

FIBERGLASS POOLS INSTALLATION GUIDE





Thank you for choosing a pool from my pool direct.

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.

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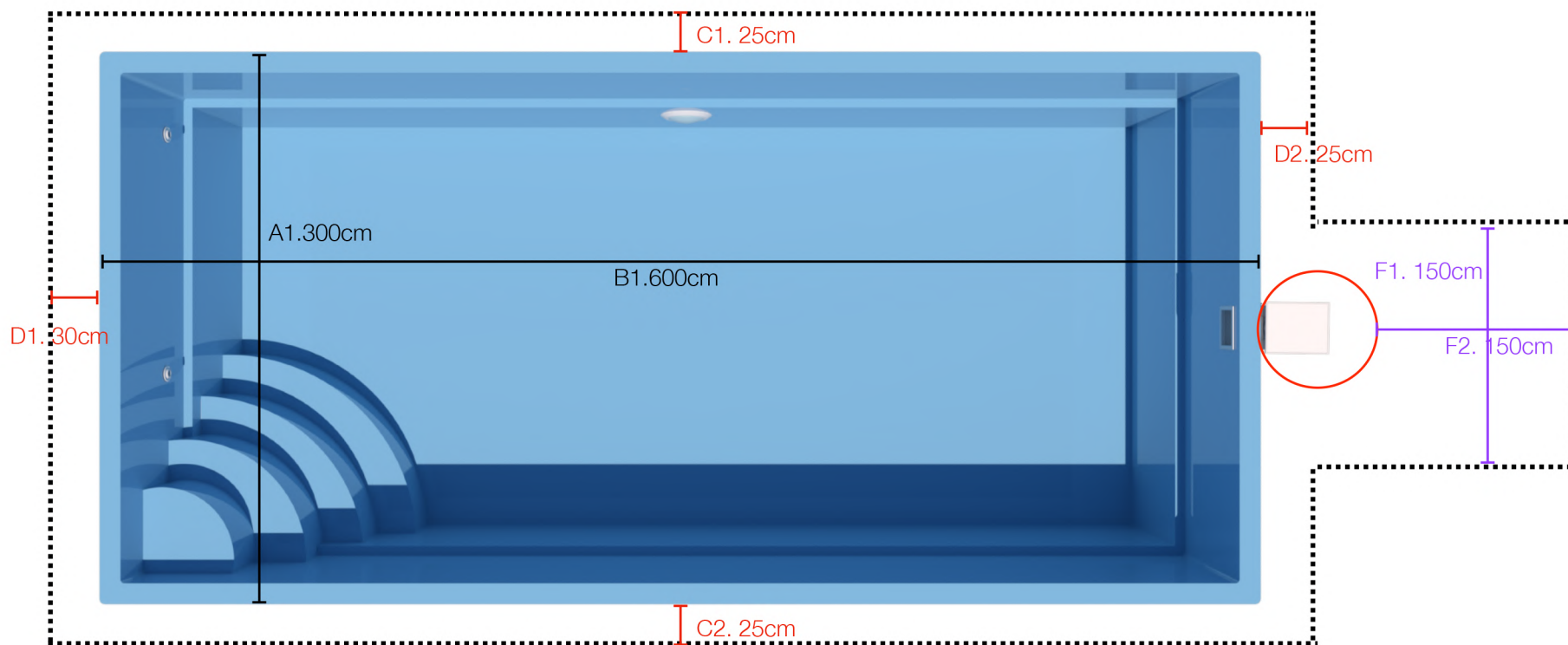
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If you have any questions or doubts please do not hesitate to contact your distributor or us and we will be happy to help you.

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SIZE AND DEPTH OF THE EXCAVATION



