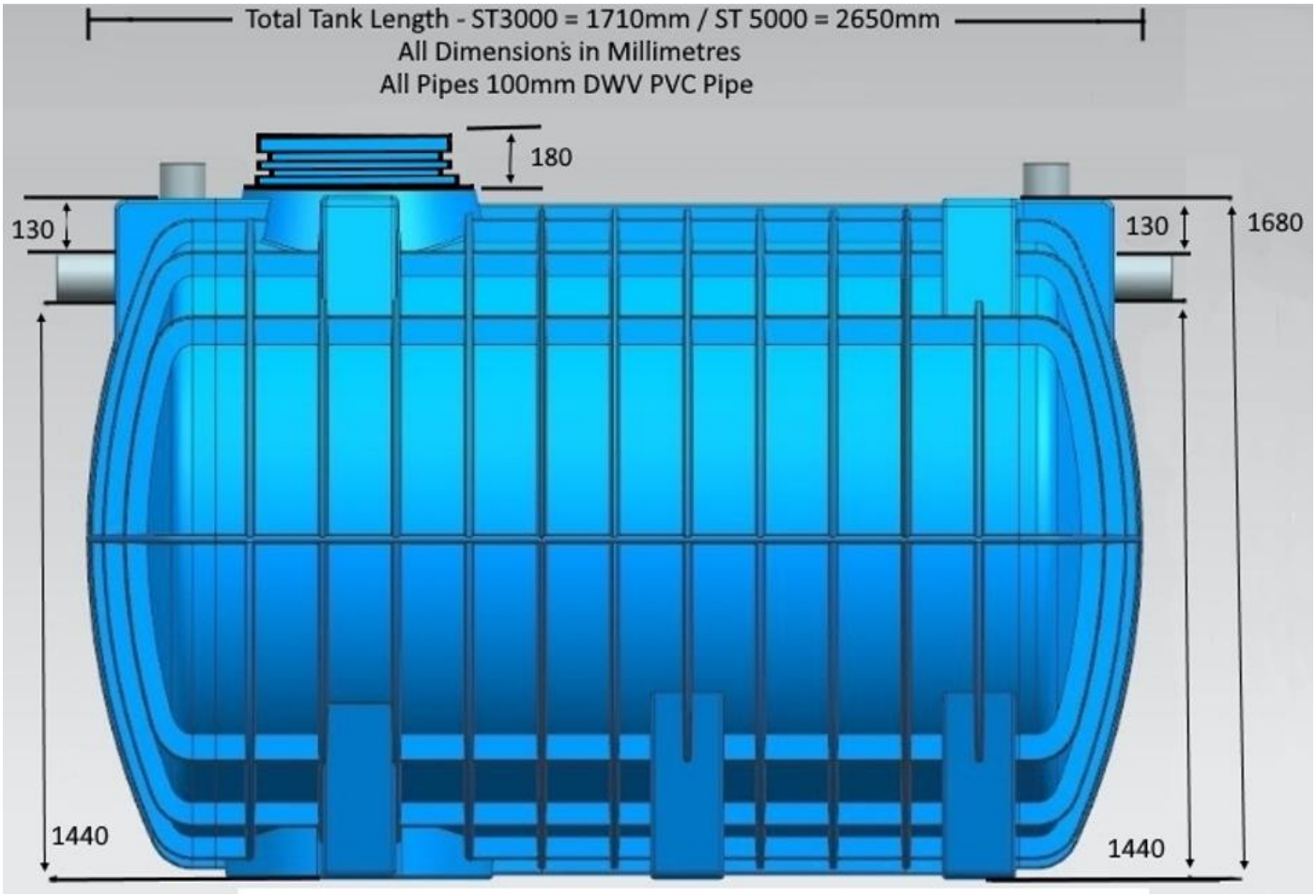
DURAPLAS SEPTIC TANK



Installation Guide

& Care Instructions

- **ST-3000**
- **ST-5000**

Read this Manual properly to ensure

all procedures and WH&S requirements are understood.

1. Site Selection

- Contact local authorities before excavating to make sure no infrastructure networks are located at your planned digging site.
- Carefully choose the best location of the tank considering the location of existing network services.
- Dig a hole with enough distance so as not to affect foundations and adjacent structures. If there are no existing regulations, it is recommended that excavation from any structure should be a minimum of 2x the depth of the excavation hole.
- Always consult a qualified Engineer if there is any doubt about the possible effect of your planned excavation.
- The septic tank must not be installed where there is a possibility of the water table exceeding half the level height of the tank.

