

SEPTIC TANKS
WASTEWATER
DETENTION TANKS
GREASE TRAPS
PUMP STATIONS
DOSING TANKS

PUT IT IN THE GROUND. FORGET ABOUT IT.

Not only do wastewater management products need to meet minimum standards, but they need to be user friendly and safe to work with, on and around.

As you would expect, there are robust standards surrounding the construction of underground vessels and regarding the quality of outfall from wastewater handling devices. Devan invested vast sums in ensuring that all standards are exceeded and continue to invest in research and development programmes to continuously improve on this standard. There are many companies selling

wastewater products in New Zealand and there are also many horror stories to go with them. If you take any advice from Devan, it is to ensure whatever product you invest in has proof of meeting the minimum standards. Its not just about the money spent, its about the environment and the hassle of taking corrective action if something goes wrong.



SUPER-TUFF TANKS

Australasia's top engineers and seemingly endless finite element analysis has delivered New Zealand's toughest underground vessels to the market. Certified to standard, these vessels will not let you down.

EASY INSTALLATION

Some vessels can literally weigh tons and require heavy transport solutions and cranes to manipulate into place. Devan underground vessels are light yet extremely robust meaning they can be easily transported on a car trailer and man-handled into position if no digger or crane is available.



SIMPLE FITTINGS

Although there has been years of research and development go into the design of Devan wastewater products, keeping things simple has always remained at the forefront of product development. Common fittings and components are used in the system which means any drain layer will be able to install the product and it is super easy to maintain.

FULLY CERTIFIED

With a growing list of 'cowboy' manufacturers in the market place it is extremely important to have independent certification regarding vessel strength and product performance. Devan have ensured that all wastewater products meet or exceed the relevant standard and are certified accordingly.



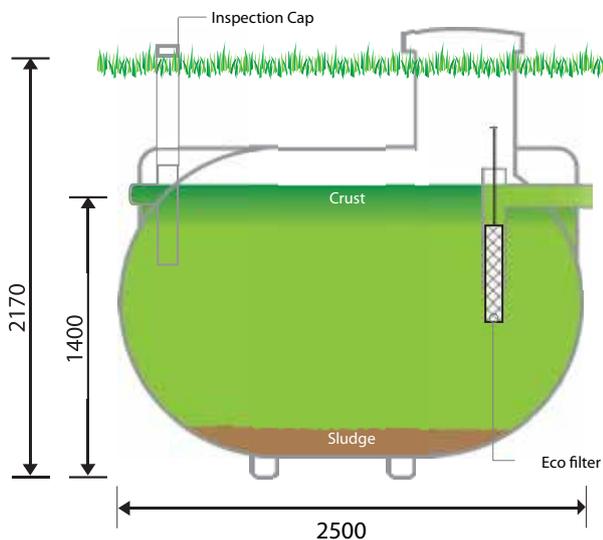
EXPERTS ON HAND

Many wastewater products have technical aspects to them and in order to properly support this product group Devan have on staff plumbers, drain layers and system designers to ensure you have the right advice from the relevant expert and are able to make informed decisions.



SEPTIC TANKS

Devan septic tanks are a popular choice both for new homes and retrofitting to older homes with failed tanks. Lightweight and easy to install there are no cranes or huge diggers required here.



Having a septic tank in your life is par for the course when it comes to rural living. A septic tank is an ingenious device and very cleverly and quietly chews away at your household wastewater. Many people do not give any thought to the fact that a septic tank is a living ecosystem and as a result treat it poorly. These people will find themselves with bad smells lingering around the house and frequently needing to empty their tank.

How does a septic tank work?

Simply yet effectively. The basic principle of the septic tank has remained unchanged for centuries. The tank receives wastewater outfall

from a building whereby the solids either settle to the bottom (sludge) or rise to the top (crust). Bacteria operate throughout the tank processing all the waste particles and after passing through a filter, the cleaner water is then discharged into your soakage trench.

