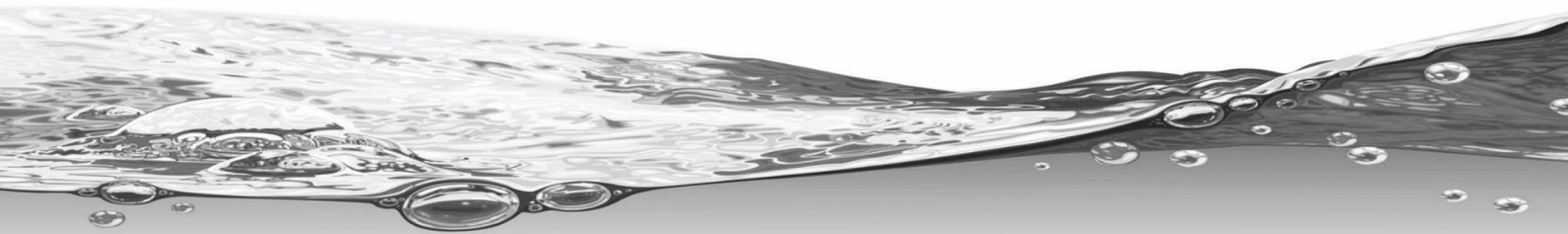




Taylex

WASTEWATER



INSTALLATION MANUAL

POLY ADVANCED BLOWER SYSTEM (PABS/PABSNR)



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Note: Do not act solely on the basis of the material contained in this document. Items herein are general comments only and do not convey advice per say. We therefore recommend that formal advice be sought before acting in any of these areas.

1. INTRODUCTION

The Taylex PABS Sewage Treatment System is designed to be installed both in-ground and above ground, collecting all wastewater from a domestic residence. This manual has been put together to explain the installation process of the PABS system as a guide only. Some sites may differ in access and slope which need to be taken into account when delivering and installing the system.

***Please note "PABS" refers to both PABS & PABSNR systems throughout the rest of the document**

2. SAFETY INSTRUCTIONS

	Follow all safety instruction provided by the onsite builder and ensure you have all the relevant licences to perform this work.
	Ensure the correct measurements are in place to prevent the general public from entering the site during the installation of the PABS. Excavated holes should be fenced if the PABS is not immediately installed.
	SLIPPERY WHEN WET! During cleaning, maintenance & repair work, the surrounding area may become extremely slippery due to spilt water. Caution is to be taken when walking/standing near the PABS when these activities are being conducted.
	Use safe lifting techniques when installing/relocating the PABS. Ensure that all lifting equipment is in a safe working order and the area is clear of obstructions. Ensure all lifting equipment used has a suitable capacity and current testing/compliance.
	The waste water contained in the PABS may contain harmful bacteria. Persons coming in contact with wastewater must immediately wash and disinfect all exposed areas. Contact your personal physician for all health concerns.
	WARNING - to reduce the risk of electrical shock, a licenced electrician or Taylex Accredited Service Agent (TASA) MUST carry out all works requiring access to the blower box prior to final commissioning.

3. STANDARDS & LICENCING

- All Installations must be completed in accordance with AS/ANZ 3500.1 and AS/ANZ 3500.2
- Irrigation Areas/Land Application Areas (LAA) must be installed as per AS1547 and all relevant State/Local Codes or Guidelines
- Ensure the appointed Licenced trades only complete this work – Plumbers/Drainers/Electrical