2. Excavation

- Excavate the hole to suit the dimensions of the tank and excavation slopes should be a minimum of 30 degrees.
- The depth of the hole should be a minimum of 1675mm below the finished pavement or lawn level.
- Add 100mm of sand at the base and compact to a firm level.
- The dimensions at the base of the tank should be larger than 200mm as a minimum.
- Always be aware of safe working practices when working on excavated holes.

3. Positioning of the Tank

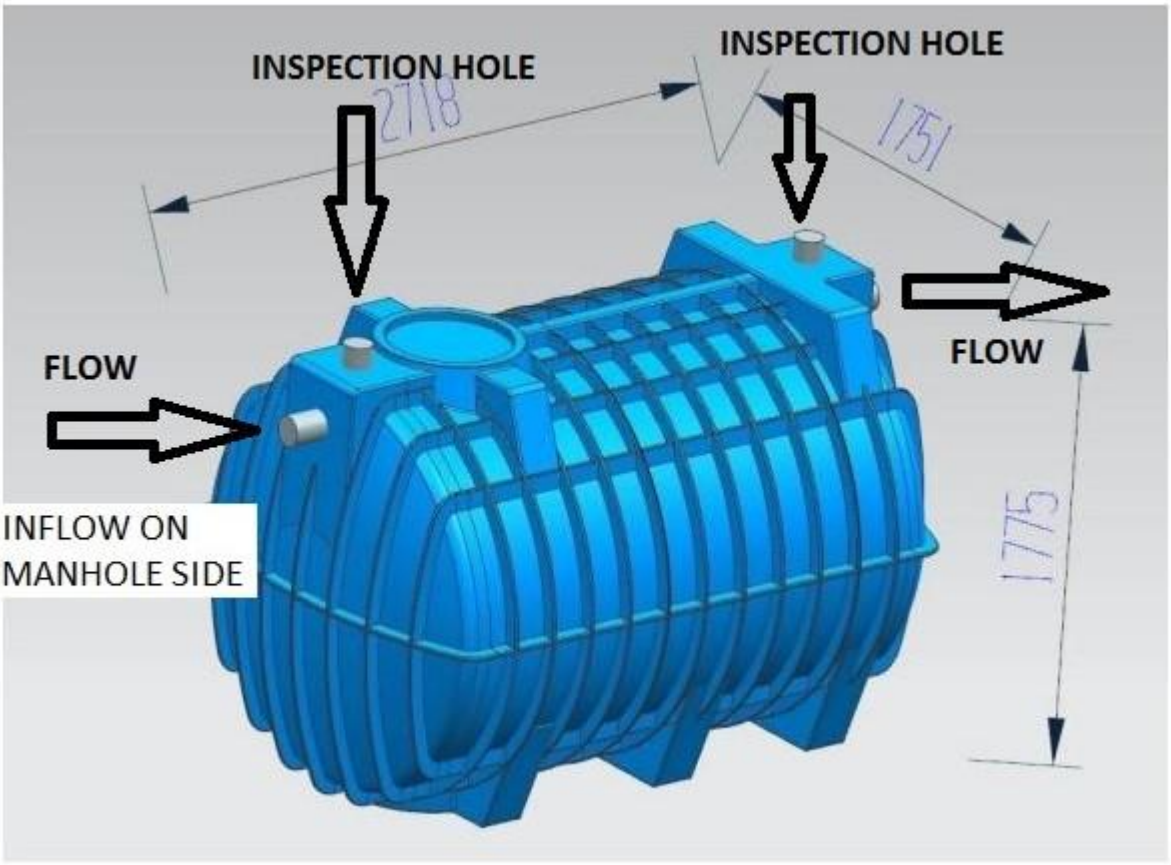
- Use the top lifting points to position the tank into the excavated hole.
- The bottom of the tank has square feet positioned equally along the radius for stability.
- Using the top access holes as a guide, level the tank in all directions.

4. Backfilling

- Fill the tank with water at the halfway point before backfilling.
- The backfill around the tank must be compacted in layers every 200mm. Do not use heavy equipment compactor in the compaction process, a hand-held vibrating plate compactor will be suitable.
- Use sand, crusher dust, and 6mm fine crushed rock as backfill material.

5. Final Installation

- Make sure that all caps and overflows are sealed correctly before backfilling and ensure that all connections are fitted correctly.
- Apply silicon beads around the groove on the top of the access hole and fasten the lid with screws.
- If a riser is required, fasten the unit in from the inside with silicon and screws.



OCCUPATIONAL HEALTH & SAFETY

Every workplace must prioritise WH&S. Accidents and injuries can harm anyone. There are many potential hazards during the installation of the tank. The following points must be considered.

