



ENVIROSCAPE™

Ground Reinforcing System

INSTALLATION GUIDE



IMPORTANT : PLEASE ENSURE THAT ALL RELEVANT PERSONNEL READ THE POINTS LISTED WITHIN THIS LEAFLET AND THAT A COPY IS GIVEN TO STAFF INVOLVED WITH THE INSTALLATION AND MAINTENANCE OF THIS PRODUCT.

Membrane

A Geosynthetic membrane (such as polyethylene or polypropylene sheeting) should be laid on top of the substrate to help prevent weed growth.

Gravel Only or Gravel and Topsoil Mix Foundation

Where a foundation is required we would recommend using a 6mm pea gravel or an aggregate with a void space of 30% or greater which will provide a firm base and allow for drainage of excess water.

Please note that when the Enviroscape Infill Material is gravel only or stone chippings the foundation requires to be made up of only compacted gravel. When the Enviroscape Infill Material is a sand and topsoil mix for grass growth we would recommend a gravel and topsoil mix foundation to allow for root growth and good drainage.

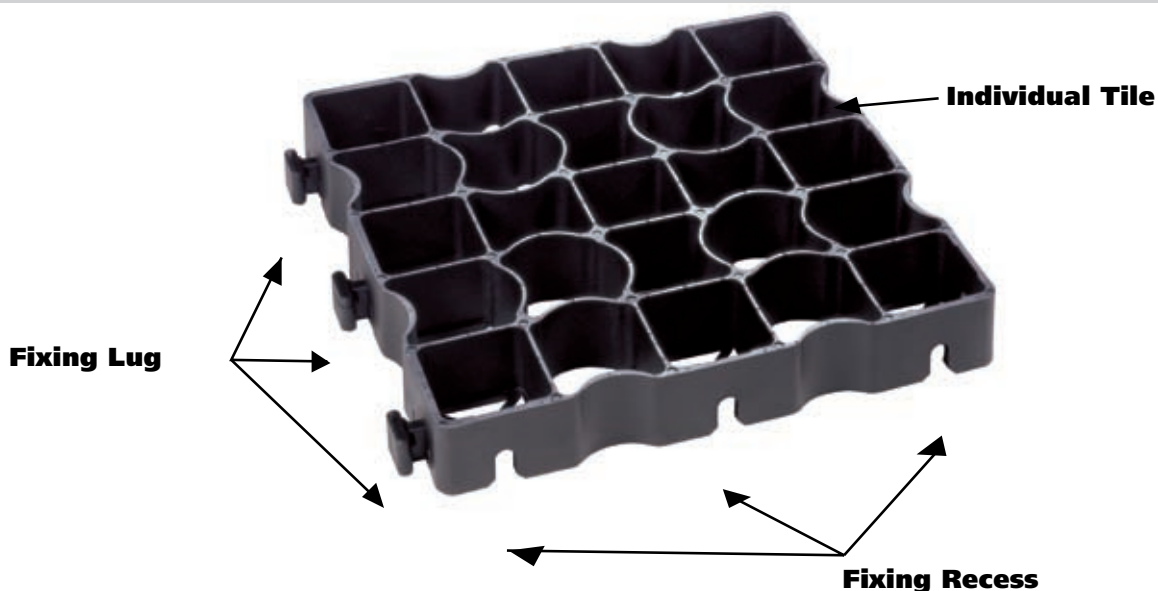
To calculate the ratio of the gravel and topsoil mix we would recommend filling a calibrated container (such as a 5ltr Bucket) with the foundation gravel only. Completely compact the gravel until it is level with the top of the container. Now fill the container with water ensuring you allow time for the water to drain through the gravel and fill all the voids. Once the container is full, drain the water into a separate container and calculate the volume of water collected and compare this to the volume of gravel. For example five litres of gravel may produce one and a half litres of water, therefore requires a mix of five parts gravel to one and a half parts topsoil (gravel void percentage equates to 30%).

It is important not to exceed the calculated amount of topsoil, as when compacted this could prevent root growth.

The gravel only or gravel and topsoil mix depth should be calculated according to the vehicle and usage requirements and should comply with regulations for road and footpath construction where applicable (refer to the Specification for Highways Works).

The gravel only or gravel and topsoil mix should be compacted in layers and a level and flat finish should be achieved.

Enviroscape Installation

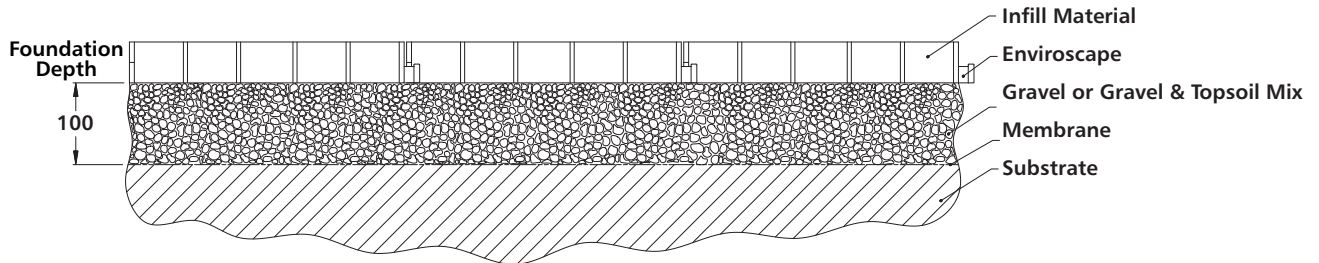


Once all ground preparation is complete we would recommend starting your installation from a fixed corner along a straight edge with the Enviroscape Fixing Lugs protruding outwards.

