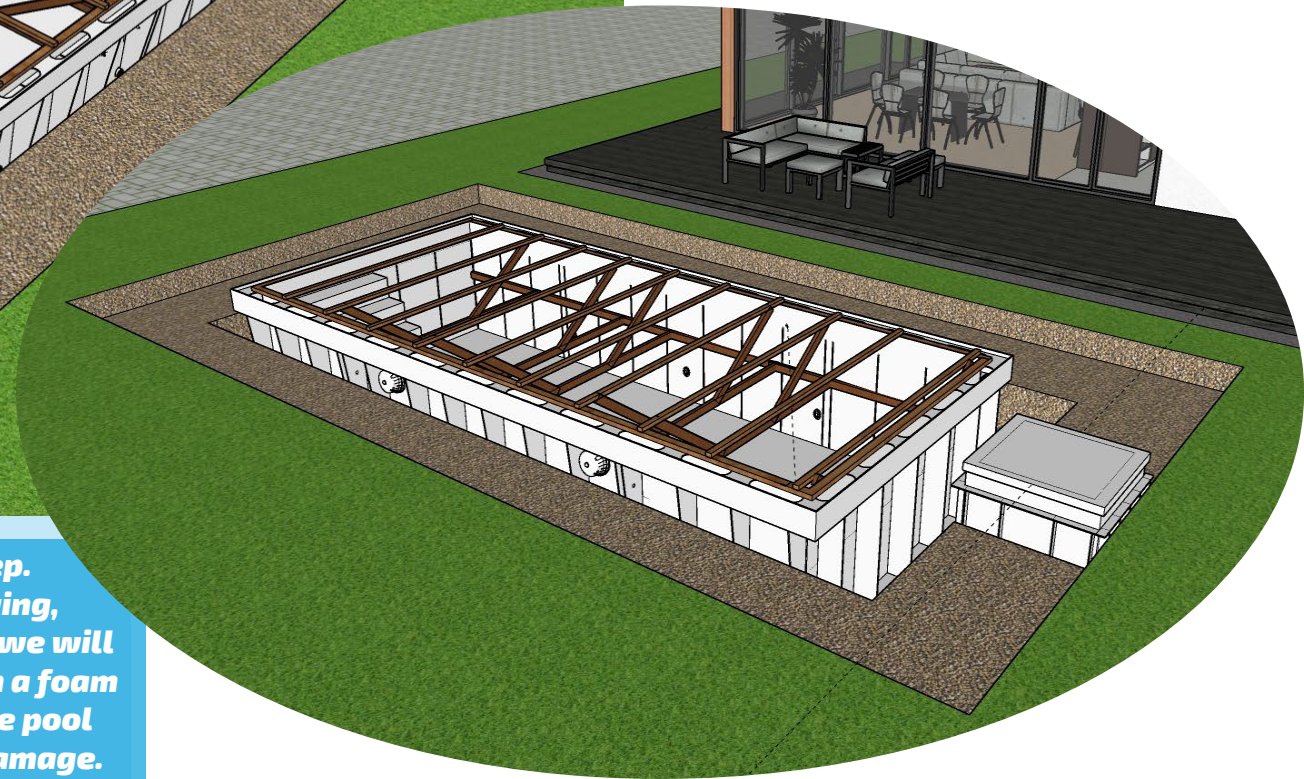


The pool must always be placed using a fully revised technique and stored according to regulations on handling heavy loads. Our company does not provide crane work. (\*Unless stated otherwise.) The company providing the crane work is obliged to use properly revised and compliant facilities and engagements. To store the pool, it is always necessary to request from the company providing pool storage: The so-called quad hook and textile ties (4 pcs - each ideally 4 m.) - corresponding to the weight of the pool, which we will tell you on request.



