TRIANGLE FILTRATION & IRRIGATION

WASTEFLOW®

Subsurface Waste Water Disposal & Re-use Drip Irrigation System

TEN YEAR WASTEFLOW® WARRANTY

The Ultimate Subsurface Irrigation Disposal System you can specify and use with confidence

WASTEFLOW®

Designed specifically for subsurface use.

WASTEFLOW® subsurface systems have been specifically designed for the on-site disposal and re-use of secondary treated sewage water.

The combination of the latest drip irrigation technology and **ROOTGUARD®** drip emitters, allows the safe burying of the dripline in the most biologically active layer of soil. Root intrusion, the most important issue when burying water emission devices, is addressed and solved by using the patented and proven **ROOTGUARD®** treated drip emitters. These emitters are specially moulded with a slow release non-toxic inhibitor that stops plant root growth around the dripper.

This protection is critical to the long term reliability of the system, and comes with a 10 year warranty, with a likely life of 20+ years.

W**ASTEFLOW®** also features an anti- bacterial lining on the inside of the entire dripline length. This reduces adhesion of bacterial slimes and algae on the inside walls of the dripline tube.

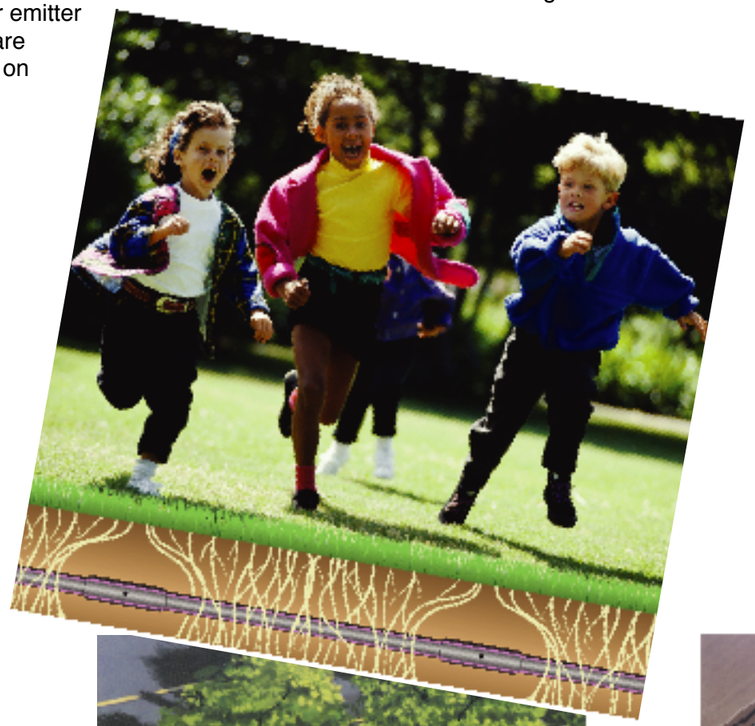
Without this anti-bacterial lining these slimes and algae can grow, dislodge, and block downstream emitters, thereby causing system failure.

Wasteflow is available as 4.0 l/hr "Classic" (non-pressure compensating) for level sites, and 2.4 l/hr PC (pressure compensating) for sloping sites.

HOW IT WORKS

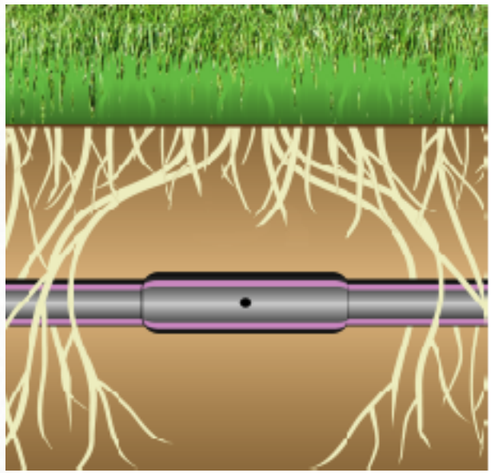
The water is dispersed through a network or grid of 16 mm polyethylene dripline. The emitters are pre-inserted and spaced along the entire dripline at 60 cm spacing. The emitters have an output of 2.4 (PC) or 4.0 litres per hour.