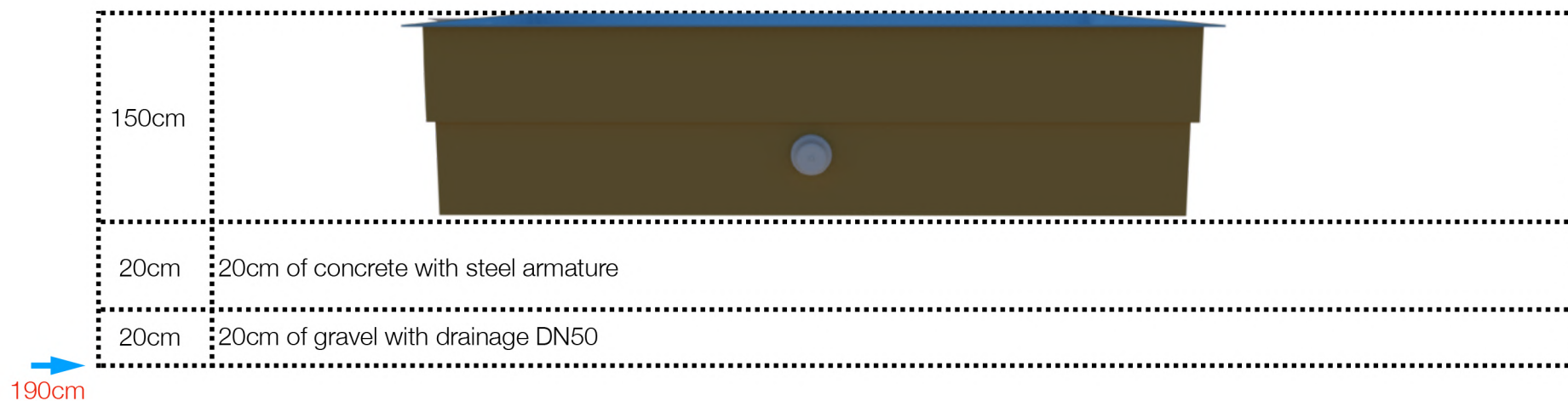
POOL DIMENSION	DIMENSION:
A1. Outer width	300cm
B1. Outer length	600cm
C1 + C2	25cm minimum
D1 (side with circulating jets)	30cm minimum
Skimmer connection	75cm minimum
F1. + F2. Technology box (120x120)	150cm minimum

Here we are showing example of installation of the pool with dimensions of 300x600x150 cm and the filtration box with dimensions of 120x120x120.

For long sides C1 + C2 it is always necessary to add at least 25 cm to each side to get the width of the excavation. On the short side D1 the minimal width of the excavation is 30 cm larger, so the circulating nozzles can be connected. On the opposite short side of the D2 only a 25 cm larger excavation is enough. On one side, where the skimmer is placed, make the excavation at least 50cm wide, so the skimmer can be connected to the technology.

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SIZE AND DEPTH OF THE EXCAVATION



The depth of the excavation is calculated from the upper edge of the pool.

ROZMĚR:

Inner depth of the pool

150cm

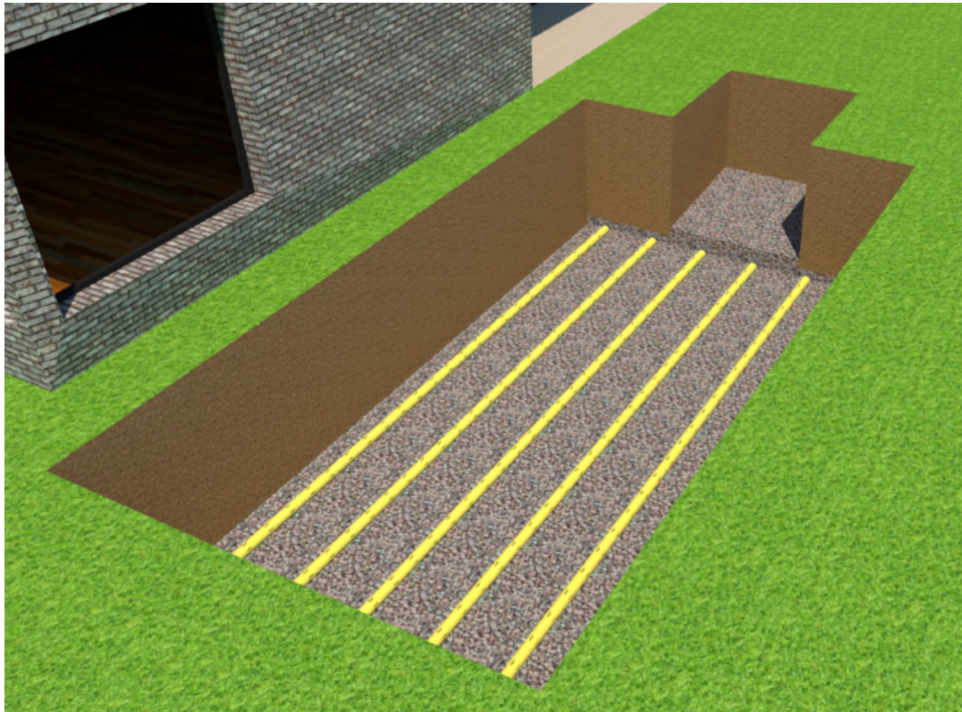
Outer depth of the pool 150cm + 20cm of the concrete base + 20cm of gravel bedrock