4. PRE SITE INSPECTION

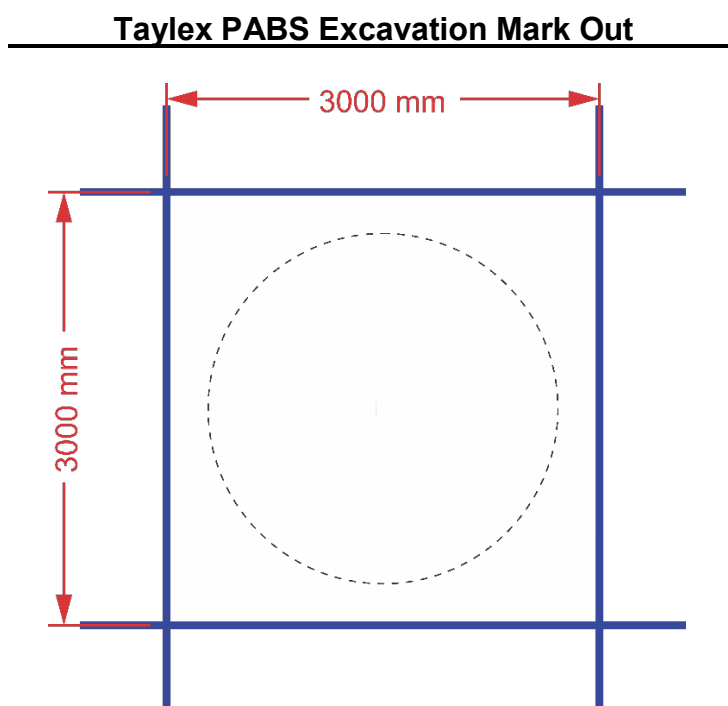
A pre site inspection should be conducted the day prior to installation. During this inspection the following details should be checked.

- Access requirements for excavation, Crane Truck, Truck or Crane.
 - A Crane Truck requires the following:
Access to site – 12m long x 4m wide x 4.5m high
Level Pad at the hole – 12m long x 7m wide
- Overhead obstructions
- Slope of site
- Soil moisture (for heavy equipment access)
- Weather conditions

5. MARK OUT

To ensure the PABS is installed in the position nominated by the Home Owner/ Builder, the location of the PABS should be marked out prior to excavation. The installer at this stage should have a copy of the approved site plans showing the location of the PABS as well as the required local authority approval. If not, it is advised to delay the installation until the plans have been received.

- Mark out a 3m x 3m square with line marking paint
- Place a centre peg in the middle of the square and spray it with white paint or a colour that it noticeable from a distance



6. DELIVERY AND PLACEMENT

In most areas, the PABS will be delivered by a truck equipped with a crane located at the front/rear of the vehicle. Such vehicles will place the tank in a location closest to the excavated hole or in an area where the tank can be easily reached by an excavator. Using the correct lifting method, the PABS will be lifted and transported by an excavator to the excavated hole where it will be lowered into place.



PLEASE NOTE:

- Tanks should not be lifted over houses, sheds or other property of value, nor should they be lifted under low power lines
- Tank sites that are cut out of sloping hills will require enough flat area for the truck to be unloaded
- Unloading on awkward and dangerous sites will be at the driver's discretion. Safe and clear access is the responsibility of the property owner/builder.