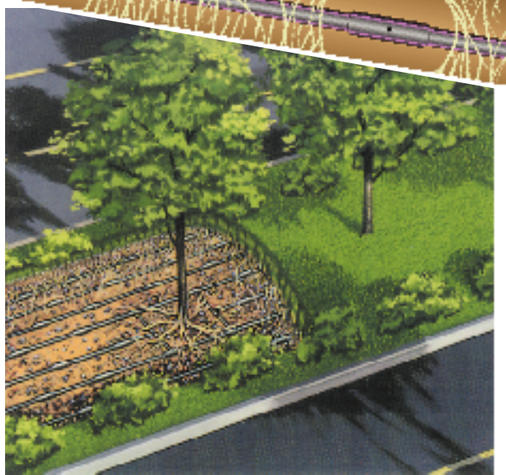
The dripline is buried 15 - 20 cm under the ground surface. Other drip lines (laterals) are buried 0.6 - 1.0 m apart. The entire network or grid must be pressurised to a minimum of 100 kPa (10 m HD). (Larger diameter tube and other emitter spacing are available on request).

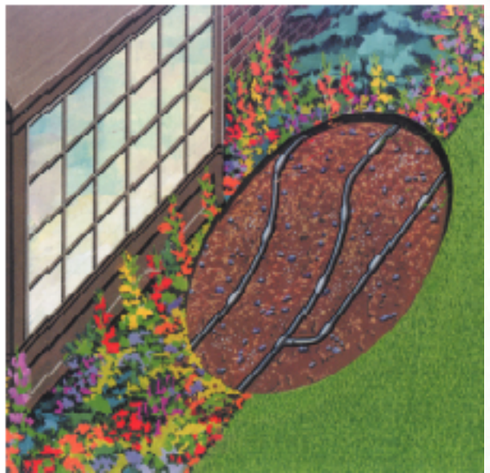


ADVANTAGES

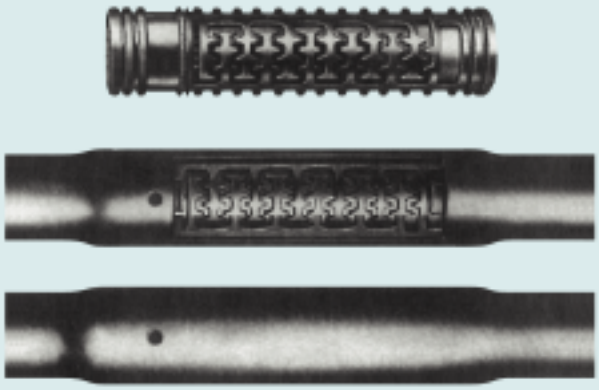
- Waste water is applied and dispersed uniformly over the entire area for even absorption, distribution and transpiration.
- Nutrient take-up by the surrounding vegetation is maximized as the water is utilized for irrigation.
- Health risks are eliminated as bacteria, viruses and pathogens are not applied to the surface. Soil microbes consume any residual bacteria and organic matter.
- There is no surface water run-off, or ponding that can contaminate surface water streams with nutrient laden treated effluent, which can cause pollution and algae blooms.
- Surfaces can be utilised as recreation areas by humans and pets at all times whilst the system is in operation.
- The effluent water can be utilised to supplement irrigation requirements, under turf, landscaped areas and agriculture crops, thereby reducing potable water use.
- Installation site preparation and works are less disruptive and intrusive, with no excess soil for removal, or screenings required in trenches. The original site soil is used for backfilling.
- Small, odd shaped and sloping areas can be utilised.
- The entire system is underground and invisible, eliminating damage by lawn mowers, animals and children.
- No moving parts means low maintenance and high reliability.
- With the **ROOTGUARD®** emitters there is NO need to dose the system with noxious chemicals or restricted herbicides to stop root intrusion, and system failure.