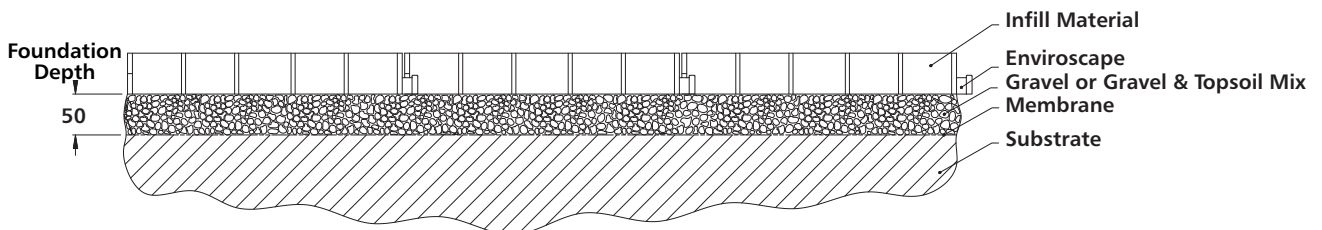
Enviroscape is supplied in batches of twelve individual tiles which are pre-connected in sections of four by three tiles, therefore 1.33m² can be installed in one go.

Special care should be taken whilst handling your Enviroscape to ensure that the pre-connected sections are not allowed to bend excessively. Allowing the sections to bend too greatly where the individual tiles connect may cause the Fixing Lugs to fracture .

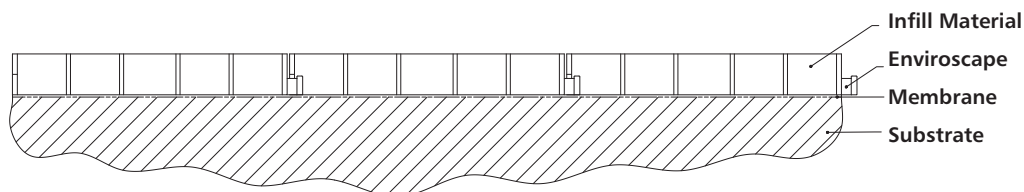
Installation Guide



Heavy Duty



Medium Duty



Light Duty

1. Ground Preparation

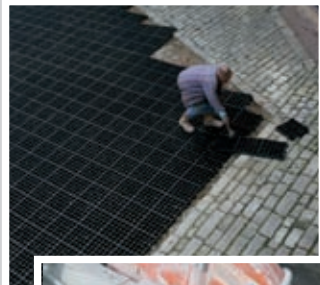
Substrate

Enviroscape can be used for many differing applications ranging from light use, temporary car parking, or roads for heavy goods vehicles. It is therefore important to perform a full site survey to establish the quality of the ground structure before installing your Enviroscape ground reinforcing system.

It is possible to lay Enviroscape directly onto an existing surface in dry and stable conditions for light duty applications. For heavy duty applications where the substrate may be soft, an engineering base is required to give a good, sound foundation.

For medium to heavy duty applications prepare the substrate by excavating the area taking into account the depth of the Enviroscape and the foundation depth (gravel only or gravel and topsoil mix). As substrate conditions vary greatly it is important to establish its construction and permeability. Drainage systems should be constructed in non-porous soil types to ensure the area is dry and free from standing water.

For areas where a foundation is not required, the excavated area should be finished, made level and all large objects and debris removed to ensure that the finished Enviroscape surface is level and flat.



Enviroscape Installation

(Continued)

Once the first section of EnviroScape has been laid, simply position the next section in place and align the Fixing Lugs with the Fixing Recesses and press downwards to lock the tiles together.

Continue in this manner until the entire area has been covered.

Enviroscape can be easily cut to the desired shape to suit the area with the use of standard cutting equipment and we would recommend cutting no further than 10mm from the edge/boundary.

Infill Materials

Infill materials can vary greatly and EnviroScape can be used to successfully contain topsoil, sand, compost, wood bark, gravel and in some cases can be used without filling at all.

Gravel Infill

Enviroscape 50 will require 2 tonnes of gravel per 5m² section
Enviroscape 30 will require 1.2 tonnes of gravel per 5m² section

When using EnviroScape for non-vegetative installations for example gravel, spread the gravel evenly within the EnviroScape and compact until level with the top. Due to natural compacting we would recommend that a final layer of gravel is uniformly spread into the EnviroScape to 10/20mm above the top level after 2-4 weeks following the initial installation.

Sand and Topsoil Infill for Seeding

When using EnviroScape for grass seeding a typical infill consists of a mix of two parts sand to one part topsoil and fertilizer. For best results follow the grass seed supplier's recommendations for the sand and topsoil mix. The top level of sand and topsoil mix should be 5 to 10mm below the top surface of the EnviroScape to help protect the grass roots and prevent the sand and topsoil mix compacting.

Finally spread grass seed to the supplier's recommendations. We would recommend that a tough and hard wearing grass composition be chosen.

- A planned maintenance schedule of regular inspection is recommended, replacing components as necessary.
- Replacement components are available direct from GLASDON.
- GLASDON cannot be held responsible for claims arising from incorrect installation, unauthorised modifications or misuse of the product.

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