# OVERFLOW POOLS INSTALLATION GUIDE

## BRACING THE POOL

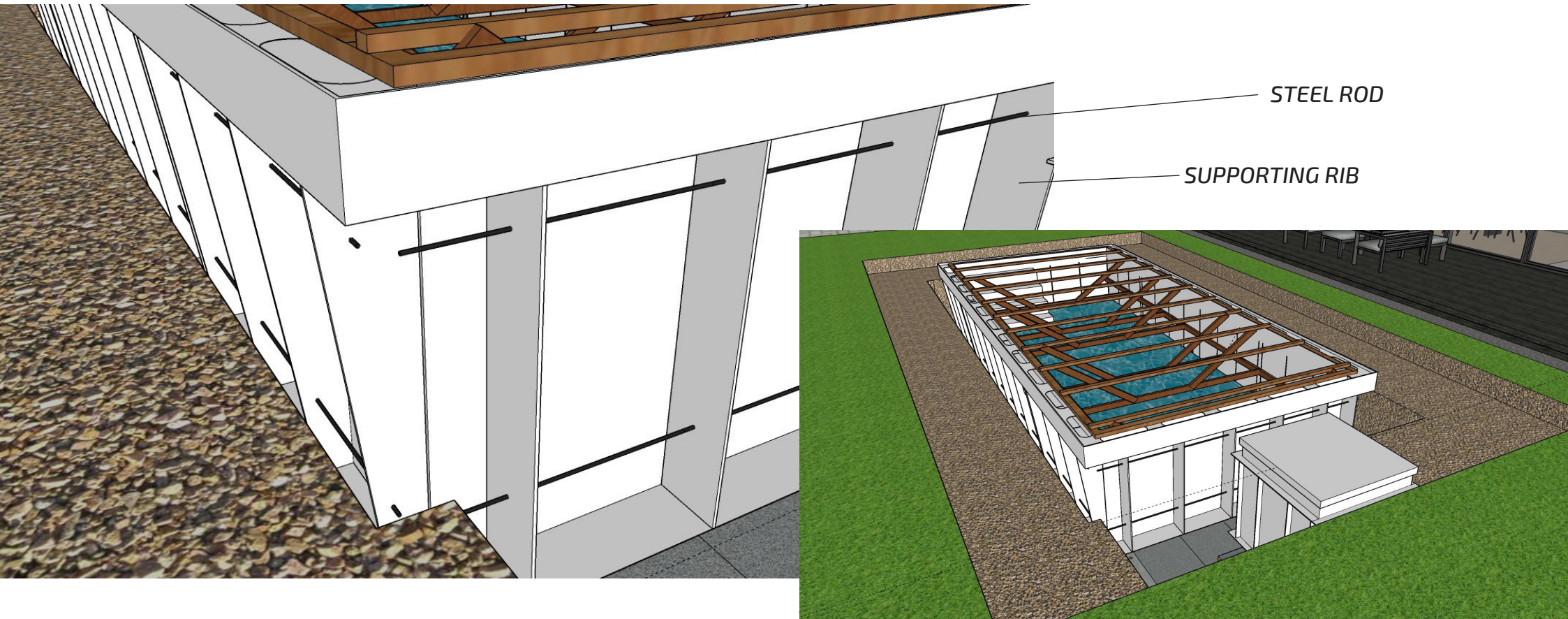


**Bracing the pool before concreting is very important step. The bracing must be done exactly according to the drawing, otherwise the skeleton can deform. Before application, we will pack the prepared beams with a size of 60 mmx60 mm in a foam foil or similar material to prevent damage/scratch of the pool walls. The corners of the pool must be free to prevent damage. The beams which are placed on the pool collar must always be at least 5 mm higher than the edge of the pool itself to avoid deformation. (See detail 1.) For inspection please also measure the dimensions, flatness and perpendicularity of the pool according to the supplied drawing.**



