

# 600L/450L/250L PUMP WELL INSTALLATION MANUAL



## PRODUCTS TO USE THE PUMP WELL WITH

EI CODE	PRODUCT DESCRIPTION	DRILL GUIDE TO FOLLOW
82224	Universal Riser	1

## PARTS SUPPLIED WITH EACH PUMP WELL:

1. 1x moulded Plastic Pump Well Assembly
2. 1x moulded Plastic Access Cover
3. 6x Stainless Steel Screws
4. 2x standard elastomeric rubber rings for 100mm uPVC SWV pipe

## PREPARATION:

Ensure that:

- appropriate approvals have been given by local authorities.
- appropriately qualified persons, including electricians and plumbers, are employed to install and connect the pumpwell.

We recommend that all holes cut in the pumpwell are made leak proof using rubber o-rings (provided), rubber seals or bulk head fittings.

The pumpwell has three additional flat vertical areas that allow inlets to be cut into the pumpwell. These should be sealed with an appropriate rubber seal or silicon.

## SAFETY:

- Take care when working around excavated holes.
- Deep holes can be considered confined spaces. Consult with local/state laws and make provisions as appropriate.
- An empty pumpwell weights in excess of 42kgs. Take appropriate precautions when manually handling the pumpwell.
- Always use lifting holes to lower the pump well into the excavated hole

## SITE ASSESSMENT:

Take note of the invert heights of the available inlets into the pumpwell and ensure that the incoming 100mm drainpipe is appropriately supported and allows for wastewater to flow directly into the pumpwell.

Site **MUST** be away from areas susceptible to all vehicular and foot traffic.

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## THE EXCAVATION:

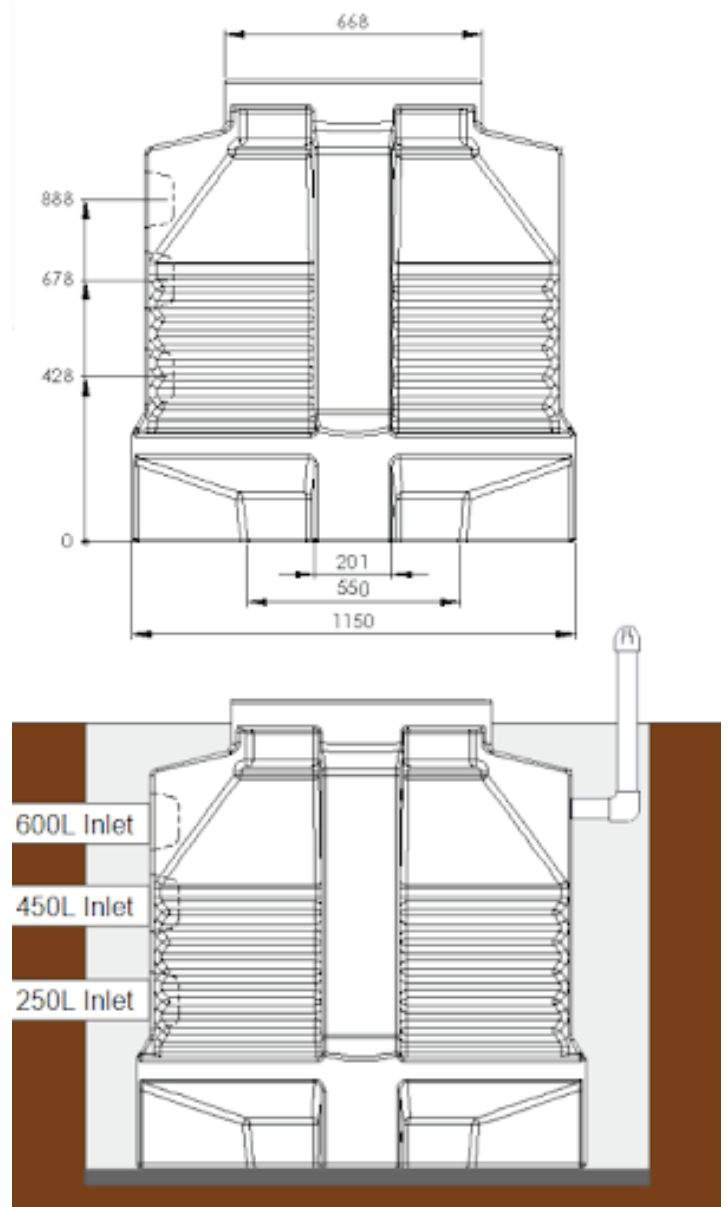
- Prepare excavation greater than 1500mm diameter up to 1300mm deep (Deeper holes may be used when a riser is fitted). Sides and bottom should be free from all intruding roots, stones, or other matter.
- Determine which of the inlet Connection Ports is to be used. This will depend on the depth of the pipe from the wastewater source at the point where it meets the Pump Well.
- Trench excavation should be widened for vent connection (see right) pumped water discharge electrical connections
- Line the bottom of the hole with 50mm of sand or 3mm pea gravel

