

Phase 1: Site Preparation & Lining

1. **Excavation:** Excavate to the specified tank dimensions, allowing an additional 500 mm of working space on all sides.
2. **Base Layer:** Prepare a level, flat base using 100 mm of sharp sand.
3. **Fleece Layer:** Install a protection fleece over the sand base, ensuring a minimum 500 mm overlap between sheets.
4. **Watertight Membrane:** Lay an impermeable membrane over the fleece with a minimum 500 mm overlap. Weld or tape all joints to ensure a completely watertight seal.



Phase 2: Tank Assembly

5. **Crate Placement:** Begin laying Neptune crates from one corner, working outward in a systematic pattern.
6. **Horizontal Connections:** Secure adjacent crates using Bow Shear Connectors.
7. **Vertical Connections:** For multi-layer systems, use Circular Shear Connectors to join crate layers vertically.
8. **Finishing Layers:** Fit closing caps to the top layer and install side panels around the tank perimeter.
9. **Pipework:** Install flange adaptors at all inlet and outlet connections.

Phase 3: Sealing & Venting

10. **Membrane Seal:** Wrap the impermeable membrane over the top of the tank, install the lid panel, and seal thoroughly to maintain watertight integrity.
11. **Fleece Protection:** Wrap the protection fleece over the top of the tank and install the lid sections.
12. **Venting:** Install one 100 mm vent pipe per 5,000 m² of drained area.



Phase 4: Backfilling

13. **Initial Backfill:** Apply a 100 mm layer of sharp sand over the protected tank.
14. **Structural Backfill:** Continue backfilling using approved materials, compacted in 300 mm layers.
15. **Compliance:** All backfill materials and cover depths must be confirmed by Zuble prior to completion.