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## REINFORCING THE POOL



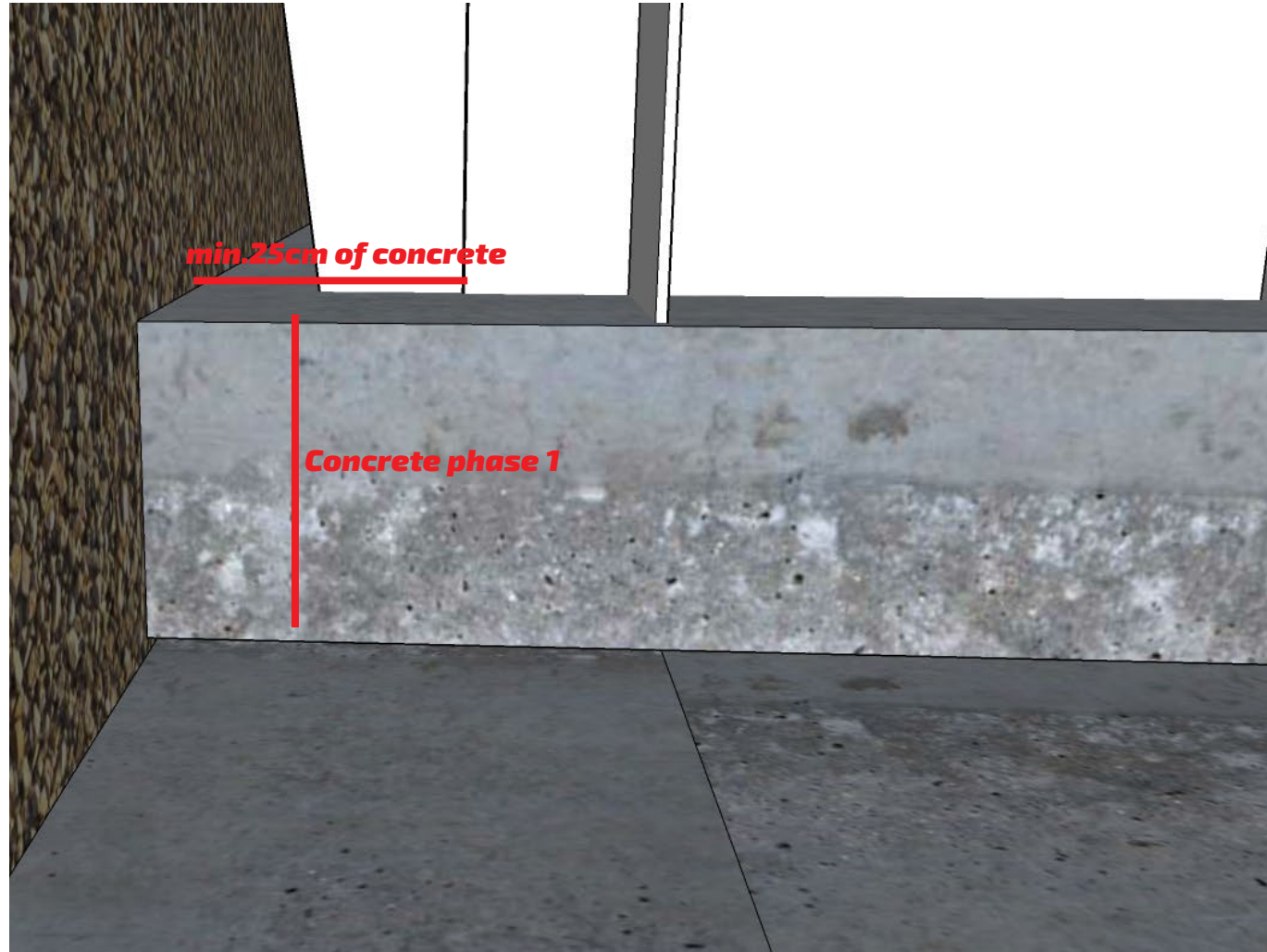
*When the bracing is finished and checked, the pool can be filled with water up to 35-40cm (above the first step). By the time the water fills, the steel rods should be placed through the ribs so that the pool is connected to the surrounding concrete and is sufficiently strengthened. Into each rib pre-drill 2 holes with a size of 8mm: the first 20cm from the top collar and the second one 25cm from the bottom, so that we can pierce the reinforcing wire with a thickness of 6mm. We perform reinforcement around the entire pool in two rows. Now, once again, we check the flatness and perpendicularity of all the walls, making sure that the spread is sufficiently locked and there is no risk of any movement during concreting.*