190cm

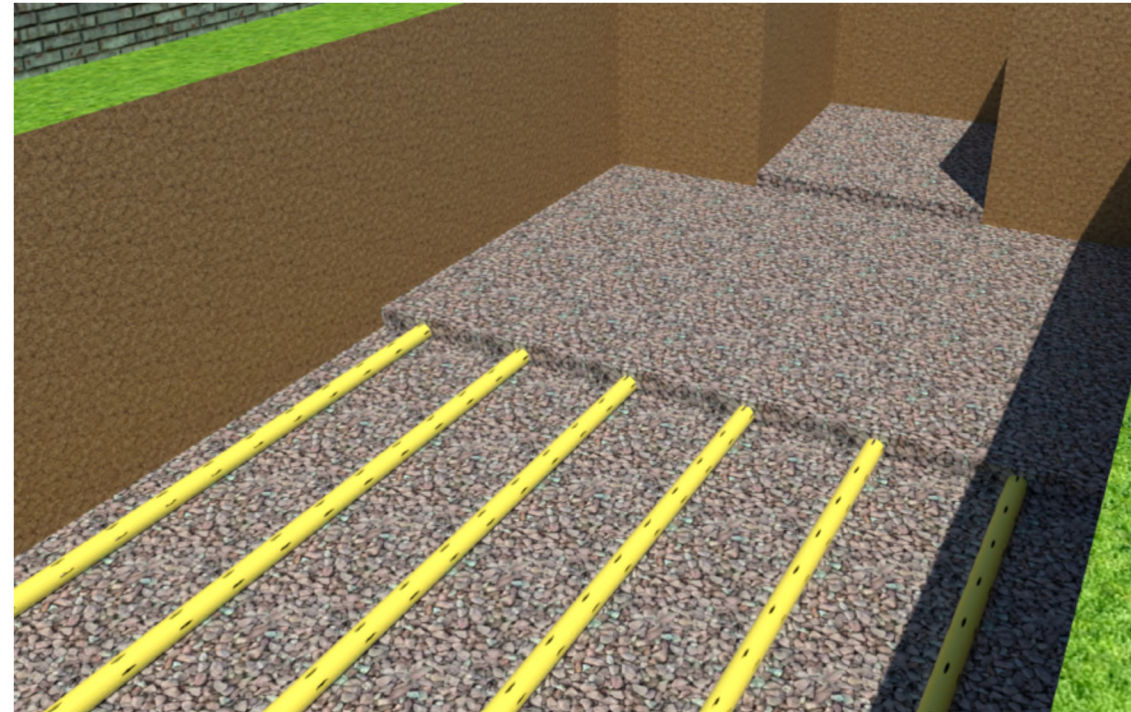
In this example case the depth of the excavation from the upper edge of the pool 190 cm.

The depth of the excavation is calculated from the upper edge of the pool.

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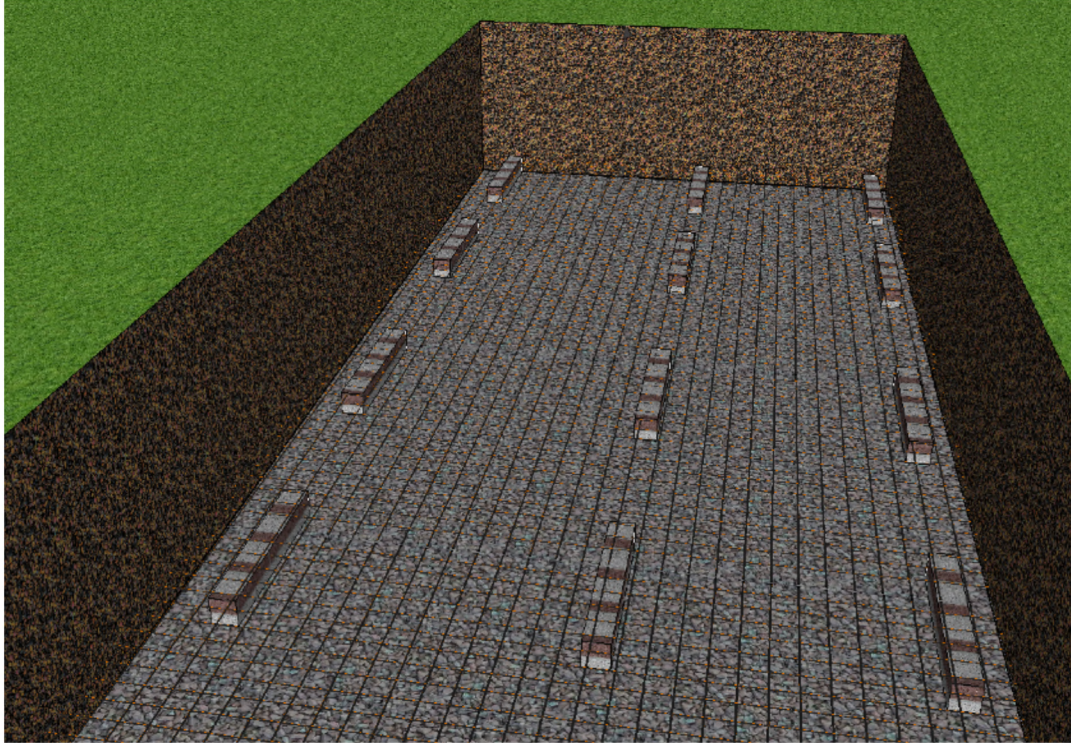


