GeoGrow®

DESIGN MANUFACTURE INSTALL

Products & Services

2025

GeoGrow®

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Who are Geogrow?

We are a specialist contractor delivering innovative solutions for gravity walls, retaining walls, slope stabilisation, erosion control & hydroseeding.

Our turnkey services span design, manufacture, supply, and installation, catering to both land and water applications. Every solution is tailored to meet the unique needs of our clients, providing robust, sustainable, and cost-effective results.

We work across all sectors in the building and construction industry including residential, commercial, and industrial applications, delivering comprehensive support from initial consultation to project completion with the emphasis on greener infrastructure, biodiversity, wildlife habitat and sustainability.

Our in-house expert team includes chartered geotechnical engineers, CAD technicians, and site engineers, ensuring expert advice and precise project execution. We offer custom-facing options to align with the aesthetic and functional requirements of any project.

Our Solutions

- **Retaining Wall Solutions**
  - **Rootlok**
  - **Geomesh**
  - **Geoslope**
- **Criblok Systems**
  - **Timber Criblok**
  - **Plastic Criblok**
  - **Concrete Criblok**
- **Gabions & Mattresses**
- **Erosion Control**
- **Hydroseeding**

Rootlok®

Vegetated retaining wall system for land and water

Rootlok is our UK-manufactured modular geotextile bag and interlocking plate system designed to provide a sustainable and natural alternative to hard-engineered retaining structures.

This system is suitable for both land and water applications, delivering a green finish that promotes biodiversity and environmental enhancement.

The system is highly versatile, used in gravity walls, retaining walls, slope stabilisation, bunds, erosion protection, landscaping, and Sustainable Drainage Systems (SuDS).

Rootlok is widely specified throughout the building & construction industry, housing, commercial and environmental markets. Rootlok's vegetated system helps contribute towards Biodiversity Net Gain (BNG) through biodiversity, enhanced wildlife habitat, greener infrastructure, carbon reduction & sustainability.

Our technical team will provide:

- Expert advice
- Product specification
- Preliminary solution
- Initial estimate
- CAD and 3D rendered drawings
- Final design calculations
- Formal quotation
- Installation guidance

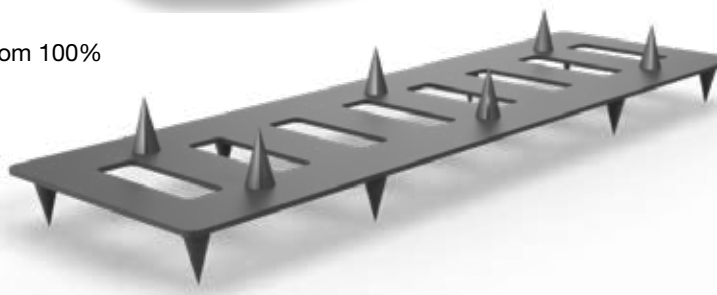
Did you know?...

MSE systems that utilise a BBA certified geogrid for reinforced retaining structures and embankments with slope angles up to 70°, come with a 120-year design life!

Strong, sustainable, and ready to grow.

At its core are the Rootlok bags, each weighing 30kg and filled with a high-organic-content growing medium that promotes rapid germination and supports the establishment of grasses, plants, and shrubs.

This medium ensures a free-draining system, preventing waterlogging and fostering healthy root development. The bags can be pre-seeded, hydroseeded, or planted, offering flexibility to suit a variety of project requirements.



To secure the structure, Rootlok interlocking plates are utilised. Made from 100% recycled polypropylene, these plates lock the bags together, enhancing stability and ensuring the integrity of the wall.

This design not only provides immediate structural support but also facilitates the long-term sustainability of the vegetation, as the interconnected system allows plant roots to intertwine and strengthen the overall construction.

The combination of these components results in a vegetated wall system that integrates seamlessly into natural landscapes. By supporting rapid plant establishment and sustained growth, Rootlok contributes to increased biodiversity and complements the local environment. Its environmentally friendly materials and design make it a preferred choice for projects aiming to enhance green infrastructure and promote ecological balance.

To further customise the system, a variety of vegetation options are available. Our in house environmental experts can assist in selecting and delivering the ideal finish. Temporary sheet piling services can be provided as needed.

To learn more scan here or visit geogrow.com

Geomesh

Soil reinforced structures with green finishes

Geomesh is an advanced system that combines welded steel mesh fascia with geogrid reinforcement, enabling the rapid and efficient construction of reinforced soil structures.

The system is designed for time and cost-effectiveness, utilising site-won soils to reduce both costs and carbon emissions.

