Evertrench Polymer Trench Liner
Below-ground waste-water disposal and soakage trench system

Exceeds Australian standard requirements of total area of transfer holes per metre.

Meets regulatory authority requirements for use throughout Australia.

Suitable for virtually any site and layout combination where trench disposal is permitted.

Accepts all forms of treated domestic waste-water, where local authority permits.

Fast and easy to install.

Strong, durable corrugated design and injection moulded polymer construction.

Available in three sizes to suit most applications.

Also suitable for below-ground stormwater disposal.

www.everhard.com.au
National Customer Service Number 13 1926
Easy installation. Efficient operation.

**Evertrench Polymer Trench Liner** is widely regarded as one of the best systems now available for the disposal of waste-water in unsewered areas. With Evertrench, family health is protected by providing safe and efficient disposal of waste-water from the kitchen, bathroom, laundry and septic system.

**Easy to Handle and Install**

Evertrench is injection moulded high quality polymer in lightweight lengths of 1.5 metres, enabling easy installation by one person. The corrugated design means sections can be easily interlocked using no extra parts or tools.

Evertrench is suitable for virtually every site and layout combination. Trenches must be designed to meet the needs of the waste-water system and to suit the condition of the soil. Evertrench is available in three standard sizes to match most requirements.

Follow the step by step instructions (on the back of this brochure) and you’ll find installing Evertrench is simple, speedy and safe.*

*Check State or local regulations for specific requirements.

**Superior Operational Efficiency**

Unlike traditional trenches, which are filled with rubble or crushed rock, Evertrench provides 100% uncluttered temporary waste-water collection and storage.

The entire arched interior space of Evertrench is available to hold fluid and then dispose of it through the trench floor area and through the ø16mm punched holes in the side walls.

Evertrench also out-performs slotted pipe by allowing quicker dispersion of fluid to surrounding aggregate and soil for transpiration or evaporation, with less risk of blockage.

Totally efficient, free-flowing waste-water disposal – it’s hard to go past Evertrench.

**Strong and Durable**

Evertrench Polymer Trench Liner, correctly installed, is capable of supporting loads of 400kg over each metre of length. The continuous corrugated design offers excellent structural strength, while the injection moulded polymer is extremely resilient and tough. It is also sufficiently UV stabilised for protection whilst in storage. Installed correctly, Evertrench will provide many years of safe, efficient, troublefree operation.

<table>
<thead>
<tr>
<th>Evertrench Type</th>
<th>Product Code</th>
<th>Dimensions (mm)</th>
<th>Kg</th>
<th>End Cap Product Code</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Code</td>
<td>Length of Unit</td>
<td>Overall Depth</td>
<td>Overall External Width at Base</td>
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<tr>
<td>Small</td>
<td>82010</td>
<td>1500</td>
<td>230</td>
<td>500</td>
</tr>
<tr>
<td>Large</td>
<td>82020</td>
<td>1500</td>
<td>350</td>
<td>500</td>
</tr>
<tr>
<td>Jumbo</td>
<td>82030</td>
<td>1500</td>
<td>410</td>
<td>500</td>
</tr>
<tr>
<td>Spreader Bars</td>
<td>82900</td>
<td>1500</td>
<td>(optional)</td>
<td></td>
</tr>
</tbody>
</table>

Dimensions may be subject to minor variations during postmoulding cooling and/or transport.
Everhard manufactures and supplies a complete range of septic system components:

- Septic tanks
- Risers and baffles (if required)
- Grease traps
- Xtratreat filter
- Pump wells
- Distribution boxes
- Evertrench
- Geofabric

Everhard's UV stabilised Polymer Septic Tanks and lids are lightweight, yet extremely strong and durable and provide a lifetime of safe and efficient use. The Tanks provide large capacities for efficient settlement and treatment of septic effluent and are available in 2500L, 3000L and 4000L.

Weighing less than 150kg, the tank can be easily positioned and installed by a plumber or drainer without requiring mechanical lifting equipment.

Everhard’s Polymer Septic Tanks can be supplied in ‘kit’ form for easy and economical transportation to all local, rural and regional areas. The kit includes inlet and outlet junction, seals, inspection and access covers and stainless steel fixing screws, together with detailed assembly and installation instructions and maintenance schedules.

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Everhard’s 45 Litre injection moulded polymer Grease Arreoter is ideal for domestic grey-water situations, where it eliminates or reduces the presence of unwanted matter in sanitary drainage systems.