GRAVEL BASE AND DRAINAGE OF THE BASE PLATE

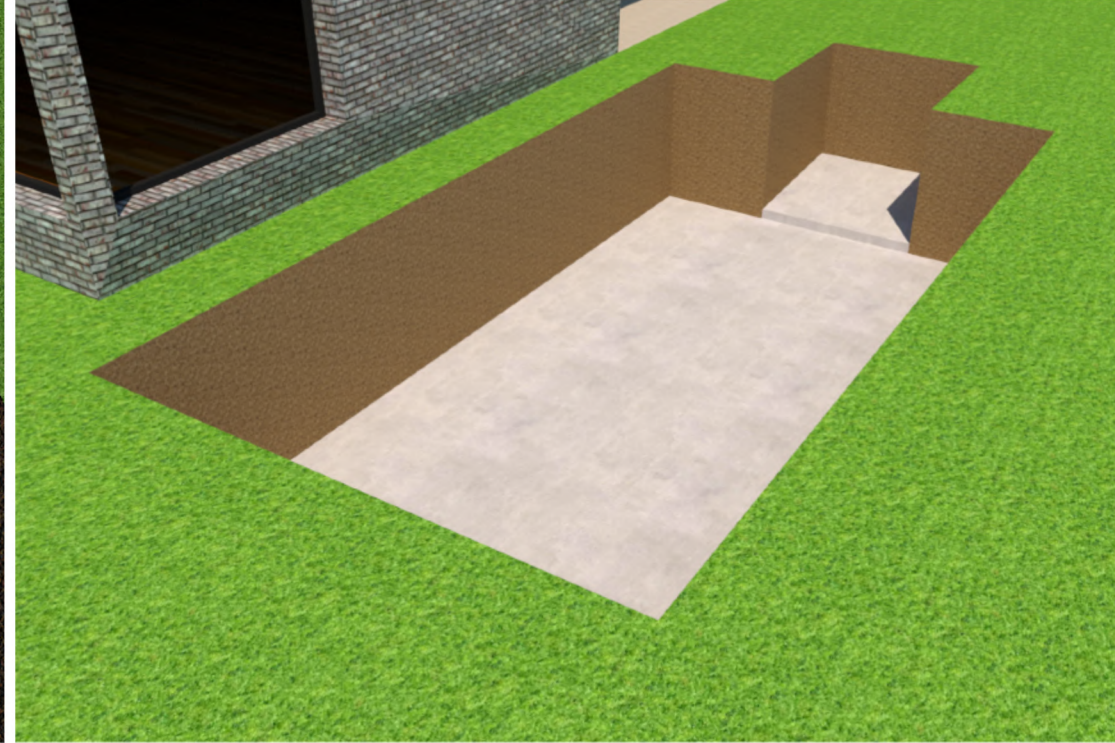


The gravel bedrock must be at least 20 cm high to prevent movements or drops of the concrete base plate. To the excavation pour about half of the gravel (12cm) fraction 8/16 and really choke with a vibrating plate (the thickness of the gravel base after chocking should be approx. 10cm.) Then we lay a 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.