Prefabricated steel mesh fascia customised for project-specific requirements, green erosion control mats & hydroseeding support vegetation growth to create a natural green finish.

Over time, the sacrificial mesh elements integrate seamlessly with the environment, creating a self sustaining vegetated structure.

This system is ideal for residential, commercial, industrial, and major infrastructure projects. It accommodates cohesive reinforced backfill using Class 7C tested soils.

Our technical team will provide:

- Expert advice
- Product specification
- Preliminary solution
- Initial estimate
- CAD and 3D rendered drawings
- Final design calculations
- Formal quotation
- Installation guidance

Temporary sheet piling services can be provided as needed. Our in-house environmental team offers expert advice ensuring the chosen vegetation meets project goals, achieving a sustainable, aesthetically pleasing finish.

To learn more scan here or visit geogrow.com

Geoslope

Soil reinforced slopes with geogrid

Geoslope is a system that utilises the use of geogrids to reinforce embankments to offer a more streamlined and cost effective option.

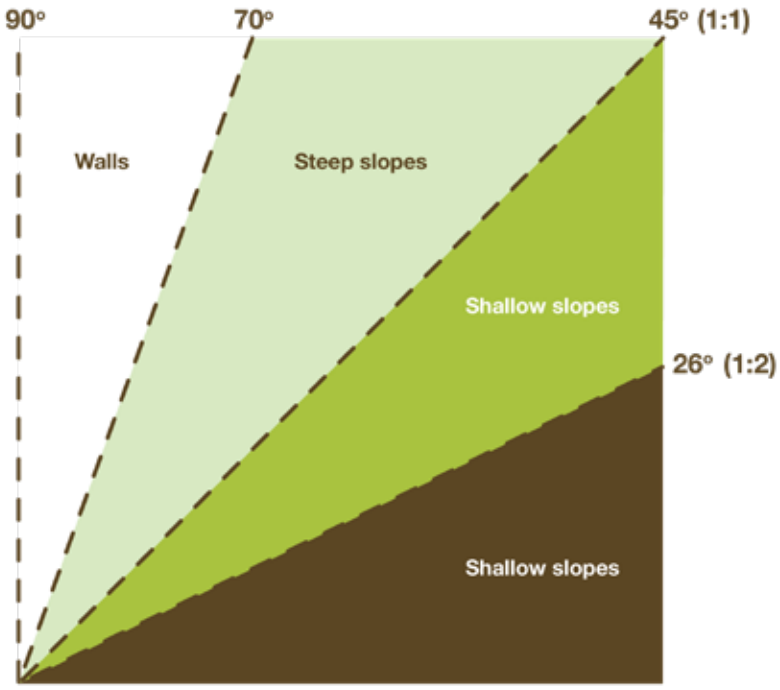
This system enables steep slope construction utilising site won soils. Unlike systems that require fascia elements, Geoslopes can rely solely on geogrid reinforcement, making it a more cost-effective option for slope stabilisation.

Geoslopes are suitable for residential, commercial, industrial, road - rail, and major infrastructure projects.

Geoslopes are also available in conjunction with soil containment solutions including temporary and permanent erosion control blankets, mats and geocell confinement.

For embankments less than 45° there is no requirement for a fascia elements, the slopes only require a geogrid.
The geogrid reinforcement extends to the face of the slope and is then supported by the installation of a coir blanket or a permanent erosion control mat pinned to the surface. A vegetated cover will help prevent erosion.

Additional options for vegetation are available, supported by our in-house environmental team, ensuring a high-quality and environmentally friendly finish.



To learn more scan here or visit geogrow.com

Criblok Solutions

Gravity retaining walls constructed from a framework of interlocking components to create a grid like structure. The spaces within the grid are filled with graded stone to provide mass and stability. We have a range of materials to specify dependant on project brief.

Timber Criblok

Sustainable retaining wall with natural aesthetic appeal

The timber Criblok retaining wall system is constructed using PEFC certified timber, which is pressure treated to ensure durability and a service life of 60 years.

This modular system is cost-effective and aesthetically pleasing, making it ideal for both small and large retaining structures, with heights exceeding 12 meters.

Each timber crib is machined to an approved quality assurance standard, forming frames that are filled with graded stone. This system provides a natural aesthetic while maintaining structural integrity. Rootlok bags can also be incorporated to create a partial vegetated landscape finish if required.

Timber Criblok walls are frequently used across residential, commercial, industrial, civil engineering, and infrastructure projects.