The Xtra Treat™ septic tank outlet filter significantly improves the quality of effluent leaving the tank by preventing the passage of any particle larger than 3.5mm in diameter. This drastically reduces the level of solids leaving the tank, ensuring better anaerobic digestion in the tank as well as prolonging the life of the dispersion trenches.

Distribution Boxes are available with weir baffles to divide flow evenly. Made from injection moulded Polypropylene which is durable and tough, with additives for resistance to UV degradation. Pre-cut holes for DN100 uPVC pipes (inlet and two side outlets) and their light weight makes them easy to handle and simple to install.

Where septic systems are not practical, the Everhard Aqua-nova Aerated Wastewater Treatment System offers safe re-use of wastewater.

Genuine Everhard Spreader Bars are an integral part of the Evertrench system, adding strength to the trench whilst being lightweight and easy to handle. When correctly installed, they will prevent the trench collapsing, buckling or bowing.

Geotextile, Everhard Trench Liner Spreader Bars and End Caps are readily available to suit every installation.

Accessories for Optimum Performance

Evertrench is designed for use with proven Geotextile fabric. This woven plastic cloth allows liquid to pass through the trench, whilst preventing the ingress of soil from the outside. Highly durable, Geotextile will not rot or deteriorate over time.

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Everhard Industries recommends the following installation procedures for its range of Evertrench Polymer Trench Liners. These have been found to be ideal for many normal domestic applications. Local conditions will affect the method of waste-water disposal, the size of the trench or bed, and the type of Evertrench to be selected.

It should be noted that all layouts for waste-water disposal land application areas must be designed by competent and authorised persons, taking the following factors into account:

- The volume of waste-water, based on household size and appliances.
- The absorption capability of the surrounding soil.
- Limitations imposed by site conditions, such as slope, contours, etc.

Before beginning design and construction of the waste-water disposal system, check with State and local authorities for particular requirements for your area.

**METHOD 1: Absorption Trench**

These are generally limited to sites where soil is considered permeable enough to "soak up" the expected amounts of waste-water. The trench should be wide enough to accept the selected Evertrench Liner and deep enough so that the top of the selected Liner is at least 100mm below the soil surface level.

1. Excavate the trench along a level site contour to provide at least 100mm cover over the top of the Liner.
2. The trench floor should be level, evenly raked, and have no low spots which would allow "ponding".
3. Allow at least 75mm overlap for each length of Evertrench.
4. Ideally, three Spreaders Bars (optional) should be fitted into each standard Evertrench Liner, the first 220mm from the inlet end, then equally spaced along the excavation.
5. Cut the pipe entry hole in one Trench Liner End Cap. An EasyDRAIN™ Pit Boss may be used to ensure a secure connection. Fit the Caps to the Liner and connect the piping from the septic tank or sullage distributor.
6. Cover the Evertrench with Geotextile Fabric and place a quantity of 20-25mm aggregate material along the Trench Liner and at both ends, so that the top of the Liner is just covered. Rake level.
7. Lay Geotextile over the aggregate for the full length of the trench.
8. Cover the Geotextile with a layer of approved sandy loam and leave a mound for natural compaction. Turf may be laid over the trench area. DO NOT COMPACT the trench area or expose it to traffic.

**METHOD 2: Transpiration Trenches and Beds**

This method are generally used where local soil conditions cannot cope with the volume of waste-water in the normal narrow absorption trench systems. Transpiration encourages treated waste-water to be taken up by plant roots over a wide area, as well as permeating the soil, offering additional safety for soil absorption systems. Beds consist of standard width trenches that are deeper than normal, with the area above the selected Trench Liner of much greater width, and filled with aggregate to allow easier movement of moisture.

1. Excavate an area 1800mm wide and 300mm deep along a level site contour.
2. Excavate a central trench along the full length of the prepared area for the selected Liner. The top of the Liner should be level with the bottom of the prepared area. The floor should be level, evenly raked, with no low spots.
3. Carry out Steps 3, 4, 5, 6 & 7 listed for Method 1 (Absorption Trench).
4. Cover the Geotextile and floor of the wider excavation with 100mm of 10mm aggregate, then 100mm of coarse sand, and finally with sandy loam.
5. Leave a mound for natural compaction. Turf may be laid over the area. DO NOT COMPACT the area or expose it to traffic.

These drawings show two typical installation designs which use Everhard Evertrench. You should consult your local authority about the systems allowed in your area.