How do I get a long life from my septic tank? Where a user is thoughtful about how they operate and what goes down the toilet and sink, a very long and trouble free relationship can exist between the dwellers and their septic tank.

The ecosystem living under your back yard is not particularly high maintenance if you follow these simple guidelines:

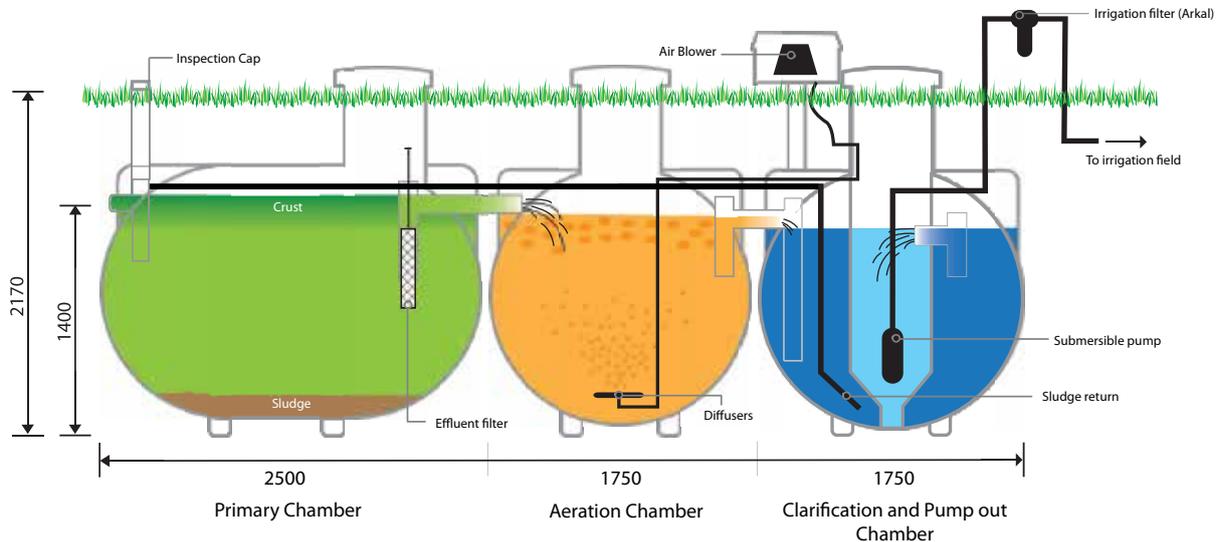
- Watch what chemicals you use in the house. Prefer septic 'friendly' products and stay away from bleach.
- Do not flush sanitary products or condoms down the toilet.
- Do not use a waste disposal unit.
- Eat lots of yogurt as the bugs in the tank love it!

There is a lot more information available online if you wanted to get technical, but these basics will put you in good stead.

YOU CAN HAVE
CONFIDENCE
IN DEVAN

WASTEWATER TREATMENT

Integra wastewater treatment systems are a user friendly way of treating your wastewater to a much higher level than septic tanks. Whether your council requires it, or you want to take better care of your immediate environment, there is an Integra system to meet your needs.



The Integra system is a large multi-chambered household wastewater system, fitted with a specially designed effluent filter on the outlet of the primary chamber which reduces suspended solids by up to 93% and uses flow balance surge control to avoid shock loading.

An air blower is used for the extended aeration process in the second chamber and for the return of activated sludge. This diminishes unnecessary extra pumps with high power consumption, costing the home owner more in operating costs in the long run.

The Integra system has four separate chambers, with over 8000 litres of treatment capacity to ensure the best possible treatment

of wastewater as it passes through the system. This prevents short circuiting of the liquid, known as cross flow contamination.

The Integra system also has a large wetted surface area of purpose-made biological filtration media in the aeration chamber to encourage growth of aerobic bacteria for the digestion of organic matter.

Final effluent filtration achieves a clean, clear, odorless liquid, which can be used for irrigation of landscapes to save on wastage of valuable clean water. Especially in rural situations where relying on rainwater is the main source for watering the gardens.