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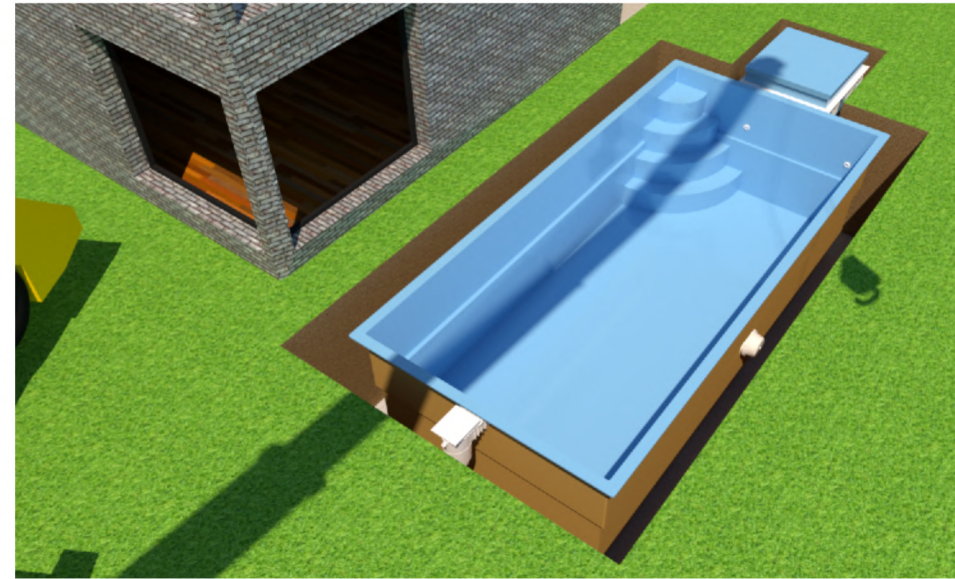
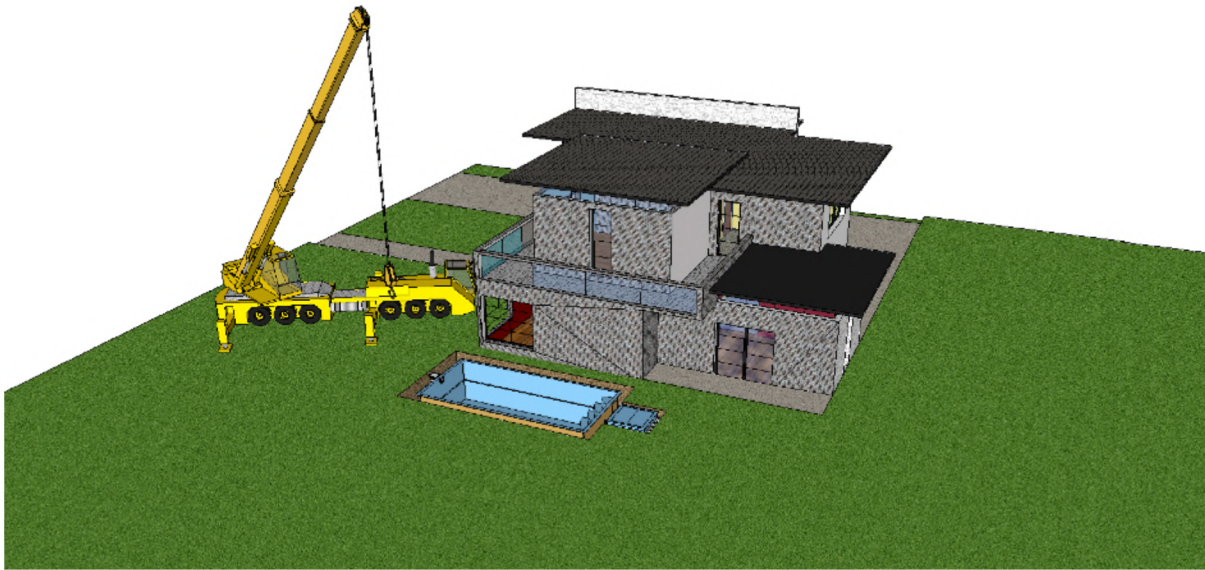
CONCRETING THE BASE PLATE



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 $D_{max.8} / 16\text{mm}$ 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, underlay and tie 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 +/- 4 mm. In case of larger inequalities on base plate, unevenness will appear on the surface or during finishing work on the walking areas around the pool. In case the tech box with pump and filtration will be placed next to the pool, it is necessary to concrete the 30 cm step on the base plate where the tech box will be placed (see drawing for the tech box.)

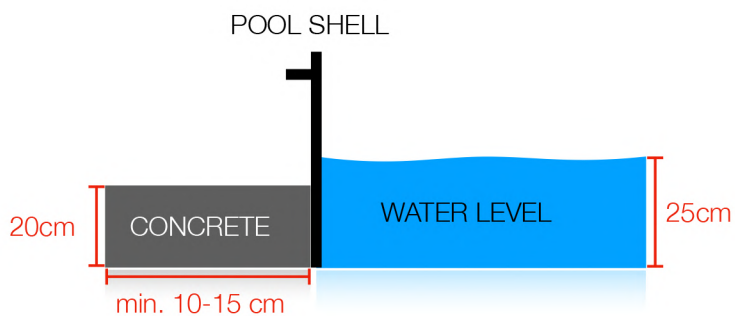
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PLACING THE POOL

