

The following minimum guidelines should be adhered to when installing below ground waste water treatment plants.

Installation should be carried out / supervised by an authorised and competent person to avoid failure.

- Dig a hole that is a minimum of 600mm longer, 600mm wider and 300mm deeper than plant dimensions. Depth of excavation is dependent on your invert level to ensure proper flow.
- For plants 6000L and larger, prepare a smooth concrete reinforced bed (cast-in-situ slab) of 150mm thick. The bed should be 200mm larger (longer and wider) than the plant footprint.
- Place the plant on prepared surface ensuring it is level.
- Prepare a dry river sand / cement mixture (1 part cement to 20 parts river sand) also described as inert granular material, soilcrete mix of 5% cement to 95% inert granular material or cement slurry.
- Start backfilling around the plant using the mixture described above. Note, it is essential to stamp damp granular backfill material under and between the legs of the plant to a depth of at least 350mm above the cast-in-situ concrete slab or compacted bed.
- Fill the plant with clean water to the level of the backfill mark.
- Continue with backfill as described above another 250mm above water line, damp stamping the sand mixture as you go. (Compacted to 90% Mod AASHO).
- Fill the plant up to the backfill line. Continue this process until you have reached the top of the plant and water is flowing out the outlet hole. (Water and backfill in 250mm increments).
- **Excavated material consisting of stones, rocks, peat or clay CANNOT BE USED as backfill material.**
- Due to the weight of the material (sand, ground etc) lying on the plants, plants placed deeper than 2 meters (2000mm) below ground level, **MUST HAVE** a 150mm concrete slab thrown above the plant, overlapping 1000mm in all directions over undisturbed ground.
- All purchases/installations of Eco Tanks BIG RED WWTP, must be **registered online** to validate your guarantee. **Register here.** (www.ecotanks.co.za/big-red-registration)
- **Any DEEP installation, installations in clay and/or high water table need to be done with specific installation parameters** - please enquire at info@ecotanks.co.za
- Technicians are also available to supervise your project at a nominal fee.