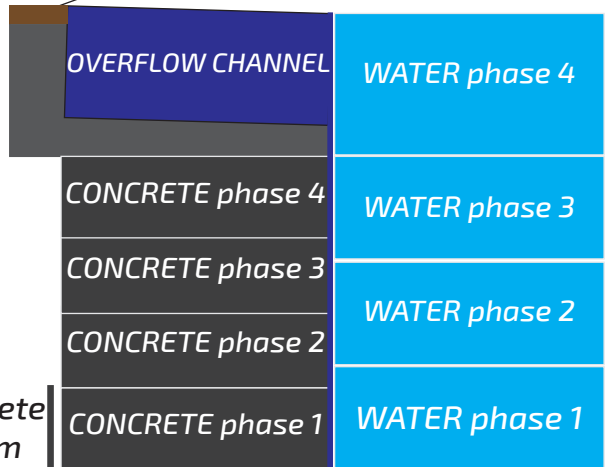
# OVERFLOW POOLS INSTALLATION GUIDE

For concreting the pool sides never use the concrete from MIX! Always use only so-called dry concrete of hardness C20 / 25. The concreting takes place in phases - 4x30cm and last 25cm in the case of 5cm paving is planned to be place around the pool. Before each step starts it is necessary to pump more water to the pool so the water level is always 35-40 cm higher than the concrete on the other side of the pool wall. This balances the pressure and ensures flatness. If unevenness is found, it is necessary to stop concreting and secure the flatness by stronger bracing or balancing the pressures to the pool sides. The minimum thickness of concrete is 15cm. On each side of the pool.

# CONCRETING AROUND THE POOL



FINAL SURFACE (eg.TILES)