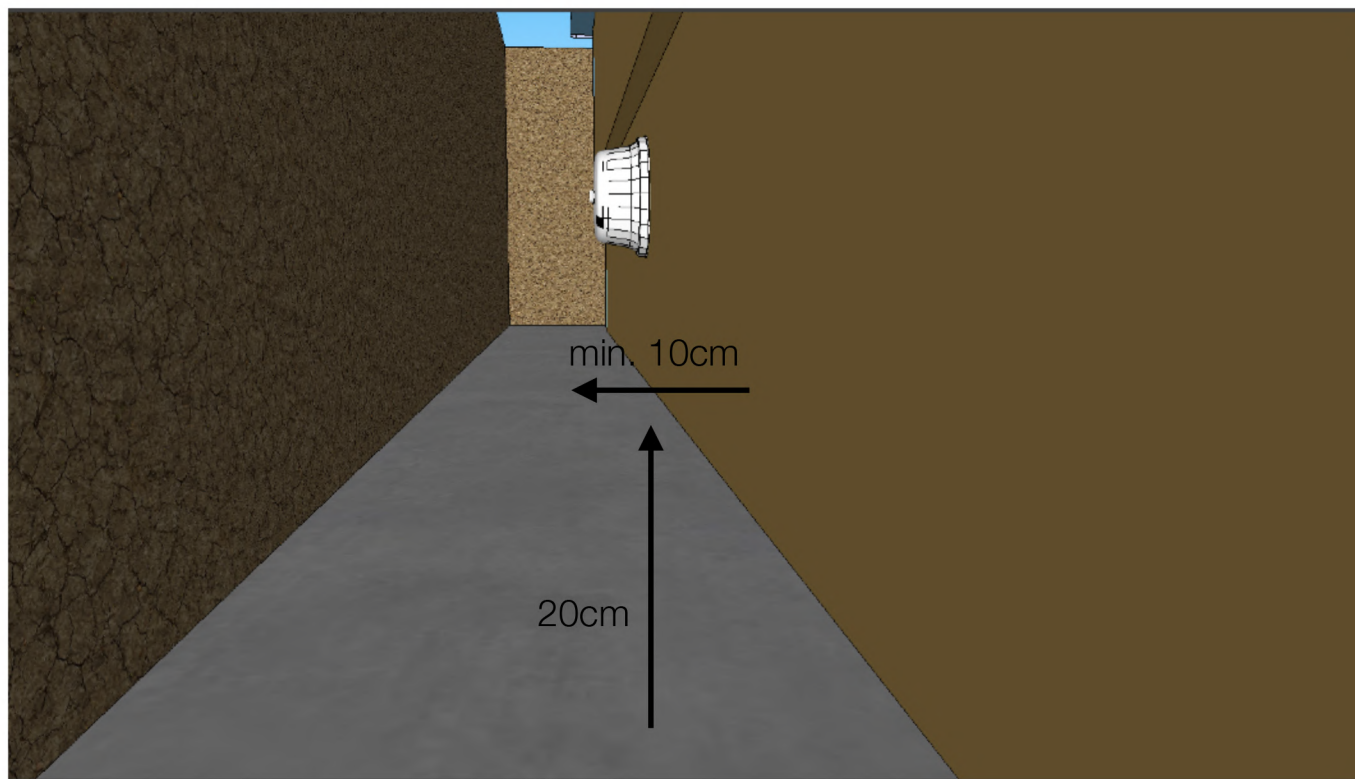


Place the pool into the excavation using a crane with a trained binder, who has experience with manipulation with pools. The pool has special metal handles for which the pool can be lifted. The crane for placing the pool is always provided by the customer at his own expense and at his own risk. In case the pool is moved to greater distances, we recommend that you ask the crane company for a visit to assess the situation and select the right crane. Our team, which brought the pool to the installation site, will always help you with lifting and storing the pool.

