



**TurboJet**  
**Single™**

Advanced Secondary Treatment System



# INSTALLATION GUIDE

**CIVILMART**

*#1 in Civil ✓ Built to last*

# YOUR GUIDE TO TURBOJET SINGLE

Septic tanks should meet the required capacity specified by the local regulatory authority for the particular application.

The use of household sink grinders is not recommended where a septic tank is in use. It should also be noted that the use of dishwashers and automatic washing machines be kept to a minimum to avoid overloading the bacteria in the septic tank.

Septic tank installation needs to be done correctly for the first time to minimize problems in the future. Time spent on a good installation will save thousands of dollars in repairs and maintenance in the future.

In areas where the water table is above 1.0m from ground level, an engineer will be required to design a suitable tank anchoring methodology. Particular care should be taken if installing tanks during wet conditions as this may affect the ground water table level. If in doubt, professional advice should be sought.

# THE INSTALLATION GUIDE

## Step 1

The first step is to excavate a hole big enough for your tank, making sure there is at least 500mm clearance on all sides of the tank. This allows for a good visual inspection of your tank to check for cracks or leaks before backfilling. The excavation must allow for the tank's overall height including risers. Bedding material should consist of compacted sand or crusher dust no less than 100mm in depth. It is important that the septic tank lid remains at least 100mm above ground level to avoid entry of ground water and that the excavation has no projecting objects, roots or foreign matter.



# THE INSTALLATION GUIDE

## Step 2

Lower tank carefully into the prepared hole and align inlet and outlet fittings with the trenches and piping. Ensure the tank is level and slightly above ground level. Connect the inlet and outlet piping to the tank. Entries take standard 100mm UPVC sewer pipe with plain ends and rubber rings, which allow for some mis-alignment and reduce stress in the pipe. Plain end pipe must be painted with suitable primer and pipe glue, prior to connecting the tank to the piping.

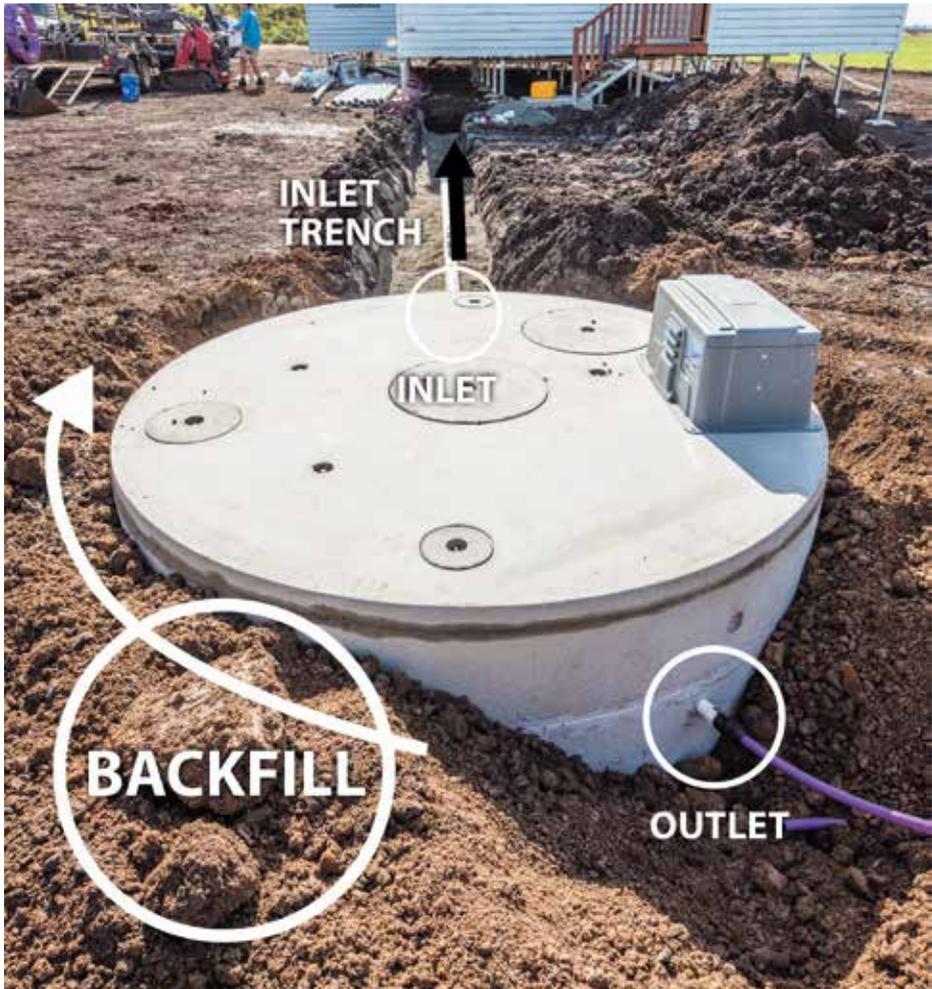


# THE INSTALLATION GUIDE

## Step 3

Partly backfill the hole with sand or loose soil to half the height of the tank, always use good clean fill.

**DO NOT USE FILL CONTAINING ROCKS, RUBBLE OR FOREIGN MATTER.** It is at this stage the *lift holes/voids in the tank sides must be plugged off and sealed with epoxy cement*. In general, these slots are above the level of the containing fluid.



# THE INSTALLATION GUIDE

## Step 4

Fill the tank with clean fresh water to the level of the outlet pipe as soon as all connections are completed, in case heavy rain fills the excavation and causes the tank to float. Check for leaks around the inlet and outlet fittings and pipe connections. If a leak appears, remove the inlet and outlet fittings and the pipe connections. Remove and reseal the rubber rings. If damage to the entry points has occurred, it may need to be repaired with an epoxy cement compound. If no leaks are detected, completely backfill the excavation and lightly compact the soil around the tank.

## Step 5

Ensure the tank lid is fully sealed on the rim of the tank, with epoxy cement making sure, that there is no rocking or movement when a weight is applied at any point around the circumference of the tank lid.

## Step 6

Once the tank has passed the final inspection by the local authority, the two inspection opening covers and the manhole access cover can be placed in position. It is recommended to apply a film of silicone sealant to the seating surface of the access cover to ensure that noxious odours do not escape.

# IMPORTANT NOTES

All full tank risers must be sealed with appropriate sealer.

Wastewater treatment tanks **must** be installed on a level base to allow the liquid to flow through each chamber.

All of the steps outlined in this document must be followed stringently, otherwise any warranties will be void.

When positioning pipes and Septic Tanks, note that the National Plumbing and Draining code AS/NZS 3500.2 specifies minimum cover sanitary drain piping as:

refer to a CivilMart - Toowoomba Tanks sales staff member if using in trafficable areas to ensure the correct product is supplied.

<b>LOCATION</b>	<b>CAST OR DUCTILE IRON</b>	<b>FOR OTHER MATERIALS</b>	<b>AND IF INSUFFICIENT COVER</b>
Public Roads, right of way, areas open to heavy vehicles.	300mm Minimum	500mm Minimum or	50mm overlay & 150mm paving
Other driveways, light vehicle areas etc.	300mm Minimum	450mm Minimum or	50mm overlay & 75mm paving
Elsewhere - no vehicles, pedestrian traffic ONLY	Nil	300mm Minimum or	50mm overlay & 50mm paving

# TurboJet Single Customer Service Centre

*Manufactured by Civilmart Toowoomba Tanks*

1300 248 456 | [civilmart.com.au](http://civilmart.com.au)

07 4634 3860 | [toowoombatanks.com.au](http://toowoombatanks.com.au)



**CIVILMART**