

This lightweight advanced secondary wastewater treatment system is perfect for sites with difficult access or where cranes are not easily available.

10 Year Warranty

Every TWS System is covered by a full manufacturer's warranty. There is a 10 year warranty on the plastic single piece 5 chambered tank and a 2 year warranty on all electrical and mechanical components including the irrigation pump.

Warranty applies from the date of commissioning or 90 days from the date of installation (whichever is sooner).

Technical Specifications

Working Volumes

Total height	2,670mm
Inlet invert (from base)	1,750mm
Tank footprint	dia 2,570mm
Max. dry weight	470kg <small>(allow 600kg as all tanks are water tested)</small>
Max. hydraulic loading	2,000L/day 10 person
Operating capacity	6,066L
Total tank capacity	7,100L

Construction

Manufactured in polyethylene plastic.

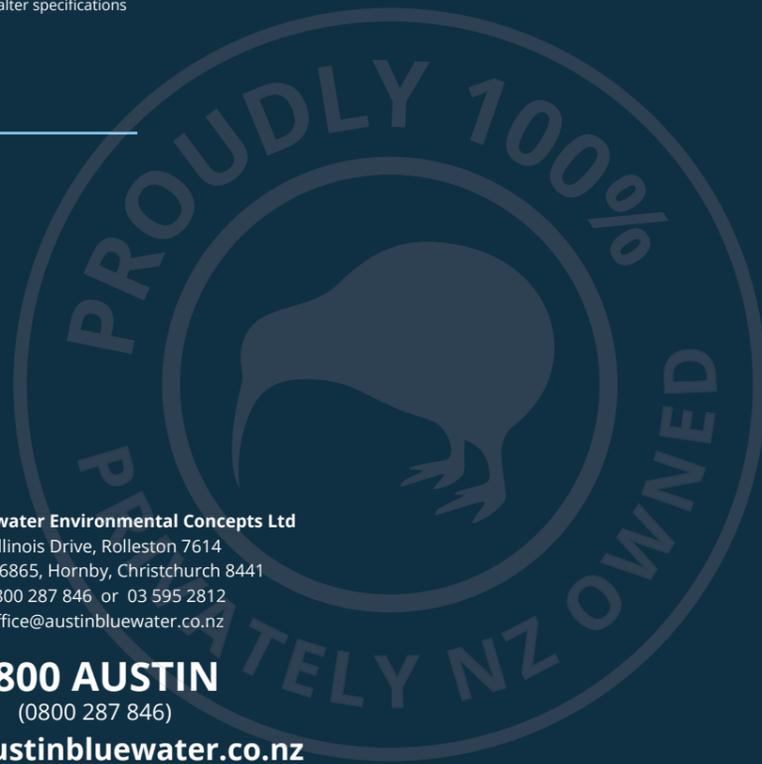
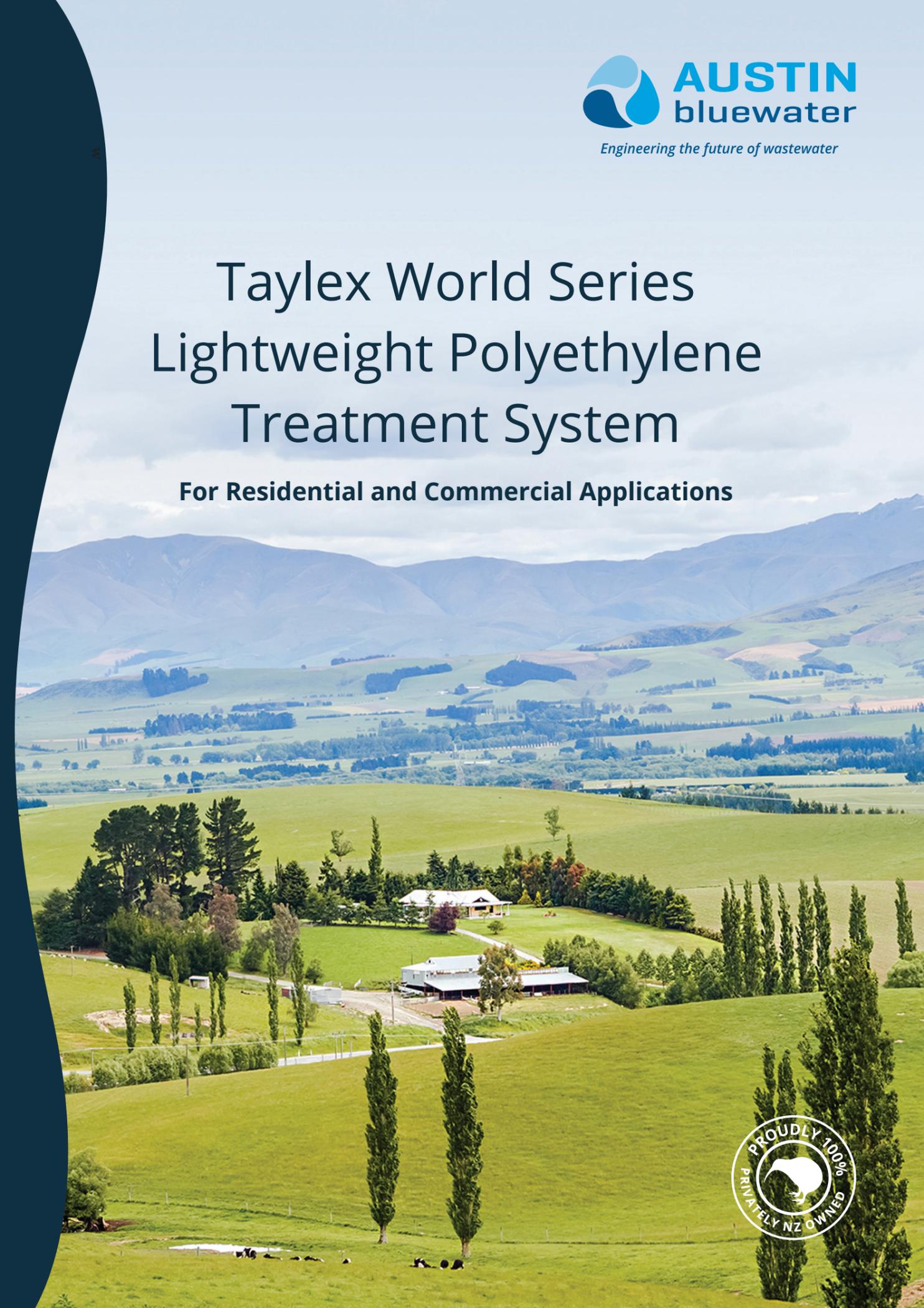
Note: Consistent with our policy of product improvement, we reserve the right to alter specifications without notice.