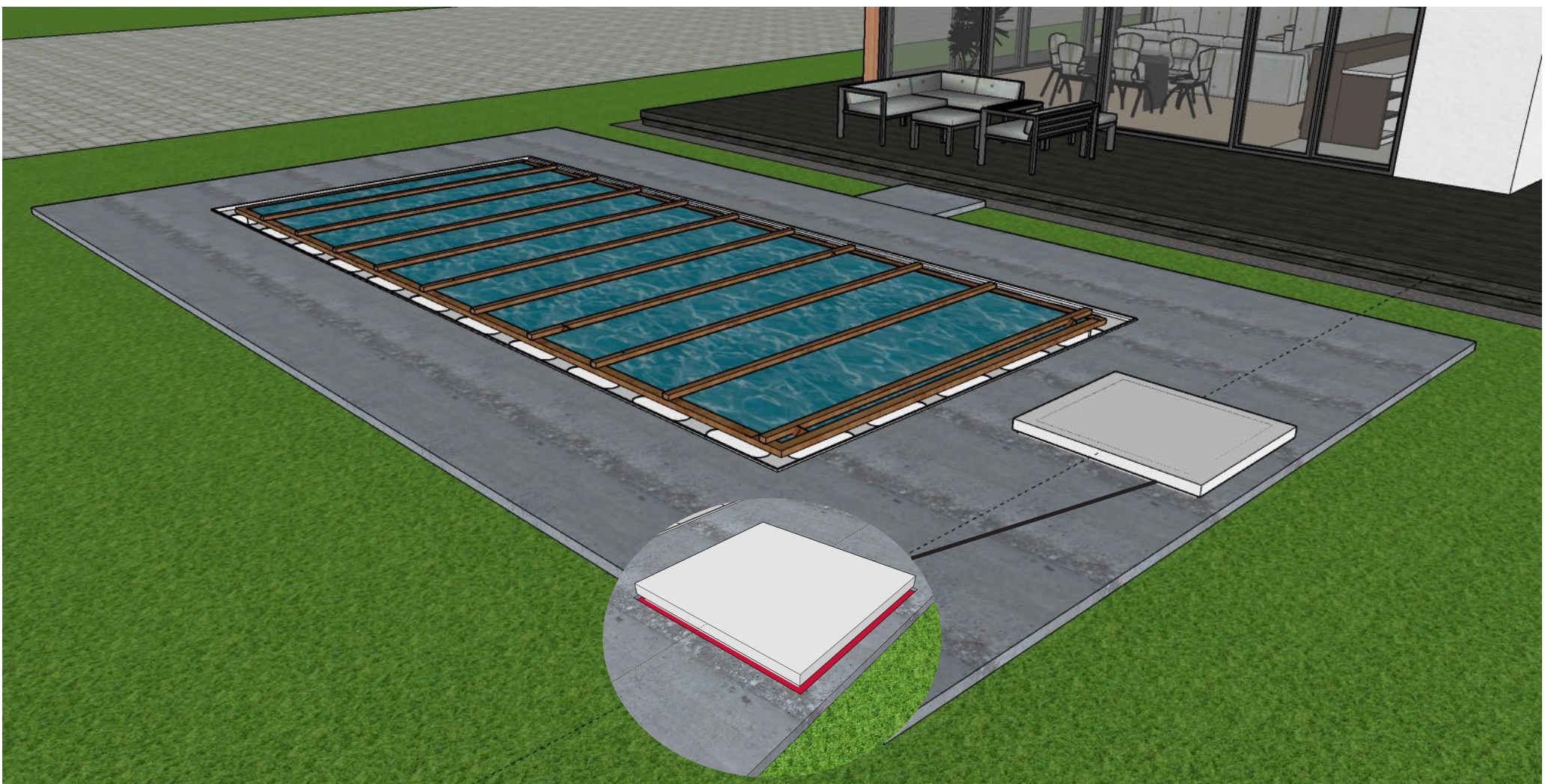


concrete  
30cm

water level  
30-35cm

When concreting, it is necessary to pay attention to the pipes around the pool, concrete and other objects must not hit/tear off glued joints. (We recommend to carefully sprinkle the piping at first). During concreting, we recommend to check all joints around the pool and in the tech box.



