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Packaged Pumping Station Tank Installation Guidelines

1. Select a suitable location for the pumping chamber ensuring the groundwater level is at least 1 metre below the bottom of the tank. Avoid vehicular traffic areas where possible – if this is not feasible a qualified structural engineer should be consulted for the cover slab design. The plinth for the control panel kiosk (if used) should be within 3 metres from the pumping chamber.
2. Confirm there are no underground services in the chosen area, other than those that are to be utilized, and excavate an opening at least 0.8m deeper and 0.75m larger in diameter than the tank.
3. Place a minimum of 150mm deep hard core in the base of the excavation and compact well. Pour mass concrete (mass not exceeding 1500kg per cubic metre) 200mm thick on top of hardcore and smooth to provide a firm level base for the pumping chamber. The concrete should be agitated and consolidated to avoid cavities. Allow the concrete to partially cure before proceeding but ensure the anti-floatation rails will sink in.
4. Lift the tank into the excavation and align the inlet and outlet connections with the inlet and outlet pipes. The top of the chamber should be at least 425mm below finished cover level. Venting of the pump chamber is at the contractor's discretion.
5. Provide a 100mm diameter cable duct complete with draw rope between the control panel and pumping chamber (the ducts should be in the centre of the plinth if a kiosk is to be utilised). Bring the cable duct into the tank at the sub-base level
6. Fill the tank approximately one third full of water to stabilise the unit. ENSURE THE INLET, OUTLET AND CABLE DUCTS HAVE BEEN CONNECTED FIRST.
7. Shutter around the chamber and pour mass concrete 150mm thick to the shoulder of the tank ensuring the water level within the tank is always higher than the concrete layer on the outside and leave to set. Finally pour concrete to the top of the access opening. Once set add a 225mm high x 225mm thick (minimum) brick sub-base onto the set concrete, avoiding the tank's lip. Concrete should not be allowed to fall directly on to the tank.
8. Provide suitable shuttering around the access opening to the chamber and cast a cover slab of appropriate thickness (see point 1) with rebate to accept the access cover frame.

NOTE: NO LOADING FROM THE SUB-BASE OR COVER SLAB SHOULD BE TRANSFERRED TO THE TANK.

9. Once the concrete has set, remove all shuttering, drain the water out and remove all debris.