



**1. Q: How do you inspect Matrix<sup>®</sup> Tank Modules?**

**A:** Inspection holes can be placed through the center of tank if required.

**2. Q: How to you prevent Matrix<sup>®</sup> Tank Modules silting up?**

**A:** Filtering the water before it enters the tank with an Atlantis Filtration Unit<sup>®</sup> will prevent the Matrix<sup>®</sup> Tank Modules from silting up. Good housekeeping during installation and ensuring that the inlet pipes were adequately sealed will also prevent the Matrix<sup>®</sup> Tank Modules from silting up. Through the geotextile and sand only pure water can have access to the Atlantis tank

**3. Q: How to prevent geotextile to clog up?**

**A:** The Matrix<sup>®</sup> Tank Modules should be completely surrounded by a layer of 300mm coarse washed river sand with no fines compacted to 95% density on both the top and the sides of the tank.

**4. Q: How do we know that the retained water in the Matrix<sup>®</sup> Tank Modules is in continuous motion?**

**A:** The capillary action of the water within the sand provides continuous motion.

**5. Q: What effect does this water motion have on the water quality?**

**A:** The continuous motion provides additional surface area for aerobic decomposition and prevents stratification (layering) of the water.

**6. Q: How are the waterproofing liners joined?**

**A:** The waterproofing liner is heat-sealed by a poly welder. The liner is available in 8m wide lengths. The optimum tank configuration would be designed to prevent having to poly weld the liner.

**7. Q: Who can join the waterproofing liner?**

**A:** Poly Welders. They can be found in your local Yellow Pages.

**8. Q: Can tree roots penetrate the waterproofing liner?**

**A:** No, not unless the waterproof liner has been punctured or torn. Additional protection can be provided by using a root barrier of geotextile outside the liner.

**9. Q: What is the purpose of the geotextile?**

**A:** The geotextile prevents the surrounding bed of sand from entering the tank and protects the waterproof liner from any potential sharp edges.

**10. Q: Can I drive over the tank?**

**A:** Yes. The Matrix<sup>®</sup> Tank Modules require 500mm of fill compacted to 95% at 300mm intervals for vehicular traffic and 300mm compacted fill for pedestrian traffic.

**11. Q: What size does my excavation need to be?**

**A:** Your excavation needs to allow minimum of 300mm on each side of the tank for adequate compaction of backfill materials. The depth of the tank should allow 100mm below the Matrix<sup>®</sup> Tank Modules and 300-500mm above the tank depending on whether vehicular traffic is expected.

**12. Q: What maintenance is required for the Tank Modules?**

**A:** Nothing.

**13. Q: What maintenance is required for the filtration unit?**

**A:** The filtration unit should be regularly cleaned out after rainfall and washed

**14. Q: What is the assembly time for a Matrix<sup>®</sup> Tank Modules for an unskilled person?**

**A:** Mini – 2 mins  
Single – 2 mins  
Double – 4 mins  
Triple – 6 mins  
Quad – 8 mins  
Penta – 10 mins

