

Drainage Guide

Importance of Drainage:

Drainage is the most important aspect of container gardening and it's critical to plant health. It allows the water in the soil to drain freely so ample air is available for the roots.

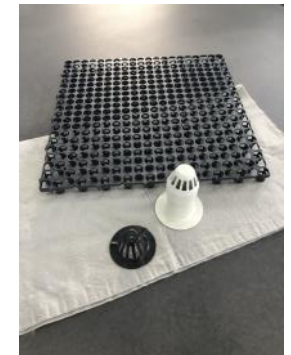
Healthy roots mean healthier plants. A lack of drainage is one of the most common causes of unhealthy and dying plants, as waterlogged soil can lead to root rot. This is a serious condition that plants rarely recover from. Signs of root rot include wilted and yellowing leaves and eventual leaf-drop. If the plant is removed from the container the roots will have a dark appearance with a slimy texture.

Excess water will also place additional pressure on the container base and sides and if drainage is not corrected surface cracks will appear. Note that even if the soil surface appears dry, the soil at the bottom of the pot may be saturated.

Quatro Design Drainage Aids:

All Quatro Design pots come standard with acrylic-based internal waterproofing and with drainage holes and aids already installed. The location, size and number of drainage holes relate to the size of the pot and its soil volume. The following drainage aids are covered with a thin layer of geofabric filterwrap to prevent the drainage hole/s from blocking whilst still allowing water and fine particles to pass through:

- **DrainEZE Drainage Hole Screen:** fitted to smaller bowls, pots and planters. Included in the product price.
 - **VersiFlex Drainage Cells:** fitted to large and over-sized bowls, pots and planters. Included in the product price.
 - **Drainage Regulator Riser:** used to raise the height of the drainage hole to minimise dripping (optional extra).
- (See our planting and drainage aid guides for more information on the above).



Example: Drainage Aids

After-Sales Drainage Hole Installation:

In some cases site conditions or project specifications may require the installation of drainage holes in our products after it has left our factory. The following guidelines outline best practice for creating drainage holes in Glassfibre Reinforced Concrete (GRC):

- We recommend a minimum drainage hole size of between 25 to 30mm. More than one drainage hole may be required per planter.
- Contact us for guidelines on the minimum size and number of drainage holes required in relation to the product that you've ordered.
- Use a regular drill with a masonry diamond core drill bit or a tungsten core masonry drill bit.
- **Do NOT use a hammer drill** (also known as a percussion or impact drill) as the pounding force generated by this type of drill causes substantial surface damage to GRC products.
- Ensure that the drainage hole/s are created within the drainage channels in the base of the bowl, pot or planter.
- Position the drainage hole/s approximately 10—30cm away from the sides of the bowl, pot or planter.
- The provision of a permeable screen or filler material at the bottom of the pot prevents the drainage holes from blocking whilst allowing water to pass through. Note we recommend using geofabric no finer than 110—80 micron.
- Please take a photo of the base of the bowl, pot or planter once the drainage hole/s has been installed and before filling with potting soil. This allows us to see if adequate provision was made to facilitate drainage during installation.
- **Failure to follow these guidelines and to provide photographic evidence of the drainage holes installed on site may void your warranty.**



Example: Masonry Diamond Core Drill Bit



Example: Tungsten Core Masonry Drill Bit