Plastic Criblok

Lightweight, eco-friendly retaining walls

Manufactured using 100% recycled material, the Plastic Criblok walling system offers an environmentally friendly alternative to timber and concrete systems.

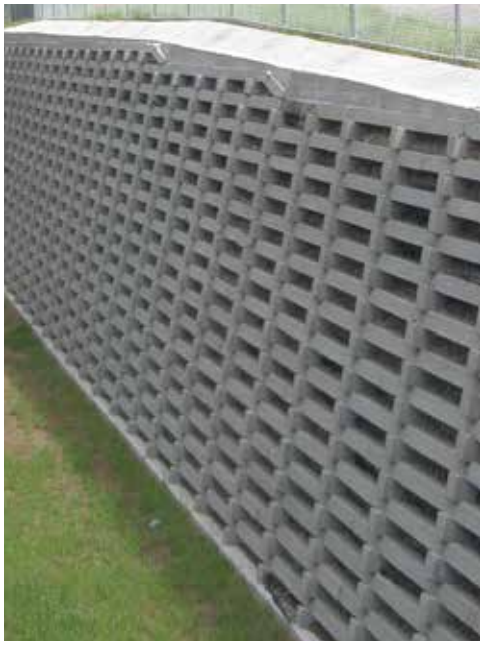
This modular system provides a 120-year design life and is suitable for applications requiring lightweight yet robust solutions. The systems header and stretcher components form cages, which are filled with graded stone to achieve the required mass for structural stability.

Rootlok bags can also be included to create a vegetated finish, further enhancing sustainability and aesthetic appeal.

Plastic Criblok systems are commonly used in residential, commercial, industrial, civil engineering, road-rail, and major infrastructure projects.

Concrete Criblok

Robust retaining walls for high-load applications



The Concrete Criblok retaining wall system is a modular, pre-cast solution designed to meet the demanding requirements of high-load and high wall applications. Concrete Criblok offers a robust and cost-effective alternative to traditional hard-engineered structures, with rapid installation and minimal manual handling.

The system consists of pre-cast concrete header and stretcher components that form a cage, which is then filled with graded stone to achieve the necessary mass and stability.

For projects seeking a partial vegetated finish, Rootlok bags can be used as planters to deliver a more natural greener finish.

With a 120-year design life, this system is ideal for use in highways, rail, commercial and industrial sectors.

Did you know?...

For all our Criblok systems our technical team will provide:

- Expert advice
- Product specification
- Preliminary solution
- Initial estimate
- CAD and 3D rendered drawings
- Final design calculations
- Formal quotation
- Installation guidance

Temporary sheet piling services can be provided where necessary, ensuring the system meets specific project requirements.

To learn more, contact us at:

sales@geogrow.co.uk

01543 224800

Gabions & Mattresses

Flexible retaining solutions for diverse applications

Gabions are wire baskets filled with gabion stone and are commonly used for retaining walls, river erosion control, cladding, and free-standing walls across residential, commercial, industrial, and civil engineering sectors.

We are able to offer design, supply, and installation services for gabions and mattresses, providing a versatile solution for mass gravity and reinforced earth retaining structures.

The performance of gabion structures depends on the quality of the gabion units and the chosen fill material. We ensures the use of hard, durable, non-frost susceptible stone, typically Class 6G with a grading of 100–200mm in diameter.

All designs and analyses are performed in accordance with BS EN 1997-1:2004 and BS 8002:2015, ensuring compliance with the highest standards. With an appreciation for value engineering, our experienced technical staff will advise on the most cost-effective retaining solution based upon the information provided to us.

Our technical team will provide:

- Expert advice
- Product specification
- Preliminary solution
- Initial estimate
- CAD and 3D rendered drawings
- Final design calculations
- Formal quotation
- Installation guidance

To learn more, contact us at:

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01543 224800

Erosion Control

Sustainable solutions for river and soil protection

Our erosion control systems are designed to prevent or reduce the erosion of soils and riverbanks caused by natural forces such as water, wind, and gravity. These measures help protect the environment, preserve land, and maintain the integrity of waterways.

We provide a range of erosion control products and installation services for riverbanks, wetlands, and surface soil erosion challenges. These bioengineering techniques focus on innovative vegetated solutions that promote biodiversity, habitat creation and sustainability.

The product range includes pre-planted coir rolls, pallets, rock rolls, rock mattresses, anchored high-performance systems, biodegradable coir blankets and nets. For a more robust retaining solution for walls, river banks, streambanks and headwalls in water applications, use Rootlok's vegetated retaining system.

Our expertise ensures the early design of sustainable solutions for a variety of watercourse applications.