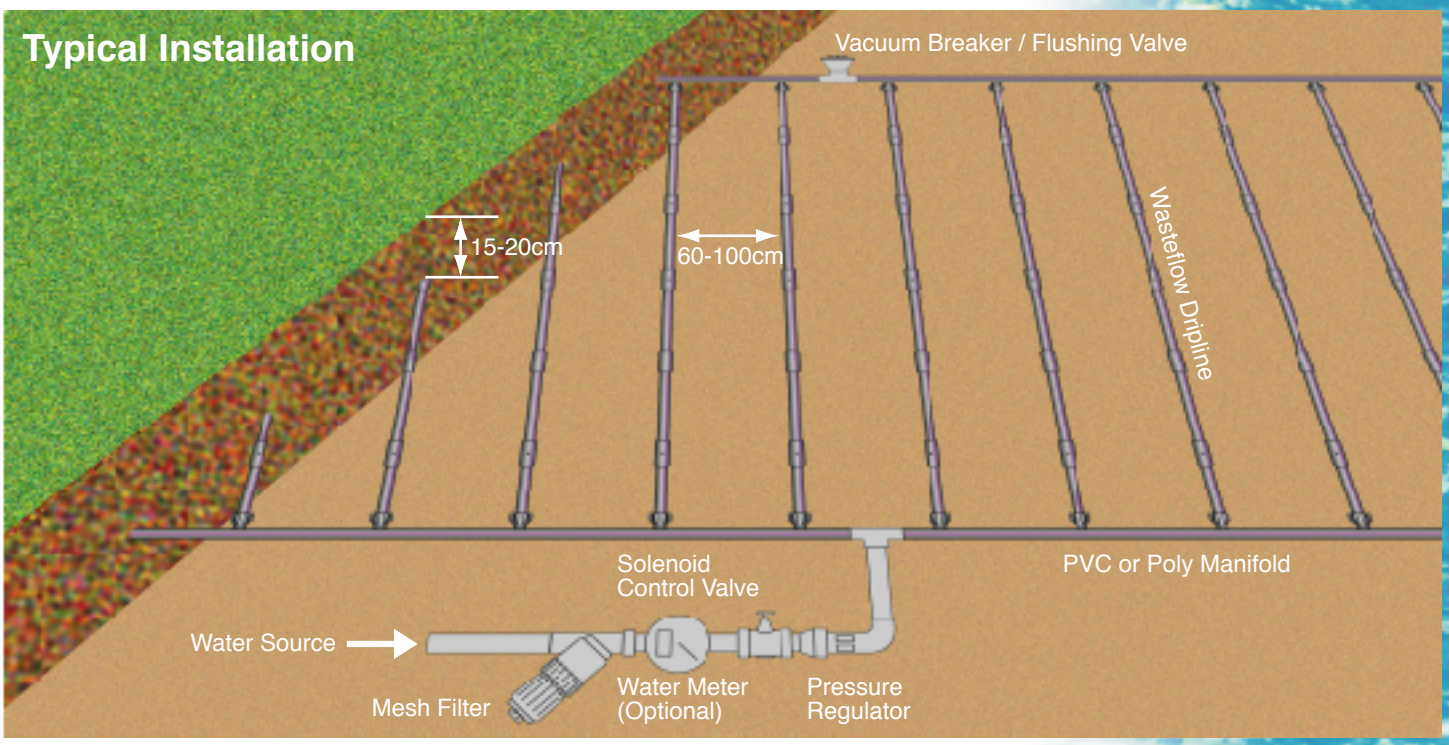




Turbulent Flow Path Emitter



Typical Installation



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