7. INSTALLATION

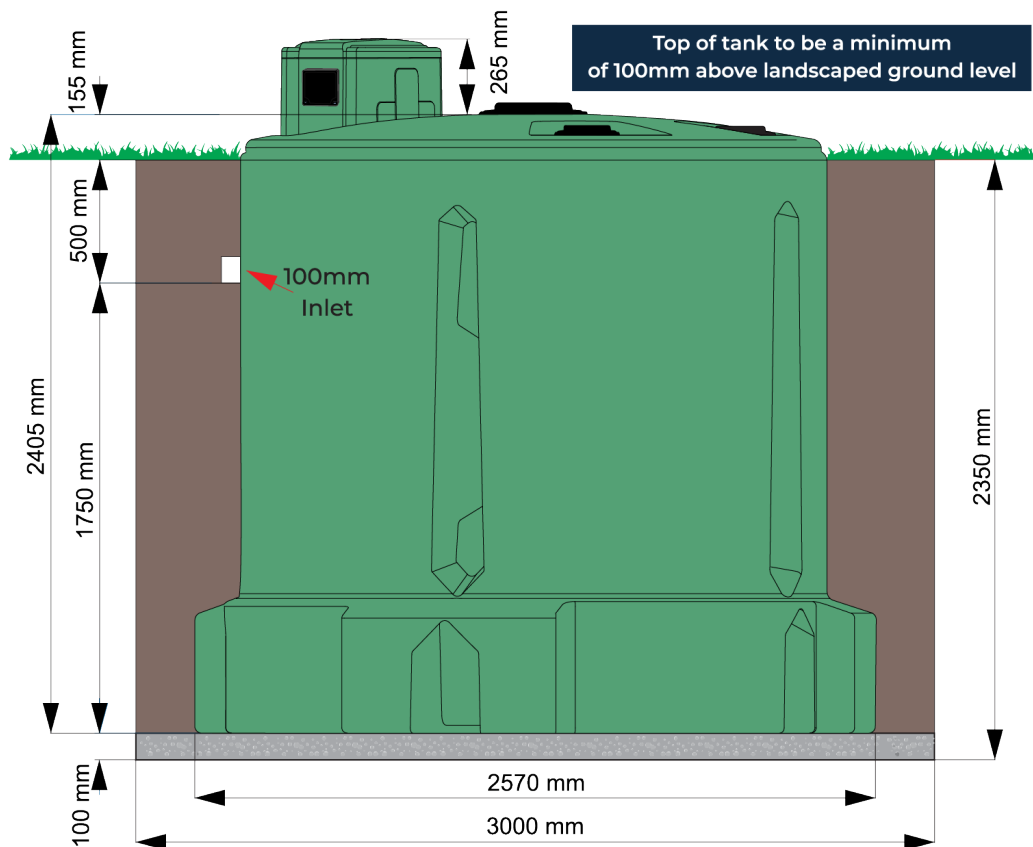
Always ensure the installation location include the future landscaping provision allow for the diversion of stormwater and surface waters away from the system.

The PABS comes with just 1 invert positioned 500mm below ground level

	Width	Height	Inlet Height (from bottom of tank)	Inlet Depth (from ground level)	Required Base (5-7mm Drainage Gravel/ Sand)	Hole Width	Hole Depth
PABS STD*	2400/2570	2405	1750	500	100	3000	2350

* Refer to Excavation & Lifting Instructions on Pages 8

STANDARD Taylex PABS



- Except for person/s responsible for lifting and positioning of the tank in the excavated hole, there must not be any person within 20m of the installation site during the lifting and positioning of the tank.
- Excavation Instructions show excavated walls to be perpendicular. However, depending on the soil conditions, the excavator may need to batter or retain the side walls to ensure they don't cave in during installation.
- Level the base of the hole using an excavation bucket with a laser level attached.
- The PABS must be level in both inflow/outflow direction and 90° to the inflow/outflow direction (<1° deviation).
- Evenly fill the system with approximately 7,000L of water through the centre Aeration Chamber to prevent movement through the ground as the water pressure enters the system.
- Backfilling - Use sand or excavated material/spoil with maximum particle size of 50mm. Backfilling of excavation to be completed in not more than 500mm equally distributed layers around the tank perimeter. Ensure that sand or excavated material does not fall on the lid of the PABS as this will fall into the system through the manholes and clog the system and irrigation pump. Ensure that the backfill material is kept at least 100mm below the surface of the systems lid.
- Organise drainage contractors to connect to the system. The drainage connection is a standard 100mm PVC sewer inlet.

Refer to Excavation Instructions on Page 7.

8. ELECTRICAL CONNECTION

- The electrical contractor must follow the electrical specification supplied with the PABS system
- Ensure all electrical works are only completed by licenced persons
- Ensure all electrical work is completed and compliant with AS/ANZ 3000