Certification

Manufactured to AS/NZS 1546 and 1547 standards.

Taylex World Series Lightweight Polyethylene Treatment System

For Residential and Commercial Applications



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Advantages of the Taylex "World Series"

The system is specifically designed and rotomoulded as a one piece tank using sandwiched closed cell polymer foam to make tanks light, strong and durable, with no sealants, glues or flimsy internal materials for walls or panels. This system is designed to last the lifetime of your house, and because it is one piece construction, it allows for ease of installation.

Taylex "World Series" uses only the highest quality materials to ensure long lasting products. Linear air blowers used in our system are designed to last twice the life of comparable diaphragm blowers and with less maintenance. Our controllers are designed for functionality and self diagnosis. An alarm code will be displayed if anything abnormal occurs within the system. A phone call to your local service technician may be all that is required to rectify the situation saving you time and money.

We only use products that will withstand the harsh environments they are working in. All electrical products, such as the aerator, irrigation pump and controller use 3-pin plugs for ease of replacement.

The Taylex "World Series" System is a natural organic system which employs nature's own resources to reduce wastewater to a clear, odourless liquid in 24 hours.

It treats all household liquid wastewater turning it into reusable water suitable for irrigation.

- One piece rotomoulded system
- No joins or glued in compartments
- All partitions extended to top of tank
- No internal leakage resulting in poor quality effluent

The 5 Step Process

- Step 1:** All wastewater from the home flows by gravity into the primary pre-treatment chamber of the TWS, and then into the secondary pre-treatment chamber by way of a mid-water take off. Solids are allowed to settle to the bottom of these chambers and a crust forms on the top. This naturally occurring crust stops odour from escaping from these chambers. Anaerobic (no oxygen) bacteria establish themselves in these chambers and partially digest the organic matter. Any untreatable and potentially harmful solids are retained within these chambers. The mid-water liquor between the bottom sludge based layer and the surface crust then flows by displacement into the aeration chamber.
- Step 2:** Air is introduced into the aeration chamber by way of a small Aerator with an air diffuser located at the bottom of the chamber. Aerobic (oxygen loving) bacteria proliferate and digest most of the remaining organic material. Fixed biomedica assists the retention and growth of the biomass.
- Step 3:** The liquid then flows into the clarification chamber for final settling. Sludge is removed from this chamber via an air sludge lift and is returned to the primary pre-treatment chamber for further treatment.
- Step 4:** The treated effluent passes through a plate filter to settle out any floating solids. The treated effluent is stored in the irrigation chamber until sufficient water activates the automatic submersible irrigation pump via a float switch.
- Step 5:** The automatic irrigation pump discharges the treated effluent to the irrigation field for reuse in the environment.



Self-Anchoring
Advanced System

Sectional view of plastic tank internal showing one-piece construction.

Sandwich closed cell foam polymer - lightweight and strong

