FREESTONE ECO

RETAINING WALL SYSTEM®

The Freestone ECO Retaining Wall System is a sustainable DIY retaining wall system which is manufactured with recycled glass aggregates to provide a unique smooth finish that shimmers in the light.

INSTALLATION GUIDE

Step 1 - Base Preparation

Dig out trench approx. 250mm deep. The trench should be 600mm wide. Place and well compact 150mm to 200mm of fine crushed rock (gravel). This base thickness depends on the wall height e.g. 200mm thick for 1 metre high, extra thickness for higher walls may be required, subject to engineers design.

Step 2 - Sand Bed

Spread 25mm of either sharp sand or metal dust over the compacted base.
This should be in a straight line and checked with a level. If the wall is stepped, start at the lowest point.

Step 3 - Laying 1st Course

The first block course is now bedded into the sand bed. The use of a level and string line is recommended to ensure that the first course is laid correctly. For walls up to 1 metre high, make sure at least 100mm of the first block course is buried below the finished ground level. Allow approx. 200mm for walls over 1 metre high and 300mm for walls over 2 metres high. Compact gravel along the front of the blocks to stabilise.

Step 4 - Drainage & Backfill

Place P.V.C. ag-pipe with a geotextile sock drain behind the wall, with a 1 in 100 fall. Backfill behind the blocks 300mm wide, with clean, free-draining material (eg. 20mm blue metal). Ensure that each block is also filled with free-draining material. Backfill behind the drainage layer with your chosen backfill material in a maximum of 200mm layers. Compaction rate of 95% must be achieved (use only hand operated plate compactors close to wall). Do not use soft or wet clay to backfill. Be careful not to mechanically compact too close to the wall.

Step 5 - Laying Additional Courses

Lay the next course and subsequent courses to a string line following the same procedure, as outlined previously, ie. clean the top of the blocks, fill the block cores and form a 300mm drainage layer behind the blocks, backfilling in max. 250mm layers, as per step 4. Ensure backfill is compacted to 95%.
Corner blocks require adhesive fixing with “Selleys“ Landscape Liquid Nails or Anchorloc 2-part epoxy.

Step 6 - Laying Capping Units

Once backfilling and cleaning is completed as per step 5, fix the purpose made Freestone ECO Capping blocks with adhesive. Selleys Landscape Liquid Nails or Anchorloc 2-part epoxy is recommended.

Step 7 - Sealing

To enhance the recycled glass aggregate whilst also minimising future maintenance, it is recommended that the Freestone ECO Retaining Wall including capping is sealed on completion with a reputable concrete sealer.