- Only use a qualified plumber/installer to install and fit the tank.
- When lifting the tank, you must use suitable lifting lugs on the tank and carefully place the tank into the hole.
- After installing the tank, do not take off the lid of the tank. An open tank is a very serious hazard that could result in death by drowning.
- The tank is a confined space workplace, do not enter the tank at any time without adhering to the safe working practices and directions of “Confined Space Entry”.

It is the responsibility of the tank owner to ensure proper installation and maintenance of the tank. Duraplas is not responsible for any loss, injury, or death resulting from a failure to observe all safety and installation requirements or safe working procedures.

6. Care of the Septic System

- Septic systems are “On-site domestic wastewater treatment that use soil to naturally treat wastewater.
- A septic system uses bacteria break down waste. It is therefore important that you do not use chemical cleaning products down the system that will disrupt the breaking down of waste.
- Chemicals and wastes not to dispose in the system are; chlorine, ammonia, sodium hypochlorite, fats, greases, pesticides, disposable nappies, sanitary napkins, petrol, paint, solvents etc.

7. Odours

- During the first month of using the tank, it is normal for the septic system to produce some odours. The odour will disappear after a few weeks.
- If you find that you may have used chemicals or discharged a large amount of greywater from the laundry, the system will come back to normal after a week.

8. Ground Maintenance

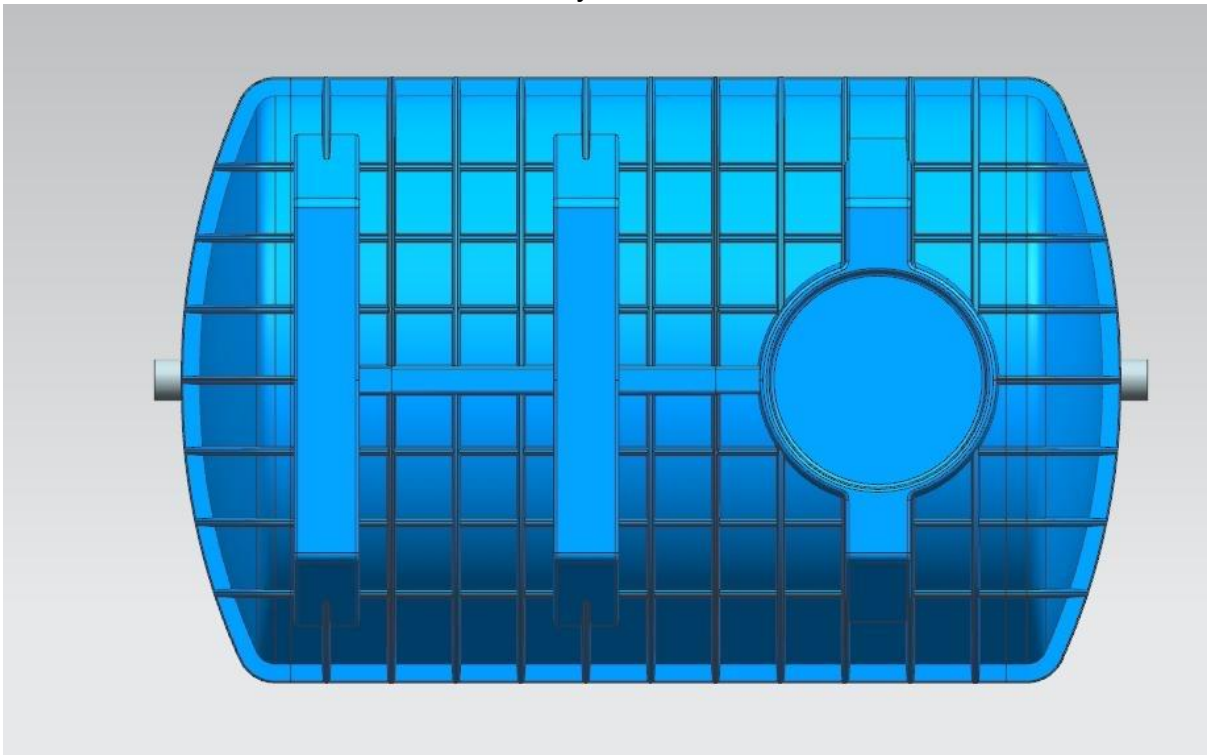
- Drainage pipes transfer wastewater into the soil. The area around the network of these pipes must be left undisturbed.
- Do not divert stormwater to this area.
- Do not allow to drive or park on any part of the drainage system