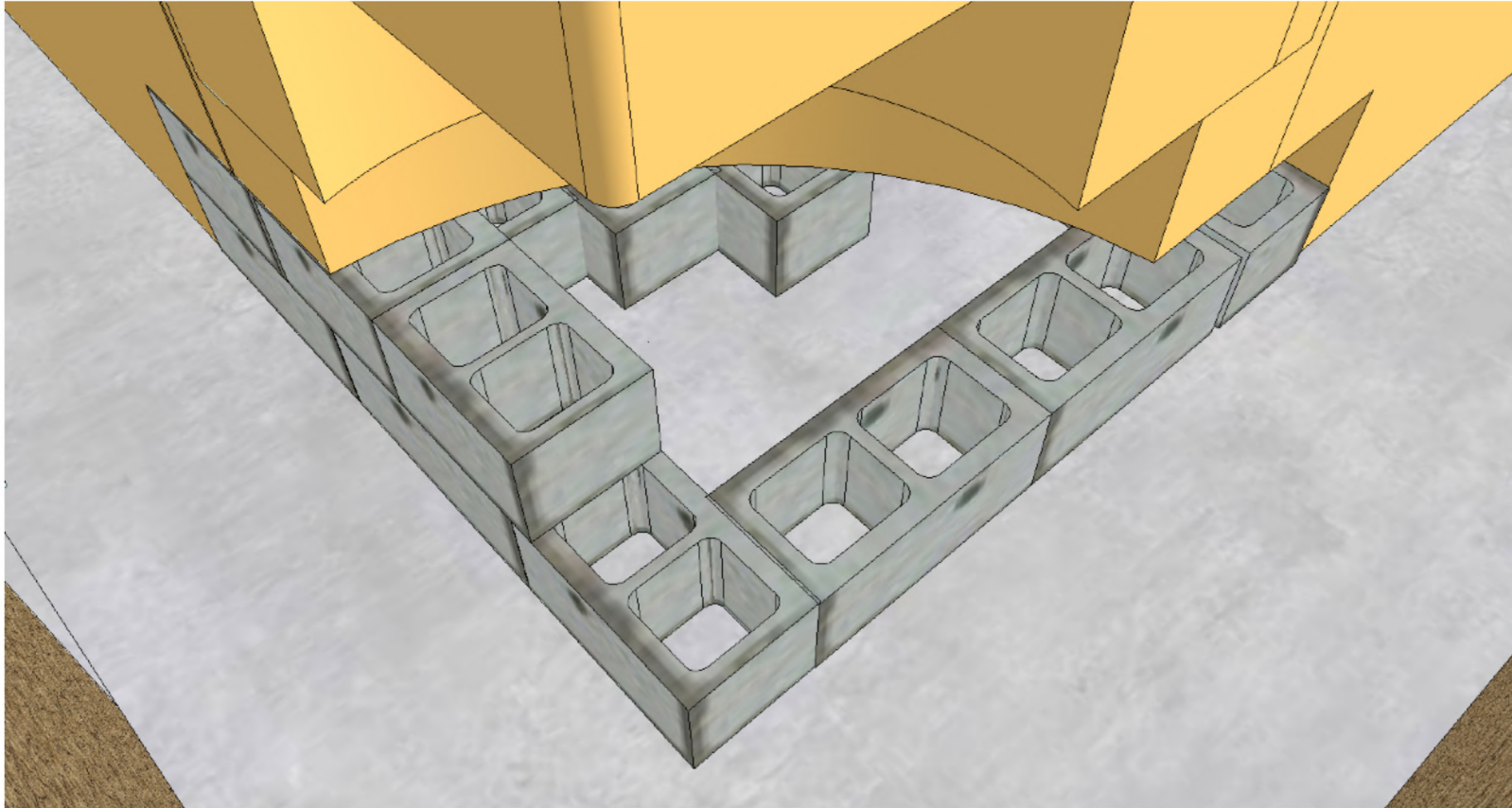
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*Water level has to be always higher than concrete.



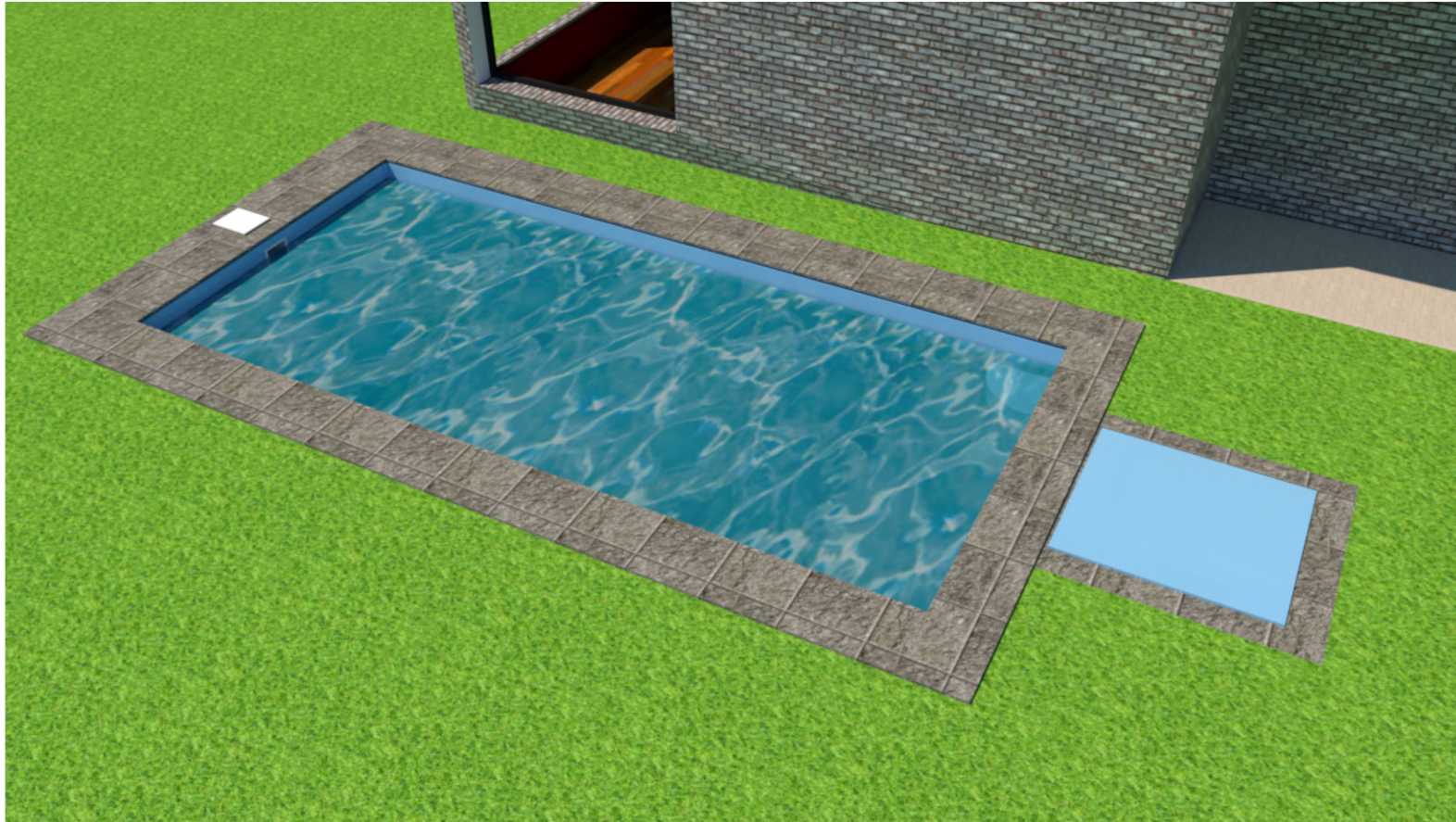
For pool concreting please use so-called dry / wet concrete mixture without aggregate with a strength of at least C20 / 25. We do not recommend to use concrete from MIX or from a concrete pump. In the first phase fill the pool with 20-25 cm of water and start concreting before the concrete layer reaches 5 cm under the water level, pump another 20-25 cm of water again and continue with concreting. Concrete gradually until the required height of concrete is reached around the entire pool. It is important that the water level in pool is always at least 5cm higher than the height of concrete. Thanks to this, the pressure is balanced on both pool sides and the flatness of the pool walls is ensured. The minimum thickness of concrete is 15cm.



