

Short installation guide aquaplast® - plastic container

Caution! Read careful and completely before installation! Installation is only to be executed by specialized company!



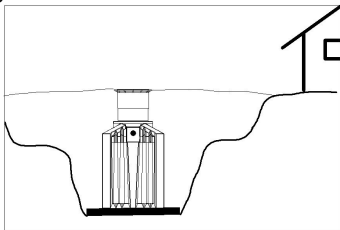
Container size: 1.250 l and 2.250 l

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Position:
Location should be near to direct house connection

Measurements of dump has to be determined and construction side has to be protected against trespassing.

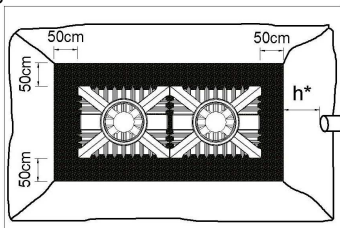
figure.1



When using dome enhancement and/or telescope excavation, depth of excavation has to be adapted accordingly.

h^* (depth from supply bottom edge) = supply edge of container + bed

figure.2



With construction of excavation safety has to be considered (BGV C22, DIN 4124). Do not install excavation for plastic container in depression of the terrain. When installing container an area that is endangered to risk of floating or stagnant moisture or in areas with high ground water level or areas with cohesive or impermeable ground the risk of aquaplaning and deforming of the empty tank has to be determined. (see chapter 7, special installation conditions in owners manual). If necessary an adequate drainage line has to end to dimension in a vertical installed hopper to dewater. A submerged pump has to be in the hopper to pump down the surplus of water. Pump has to be checked regularly! Water can also be drained off to a deeper location to be drained away in gravity or to be diverted to a drainage.

When installing plastic container in terrain with hillside situation it is to be considered that edgewise pushing earth pressure with not naturally grown earth should be absorbed with a supporting wall. Surrounding of container should always be able to be percolated through. Excavation should be planned near to direct house connection with enough distance to the building (fig. 1). This, however, is due to the building class, depth of building and the depth off he angle of repose. Details are to be found in DIN 4123. Measurements of tank + 50 cm in each direction are the size of the excavation (fig.2). Angle of repose has to be according to DIN 4124 (ca. 45°-60°).

When difficult ground conditions are encountered or expected :

For example the soil-material under or around the tank cannot be compressed or it is not stable/ fixed , or shrinking clay etc., when water can appear around the tank (groundwater, water in soil-layers, rainwater which cannot percolate etc...) there can come a big force on the tankwalls. In this cases put concrete under and around the tank ! (Carefully place concrete around the tank in 150 mm thick layers, ensuring that there are no voids remaining around the tank, and the level of water inside is maintained at a level of approx. 450 mm higher than the level of concrete backfill)

Depth of excavation is calculated out of inflow level of container (142 cm) + 15 cm bed (same material as filling material mentioned later on), and compressed by hand (fig. 3). Plastic container is to be installed in excavation (fig.4) and has to be adjusted on bed with air level. After installing all connection lines please check back with air level (fig. 5). Tank has to be filled with water now til 30 cm water level in tank. Afterwards please fill excavation with back-filling material (app. 15 cm) (see chapter 4.2 in owners manual) and compress with hand (fig. 6). Repeat this action and fill in ca. 15 -20 cm of water and fill excavation up to water level with filling material. Repeat until tank is completely covered. Please pay attention on the right position of the stainless steel profiles (for reinforcement) in the tank. The tank should not be erratic deformed. Especially recommendable as back-filling material is gravel or gravel-sand beddings with a friction angle $\sim 32,5 - 37,5^\circ$ in compressed state. In order to avoid pushing water or backwater, filling material right behind the back of the container has to be permeable to water, so surface and stratum water can trickle away. It has to be made sure that container is embedded equally from all sides. The rest of the excavation can now be filled. Earth, earlier removed from excavation can be used (no stones near to container wall). Compress only by hand ! Surface of excavation should be created so that no water can be gathered but be percolated through the earth. Outlets are ready for installation for KG-pipe DN 100. Container will be connected through pre-installed special sealings, and has to extend into the tank about at least 20 cm. Please consider: accessibility for cars (see chapter 7, special installation conditions in owners manual). **When ignoring installation instructions all warranty claims will be ceased!**

When inspecting the tank a second person is needed for coveragen! Cover has to be tightened bolt to childproof!

The short installation guide gives a brief overview and does not exclude reading the complete manual!
When there are troubles don't hesitate to ask us !

figure. 3

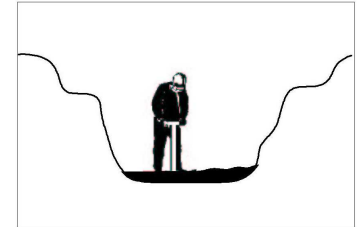


figure.4

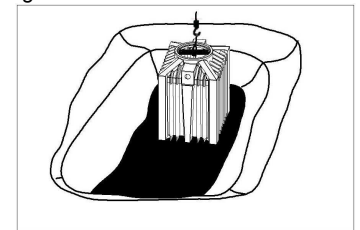


figure 5

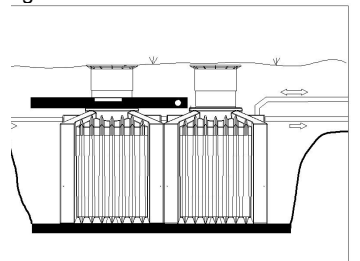


figure.6

