

# SERIES 450 DISTRIBUTION BOXES INSTALLATION MANUAL



In most domestic septic systems which incorporate an on site treated waste water disposal arrangement, partially treated fluid from the septic tank outlet is directed through underground piping to the final treatment and dispersal in evapo-transpiration trenches or beds, or other approved installations. Australian Standards AS/NZS1547 requires these to accommodate the expected flow from the treatment tank. They must have an adequate surface area to permit collected fluid to soak into the ground and be taken up by vegetation, without causing surface "ponding". The amount of ground area required will depend upon the size of the household and the permeability of the soil.

Where it is not possible to have a single trench or bed, then multiple, usually parallel, lines must be excavated. It will then be necessary to provide a means of splitting the flow of fluid from the tank to enable the waste- water to be evenly directed into each trench. This has traditionally been done by directing the pipe from the tank into distribution boxes, from which a number of pipes feed into each trench. The Series 450 Distribution Box is recommended for Septic Tanks that are 4000L capacity or larger.

## INSTALLATION

1. The pipe from the septic tank or treatment tank must have constant fall towards the disposal system. This dictates depth of pipe at distribution boxes where pipes to the trenches are laid. Distribution boxes should be installed as close as possible to the trenches.
2. An excavation hole approx 50mm deeper than the box outlet pipe invert is required. A layer of bedding sand should be placed and compacted and the box positioned so that pipes have the correct fall.
3. The incoming pipe must be fitted into the highest hole. Distribution boxes are manufactured with one incoming and two outlet holes, allowing the main flow to be directed to left and right. A third straight outlet can be cut on site using a holesaw. Should an outlet need to be closed, a short section of pipe with a cap can be fitted to one of the outlet holes.
4. Always use 100mm PVC pipe to connect from the septic tank to the distribution box. 100MM PVC pipe should be connected from the outlets on the distribution box to the trenches.
5. For pipe connections to the distribution box, Everhard recommends the use of the Pit Boss. The Pit Boss can be fitted to the distribution box by using stainless steel screws and glued to the 100mm PVC pipe using PVC cement. This provides a mechanical joint at the distribution box which prevents tree roots entering the disposal system.
6. The Series 450 Distribution box cover should be secured with stainless steel screws, driven horizontally, on opposite sides, through the cover and into the box.
7. The excavation around the box should be backfilled with a stabilised soil/sand mix and moderately compacted. Boxes must not be completely buried, as access may be required. If necessary, a standard 300mm high riser (80035) can be fitted to bring the cover up to ground level.