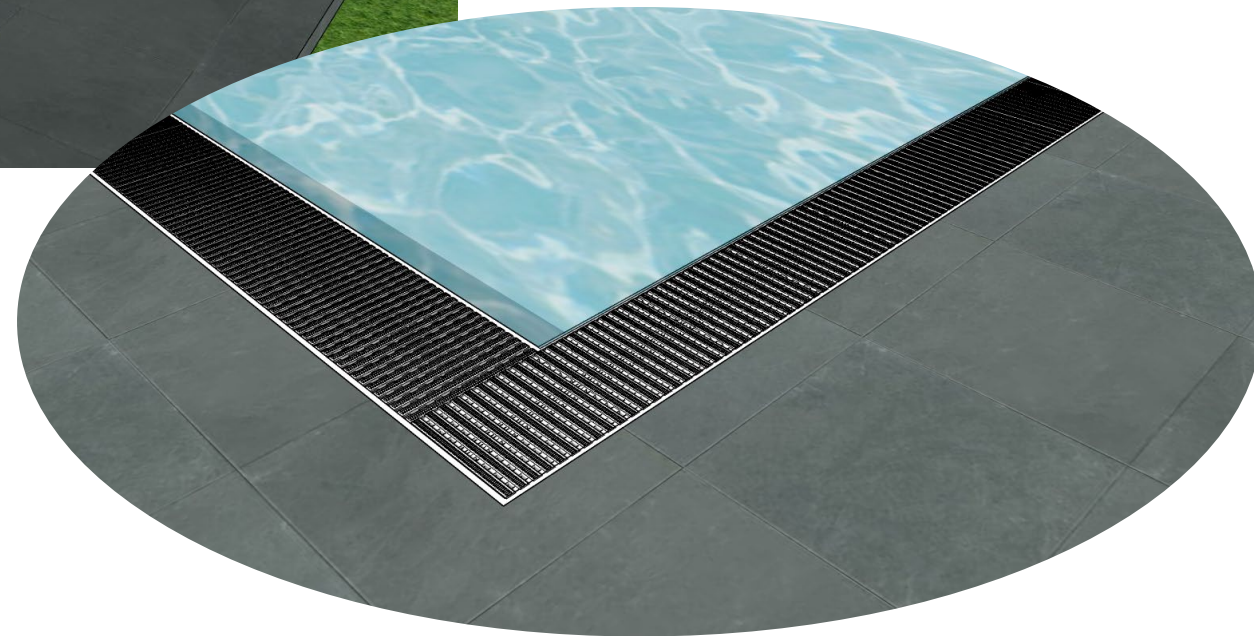
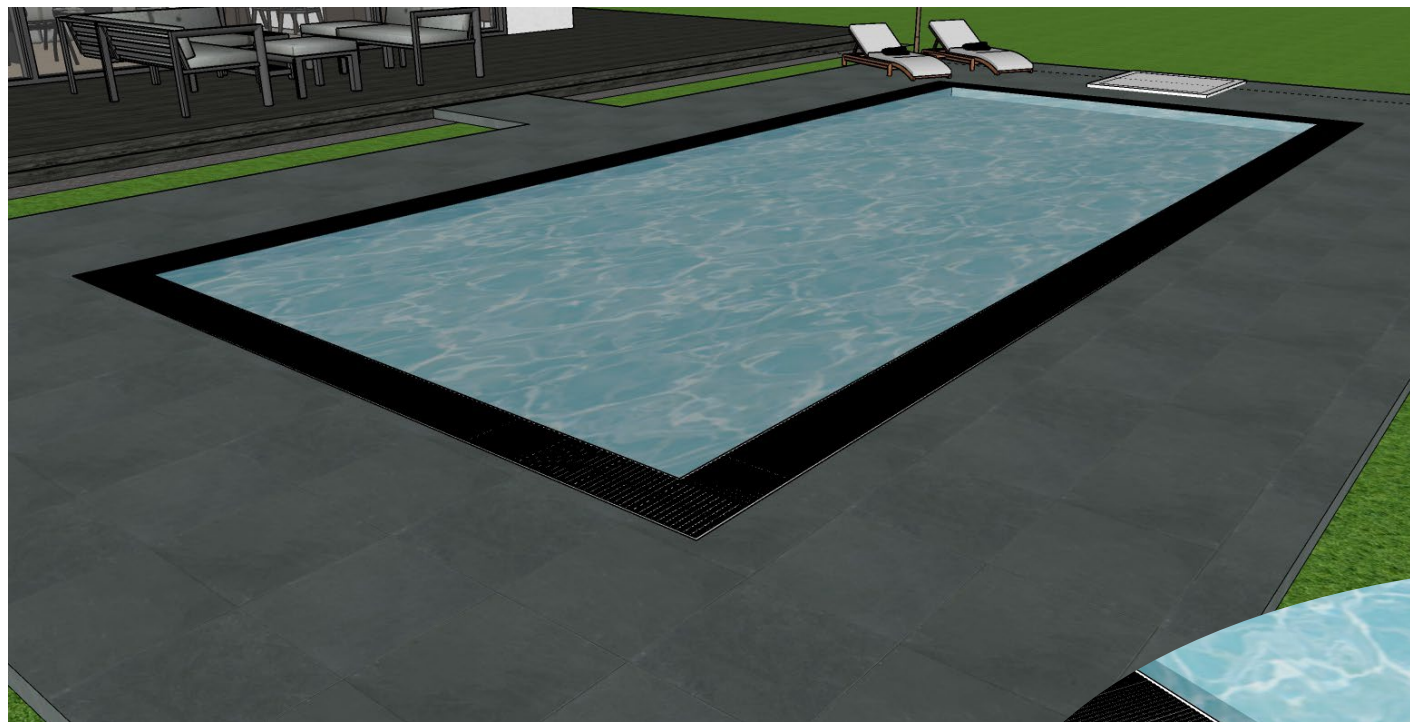


Concreting the top plate around the pool can be done at once, the overflow channel must be concreted min 30 cm. It is necessary to reinforce the concrete slab around the pool with steel net with meshes of 10x10 cm and at least 5 mm thick. The thickness of the top plate should be at least 15 cm in order to be ready for installation of rails for swimming pool enclosure.