Clients include consultants, local authorities, building & construction companies, environment agencies, and private clients.

Our technical team will provide:

- Technical advice
- Preliminary design
- Estimates
- Soil sampling
- Installation services

HYDROSEED®

Greener landscapes with advanced hydroseeding solutions

Hydroseeding is a method of combining water, high-performance thermally refined wood fibre, seeds, fertilisers and tackifiers. The materials are mixed in a hydroseeding machine to form a slurry, which is then sprayed onto surfaces to quickly establish vegetation.

The hydraulic seeding method provides faster germination rates, and superior erosion protection. It is an ideal technique for difficult to reach areas, where traditional sowing methods are impractical, such as road embankments, rail, environmental and large projects.

Hydroseeding is increasingly being used across the UK's building & construction industry, residential, commercial, industrial, and environmental projects. Hydroseeding provides time savings with exceptional results on steep slopes, retaining walls, large open spaces, and attenuation ponds, contributing towards Biodiversity Net Gain, biodiversity, wildlife habitats, greener infrastructure & sustainability.

Our in-house operations team offers cost-effective spray-on services, including soil amendments, temporary covers, soil sampling, site surveys, and customised seed mixes to suit every project.

Our technical team will provide:

- Technical advice
- Site visits
- Soil sampling
- Surveys
- Product specification
- Cost-effective solutions
- Initial estimates
- Final quotations
- Quality installations

Save time & money

- Quicker application than conventional seeding
- Faster germination
- Even and more controlled seed distribution
- Protection for seeds in challenging conditions
- Improved seed to soil binding
- Erosion control at a fraction of the cost
- Minimal to no aftercare required
- Easily seeds large, steep and difficult access areas

Features and benefits

100% organic

All our hydroseeding materials are 100% organic, biodegradable and non-toxic, making it suitable for all land and water course applications.

Retaining walls

Hydroseeding is the ideal option for retaining walls and steep slopes as it quickly establishes vegetation while saving time and money.

Erosion Control

A tailored hydroseed package can be the perfect solution to erosion control when it comes to preventing the movement of surface soils caused by rainfall, snow, ice, irrigation systems and other natural elements.
Not only this but it also provides stability for particles and nutrients that will prolong and enhance the quality of the soil.

Various seed mixes

We supply a wide range of low-maintenance seed mixes and bespoke wildflower seeds to match soil types, including sandy and clay soils. Each method can be tailored to the clients specification using the hydroseeding method. Seed mixes including low-maintenance, shade and drought tolerant, riverbank mix, wildflower and amenity mixes are all suitable mixes for hydroseeding large open spaces and erosion control areas.

To learn more scan here or visit geogrow.com

HYDROSEED®

Biotic Soil Amendment

Revive poor soils, reduce costs

A Biotic Soil Amendment can offer cost-savings as an alternative to importing topsoil.

It is a wood fibre based material combined with peat-free compost, tackifiers, concentrated amounts soil bacteria and fungi found in topsoil but in higher quantities. Once applied via a hydroseeder it gets to work replenishing the existing poor/depleted soils with the nutrients and microbiological cultures to support and sustain vegetation.

Providing the following benefits:

Applied via a hydroseeder, leading to a smaller, faster and more carbon efficient operation than topsoiling

Assist in rapid development of soil structure and pore space for nutrients, water, and air flow

Improves nutrient cycling and plant available nutrients

Support plant growth at all stages of development

Reduces costs compared to traditional topsoiling

100% non-toxic & biodegradable

Can be applied on steep slopes

Tailored solutions

All biotic soil amendment applications are tailored to suit the existing soil's organic matter levels following a soil sample test.

Therefore, the better the soil, the less BSA is required and the cheaper it is!

HYDROSEED®

Soil sample testing

Understanding your soils

As part of our hydroseeding service we can also undertake soil sample testing. This allows us to fully understand the chemical, physical and biological properties of the soils to be seeded.

We highly recommend soil sample testing before any seeding works to ensure that the seed mix to be used is suitable for its environment. Once the test result have been assessed we will provide our recommendations to ensure the finished result is achieved.

Key values that can affect seed mix suitability:

N

Nitrogen

For healthy, green foliage

P

Phosphorus

To develop strong roots & vibrant wildflower blooms

K

Potassium

Essential for all round plant growth

Organic matter

Ideally 3%-5%, breaks down into plant food to sustain vegetation

PH levels

Confirms if the seed specification needs to suit acidic or alkaline conditions

To learn more scan the QR code or visit **geogrow.com**

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