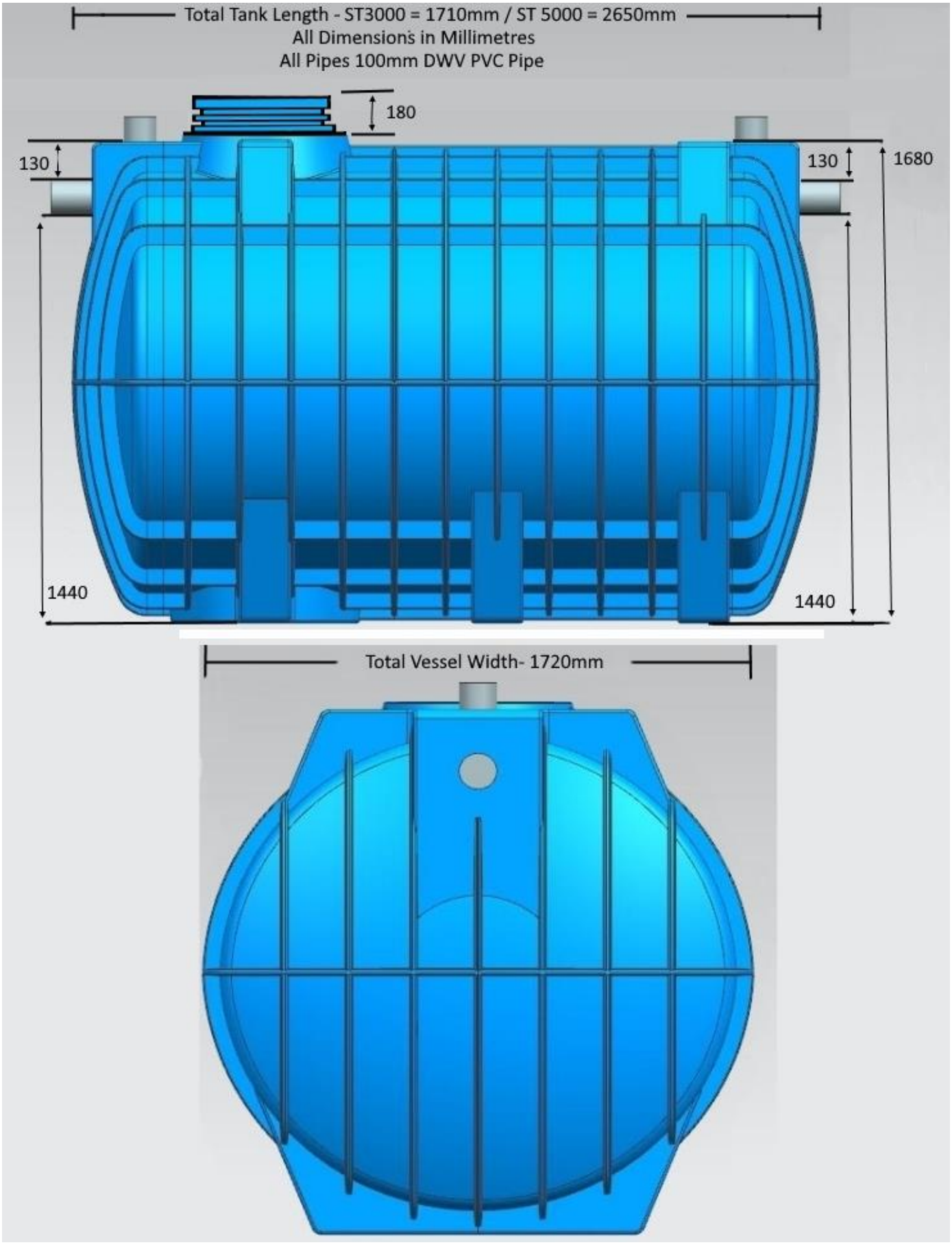
9. Septic Tank Maintenance

- Septic systems over time will accumulate solids and must be pumped out every 3 – 5 years, depending on the number of users.
- Ensure the tank is pumped out and maintained by a licensed liquid waste collector.

DURAPLAS SEPTIC TANKS

- Duraplas septic tanks are certified with the requirements of AS/NZS1546 On-site domestic wastewater treatment units Part 3.
- Our septic tanks are designed using Nonlinear Finite Element Analysis (FEA) solver that analyse stresses and displacements that will incur on underground tanks under hydrostatic soil pressure, lateral, and vertical load tests as defined on AS/ NZS1546 On-site domestic wastewater treatment units Part 3 (Appendix H and Appendix K).
- In line with the 7-year Building Industry Guarantee, our septic tanks come with a seven (7) year manufacturer's warranty. Our septic tanks' design also meets the accreditation guidelines with a service life of 15 years.
- All installation instructions must be strictly followed for these warranties to be valid.




Total Tank Length - ST3000 = 1710mm / ST 5000 = 2650mm
All Dimensions in Millimetres
All Pipes 100mm DWV PVC Pipe
180
130
130
1680
1440
1440
Total Vessel Width- 1720mm