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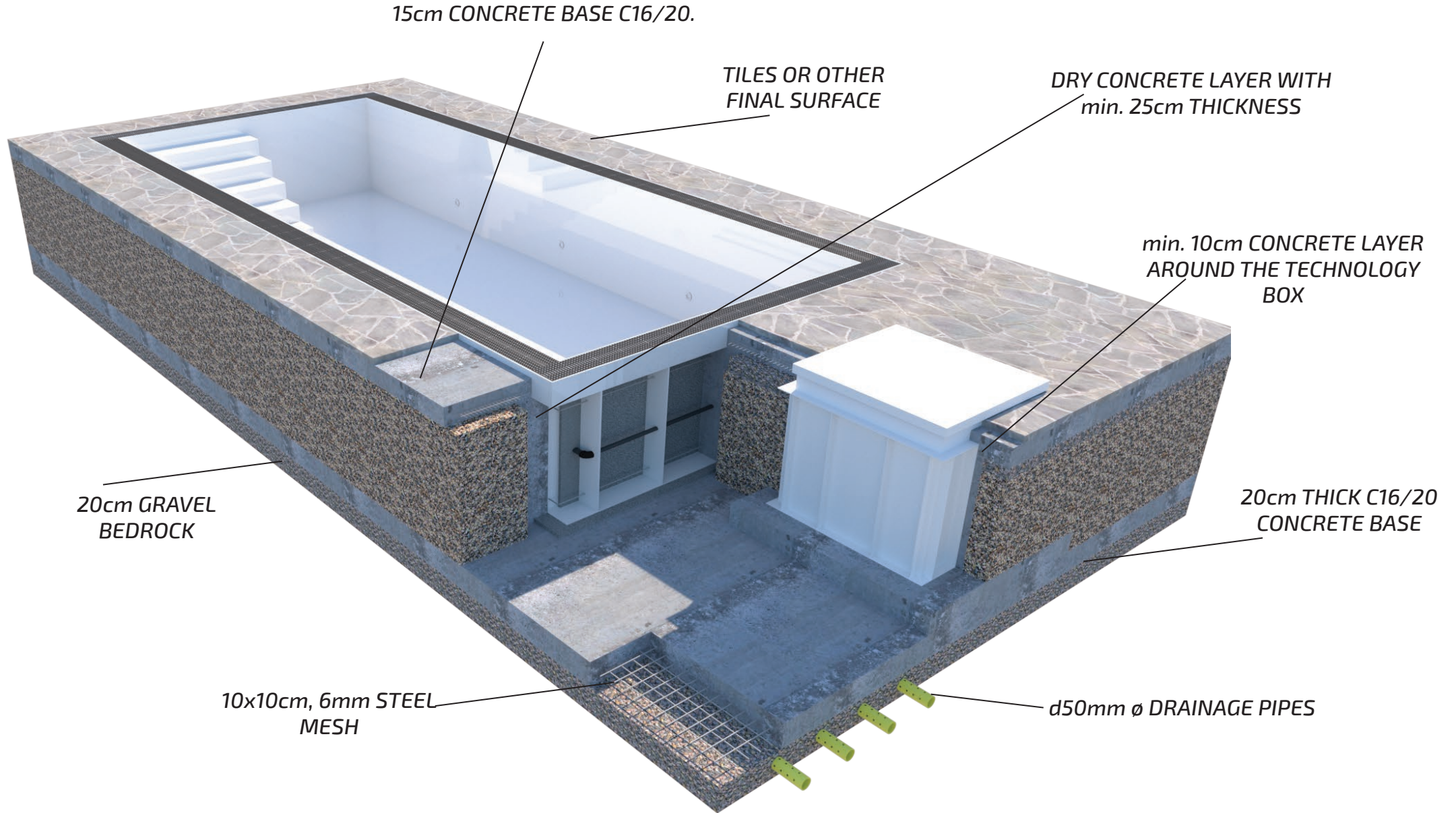
## POOL SURROUNDINGS



*The final surface finish around the pool.*

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## FINAL CUT





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**NOTES**

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