## PUMPWELL PREPARATION:

- Cut out the Inlet opening selected using an appropriately sized hole saw.
- Venting of the upstream pipe is usually adequate for most installations. Where needed, a vent port to suit the required pipe size may be cut in the side of the pumpwell and may be secured using a bulk head fitting.
- Cut hole to accept selected pump discharge hose or pipe fitting. This hole is normally in any vertical face of the pumpwell. The size of the hole will be dependent on the diameter of the discharge pipe.
- Cut the hole to accept the glands selected for the electrical cable and flexible conduit. This should be close to the side of the Pump Well to minimise the exposed electrical conduit.

## POSITIONING AND FITTING OUT THE PUMP WELL:

- Remove the access cover and clear all cuttings from the interior of the pumpwell.
- Fit vent and discharge attachments as required
- Using the lifting holes, carefully lower the pump well into the excavated hole, seating the base of the pump well into the sand bed.
- Connect the 100mm drain pipe to the pump well.
- Fit out pump as required.
- Apply silicone bead the lid lip and Fit access cover ensuring all screws are secure.



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## BACKFILL:

- a) Backfill around the pump well, compacting as you go, ensuring that the pump well remains level and the pipe work is not damaged.
- b) In areas that are affected by high water tables, refer to Anchorage.
- d) Use excess soil to build a bund above the pumpwell to divert stormwater away from the installation.

## ANCHORAGE:

In high water table areas additional anchorage is required to prevent the pump well moving. A square concrete slab 1.35m x 1.35m is required to the depth of the underside of the pump well flange (0.22m deep). Insert a N12 steel rod into tie down holes at the base of the pump well to secure the pump well to the concrete slab.

## FURTHER RECOMMENDATIONS FOR INSTALLATION:

Where the required depth to the pipe invert makes the Pump Well lower than normal, the Everhard Universal Riser (82224) can extend the access opening to surface level. Following the Universal Riser Installation Guide to secure the Riser to the Pump Well.

## IMPORTANT NOTES:

"Pump Well" is a generic term for any vessel intended to temporarily store liquid before it is transferred by means of a pump to another location, perhaps for processing or long-term storage. The EVERHARD Polymer 600L Pump Well has been tested and found to comply with the Australian/New Zealand standard for vessels such as Septic Tanks and Collection Wells for use in domestic, and some other, situations.

It may be used to receive treated wastewater from a Septic tank for pumped discharge to a disposal area, or in applications where site conditions dictate that short-term accumulations of "All-waste", "Black-water" and/or "Greywater" (defined by AS/NZS 1546.1) wastes must be delivered to a treatment system by a suitable pump instead of free-flowing under gravity direct from the source.

Installers MUST check with your local authority to ensure that this pump well and usage will be permitted in your area before beginning plans for any installation.

The EVERHARD Pumpwell was designed for on-site treatment and disposal applications. It is tested for Standards Mark approval and does not carry WaterMark certification. Connection to sewer systems, and installation in sewered properties, may not be permitted by local authorities.

The EVERHARD 600L Plastic Pump Well has a number of features which make it an obvious choice for many installations. It is light and easily handled and worked with, while also being durable and tough. Produced from a blend of polymer that has been stabilised against ultra-violet light degradation, its physical characteristics allow the product to exceed the required performance criteria for the applicable tests in AS/NZS 1546.1.

EVERHARD Polymer Pump Wells are ideally matched for use with the range of EVERHARD Polymer Septic Tanks and Collection Wells, all produced in accordance with AS/NZS 1546.1. Other products available for domestic wastewater applications include the popular EVERHARD Xtra-treat Filter which can be quickly and easily fitted into the Outlet Fitting inside most Septic Tanks. These help prevent the discharge of solid particles suspended in the treated fluid. An Xtratreat Filter can greatly extend the service life of the disposal system. The EVERHARD range of disposal system equipment also includes effluent Distribution Boxes in Concrete and in durable, tough Polymers. These complement the cost-effective and very efficient Polymer EVERTRENCH Trench Liner for use in Evapo-Transpiration and Soakage treated waste-water disposal systems.