Benefits and Features

- Lightweight and easily containerised for shipping.
- Treats and recycles most household sewage and wastewater.
- Three separate units for varied installations, i.e. sloping areas.
- Modular design to suit most domestic and commercial needs.
- Extended aeration, activated sludge system.
- High effluent quality means a valuable resource rather than a pollutant.
- Low maintenance and running costs.
- Large lifting eyes to allow for certified shackles.
- Suits new installations or existing upgrades.
- AS/NZ 1456.1:2008 Compliant and Aerated Waste Standard check done.
- Smaller digger required for installation, reducing damage to surroundings.
- Continuous research and development.



Landscaped areas can be irrigated, saving precious drinking water.



The large Integra system in use at a council reserve for public toilets.

- tanks)
- Weight: 550kg
- Primary Chamber: 3600 litres
- Aeration Chamber 2100 litres
- Clarification Chamber: 2100 litres
- Irrigation Pump Chamber: 300 litres
- Normal Operating Capacity: 5500 litres
- Emergency Storage Capacity: 2000 litres
- Biological Effluent Filter fitted
- Irrigation Pump: Grundfos Hi Lift
- Air Blower: Gardner Denver

Compliance

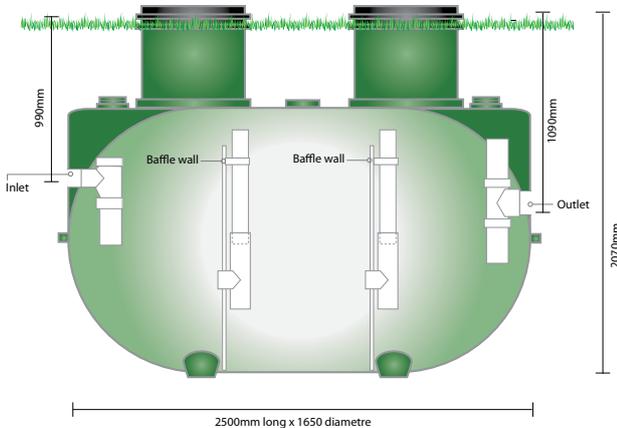
- AS/NZ Standard 1546:2008 standard
- AS/NZ 1547:2008 standard
- Rotorua OSET - NTP approved
- Design and testing carried out by Registered Engineers and Consultants



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GREASE/OIL INTERCEPTORS

Trade waste cannot enter local storm water systems or be discharged directly into the environment and to make intervention in the waste process easy, Devan have the perfect solution



Restaurants, takeaway outlets, car washes and any other applications that engages in the use or cleaning of oils and fats are, in many situations, required to trap these fats from entering the storm water system or environment.

Devan have developed a product line that accommodates this need with capacities ranging from 750 litres to 3600 litres, or more if required.

Designed by plumbers for plumbers, Devan have a grease trap solution for any application.

Size Options

- 750 litres
- 1500 litres
- 3600 litres

Key Features

- Large capacity options means less maintenance requirements
- Lightweight for ease of transport and installation
- Easily accessible large manhole for cleaning and inspection
- Multiple venting options

Made of a robust underground grade of polyethylene the Devan Grease Trap is lightweight and easy to install without the



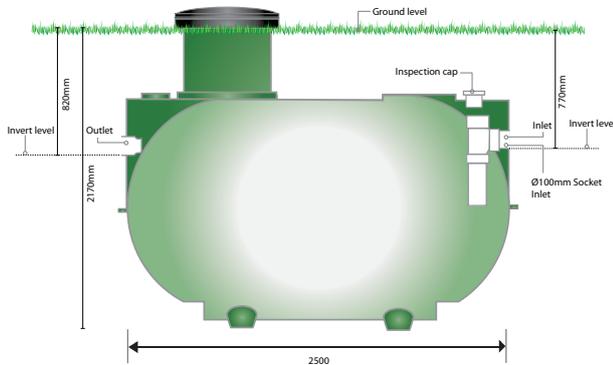
Commercial kitchens require a trap for fats and oils.

need for a digger or crane to lower the grease trap into place.