Refer to Electrical Connections Diagram on Page 8

9. COMMISSIONING

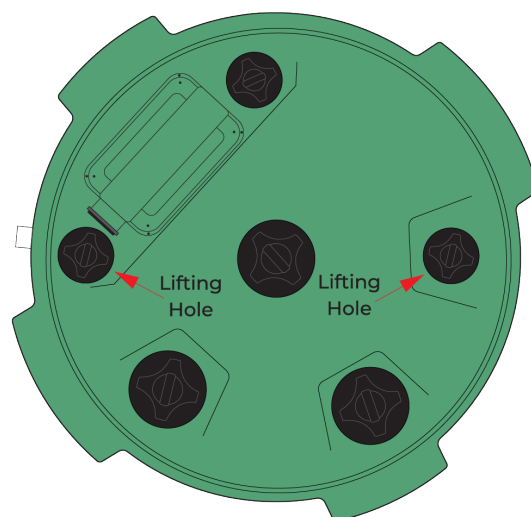
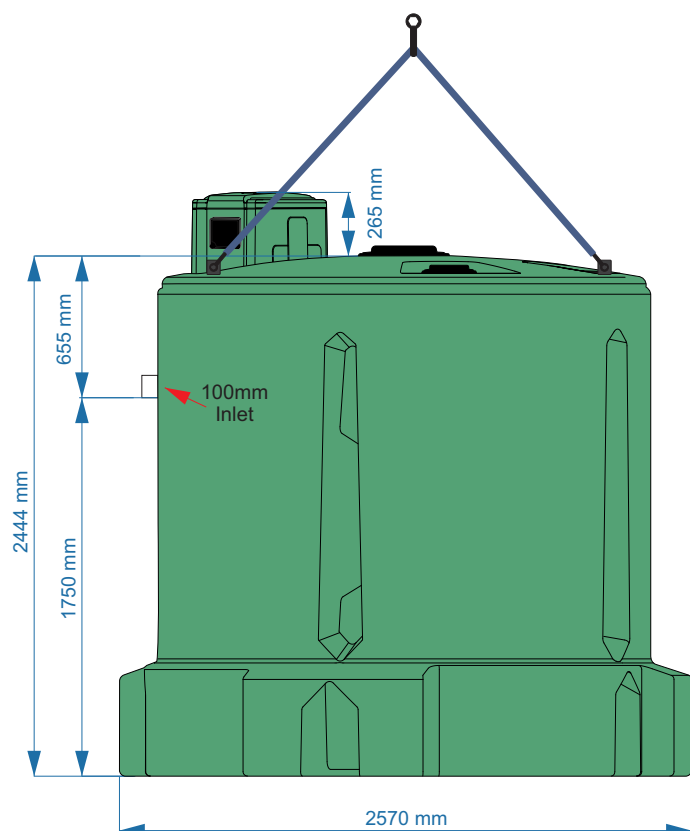
Please ensure the following is completed prior to having the system commissioned

- ✓ Effluent Disposal area is installed
- ✓ Effluent Disposal Area feed line is connected to PABS
- ✓ Electrical power is connected
- ✓ Drains connected

***IMPORTANT:** The Taylex PABS System cannot be commissioned unless power is connected to the system.*

The PABS will then be switched on (commissioned) by an Employee of Taylex Australia, a Taylex Accredited Wastewater Specialist (TAWS) or a Taylex Accredited Service Technician (TASA).