The pool staircase must always be underconcreted - one of the options is to fill the space under the stairs with a form work. The second option is to fill the space under the stairs with concrete. In both cases it is necessary to fill in the space under the staircase sufficiently so the staircase rests on the reinforced /concrete part.

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FINISHING THE POOL PLATE AROUND THE POOL

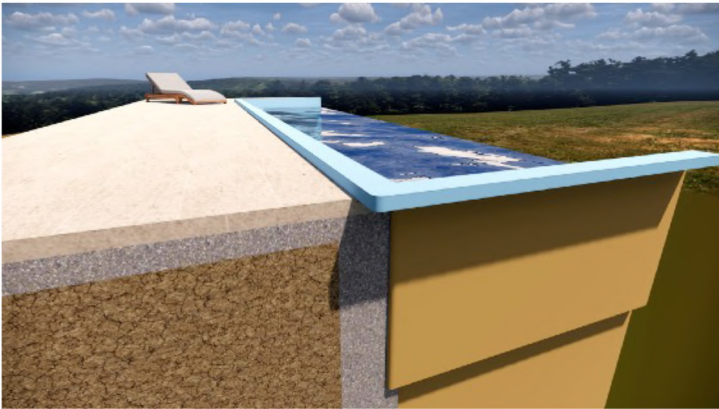


Concreting the top plate around the pool can be done at once, in any case the pool collar must be concreted – this ensures the flatness of the upper pool edge. It is necessary to reinforce the concrete slab around the pool with steel net with meshes of 10x10 cm and at least 5 mm thick. The thickness 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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FINISHING THE LAMINATE COLLAR

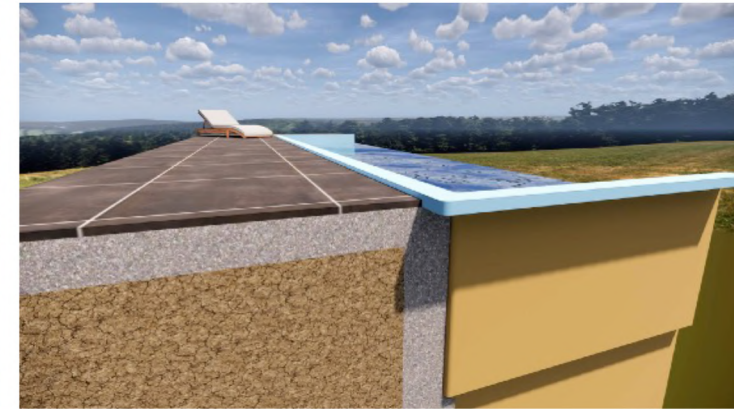
Fiberglass pools have a special collar on the top edge which helps to strengthen the pool. There are 3 options how to finish the pool edge:



1. *The collar is under the paving.*



2. The collar is above the paving.



3. The collar is leveled with paving.