These products have been designed for both above ground and underground applications to suit any situation.

STORM WATER RETENTION/DETENTION

Whether your new home is required to detain its storm water run-off as part of your building permit, or you are sick of water rates and want to make use of the water pouring down the drains, Devan have a range of water tanks for this purpose, both above and underground.



In some regions the local authorities require that dwellings detain storm water whereby the rainwater run-off from the property is interrupted prior to reaching the local storm water infrastructure. This is done by storm water being first received by a detention tank which only allows the water to be released into the storm water system via a 25mm outlet, therefore diminishing the need for local infrastructure to cope with sudden overloading.

Alternatively there is a growing desire from water rate payers and sustainability minded individuals to retain and make use of storm water run off from their property to make use of the water around the home.

The Devan storm water detention tank meets all local authority requirements, is lightweight and easy for your local drain layer to install. The same vessel can be used for retaining rainwater underground for use in watering gardens, washing cars or even flushing the toilet.

Devan detention and retention tanks are available in 750 litre, 2100 litre and 3600 litre capacities and enjoy the same 15 year



Rain is a precious resource that can be harnessed.

manufacturers warranty as other Devan waste water products.

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LIGHTWEIGHT PUMP STATIONS

When you find that gravity is not working for you, Devan has a range of ready to go light weight pump station options with controller, high level alarm and pump included.

There are three underground pump station solutions to choose from 750L, 2100L and 3,600L.

The tanks can be fitted with 230V macerating, grinding or vortex pumps to best suits you needs.

All units are supplied with an electrical controller that incorporates overload protection and a high level alarm in case of pump break down.



Benefits and Features

- Lightweight and easily containerised for shipping.
- Smaller digger required for installation, reducing damage to surroundings.
- Easily accessible large manhole for cleaning and inspection



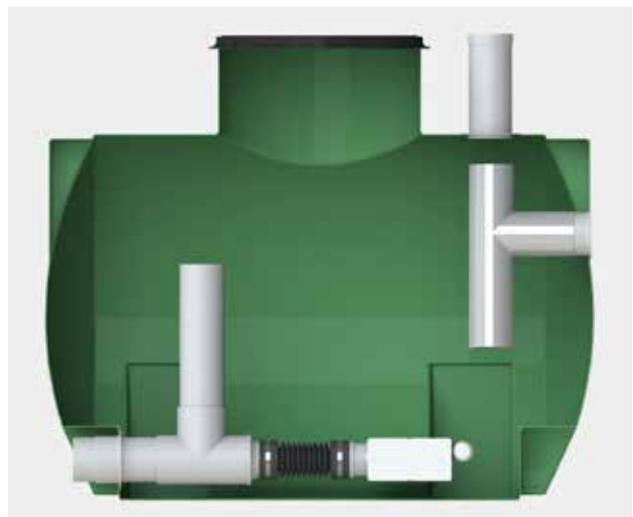
DOSING TANKS

Ensure you soakage trenches are used to their full potential with a dosing solution from Devan.

The Devan 750 Litre dosing tank is made from super tough polyethylene and incorporates the Flout dosing unit that is a simple non dribbling dosing component made in the USA.

The tank is made out of UV stabilized polyethylene to protect against degradation from the sun and can be installed above or below ground.

Each flushing cycle automatically releases 200L of effluent in to your soakage trenches using gravity, no power required.



Tauranga Factory & Sales

PO Box 2602
125 Birch Avenue, Judea
Tauranga
Phone: 0800 338 268
Email: tauranga@devan.co.nz

Christchurch Factory & Sales

PO Box 16720
26 Columbia Avenue, Hornby
Christchurch
Phone: 0800 500 026
Email: christchurch@devan.co.nz

Buy online or find more information @ www.devan.co.nz