Poly ABS Lifting Instructions



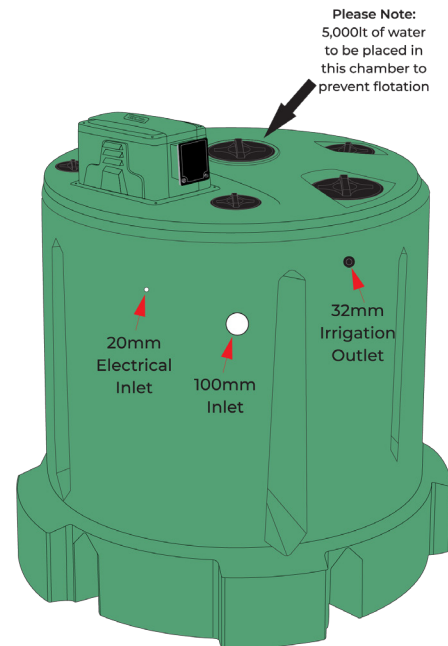
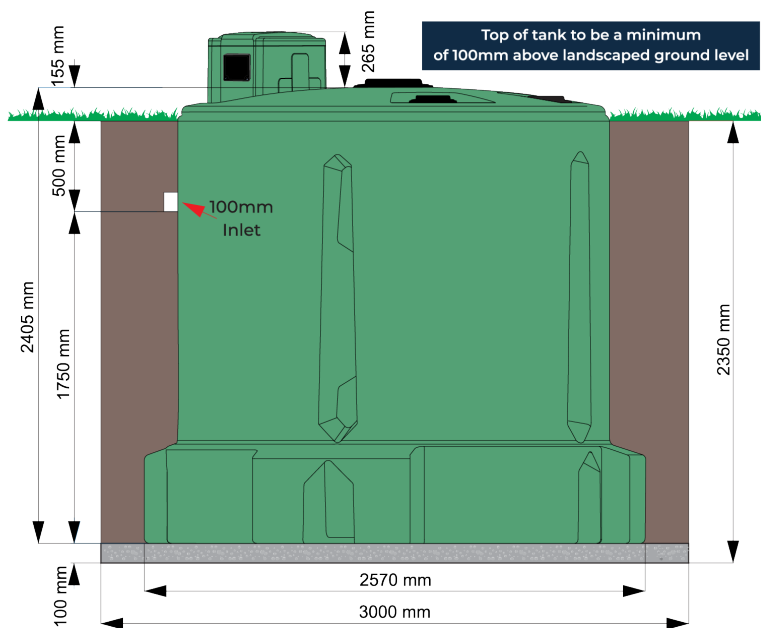
Lifting Instructions

1. Remove access lids from the designated lifting holes provided.
2. Place the steel lifting bars through the lifting holes.
3. Take up tension on sling or chains.
4. Check that the lifting bars are in the correct placement.
5. Place Poly ABS in hole.
6. Release tension and remove the bars.
7. Replace access lids.

Please Note:

Dry weight of Poly ABS is 470Kg. Allow 600Kg as tanks are tested prior to dispatch.

Poly ABS Excavation



Excavation Instructions

1. Dig hole 3000mm square & 2350mm Deep.
2. Ensure drainage has a 1/60 fall to the inlet of Poly ABS.
3. Cover base of hole with 100mm of 5mm to 7mm drainage gravel or sand.
4. Ensure bottom of hole is level.
5. To prevent flotation fill the Poly ABS with 7,000lt of water immediately through hole above the centre of aeration chamber (see diagram above).
6. Backfill with soil from Excavation in no more than 500mm equally distributed layers around the tank. Ensure there is no backfilling with particles larger than 50mm.
7. Ensure top of gravel/sand is 1750mm to bottom of inlet.

Electrician

Connect through conduit on side of Poly ABS. Run wire (min 2.5mm) through the flexible conduit provided and up into the switch located in the blower box. Active - Neutral - Earth. (Electrical Connection Diagram Available).

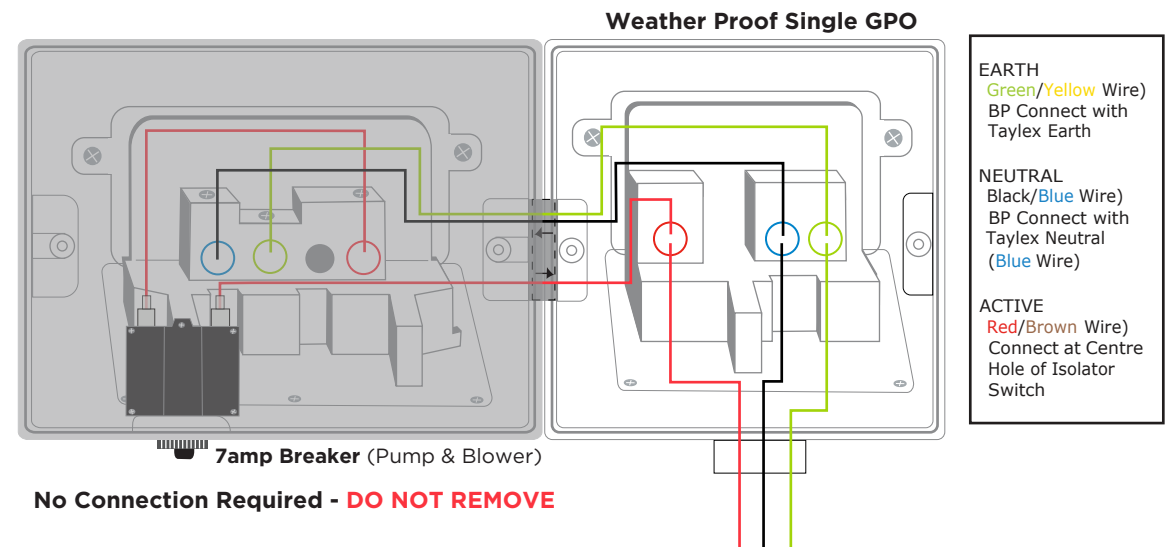
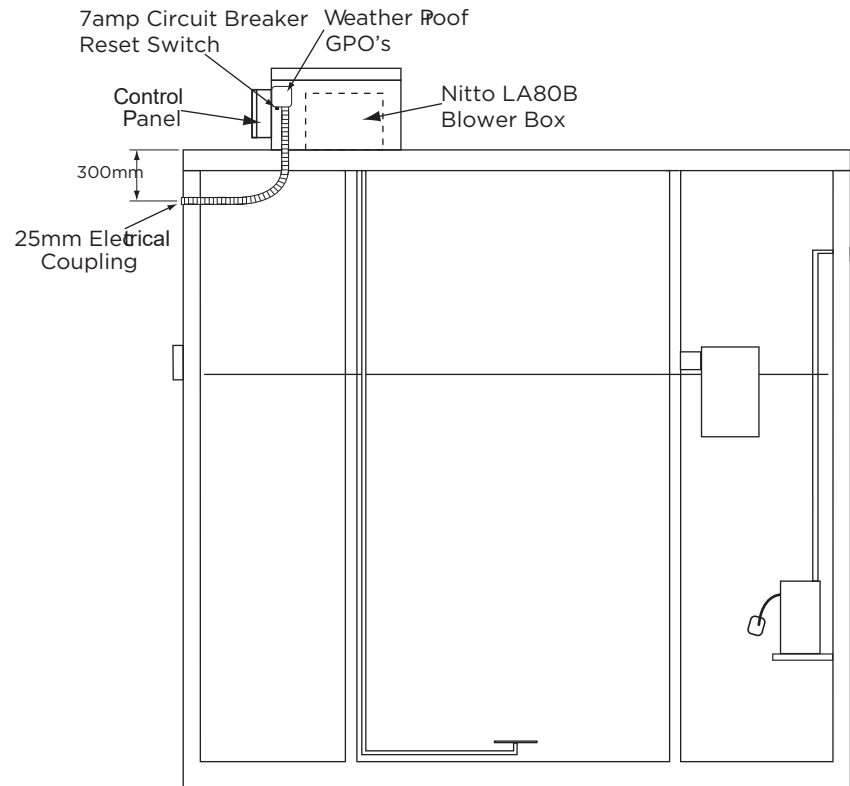
Delivery & Access

Delivery of the Poly ABS can be completed by a crane truck or trailer and unloaded in a location accessible by a machine/excavator or placed in the hole provided there is enough room for the crane truck to manoeuvre safely. If unloading with a machine/excavator, ensure it has a minimum lifting capacity of 600kg.

Taylex Electrical Connection Diagram

IMPORTANT INSTRUCTIONS

- Dedicated 10amp Circuit Breaker in power board (Taylex® Best Practise)
- Hardwired with 2.5mm wire (ANE) Active, Neutral, Earth to Weatherproof GPO located in blower box
- Connect the 12V to 240V power supply plug to the single GPO
- Connect the 2 plugs (pump and blower) to the double GPO's
- Turn all 3 GPO Switches ON



Electrician

- Connect the incoming mains with the existing wires that connect to the double GPO, ensuring the correct polarity is maintained.



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TITLE:

TAYLEX ABS+ABNSNR ELECTRICAL
CONNECTION DIAGRAM

DATE:

01/01/2023

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