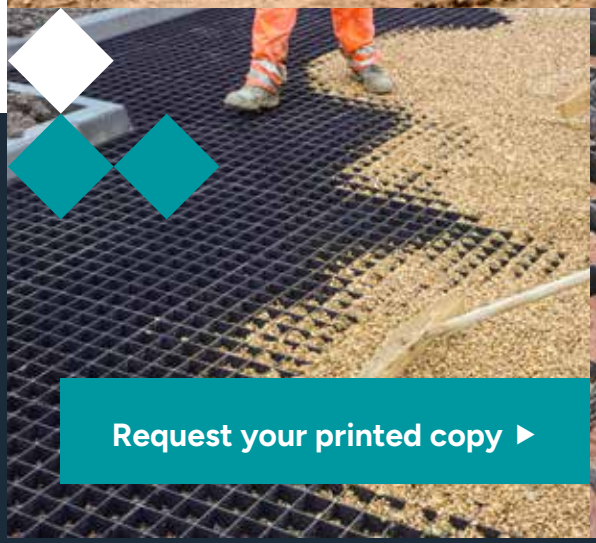
GEOWORKS
GEOSYNTHETICS BY WREKIN



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GEOSYNTHETICS

GEOTEXTILES ◆ GEOGRIDS ◆ GEOPAVING
GEOCELLS ◆ GEOMEMBRANES ◆ GEOMATS

CATALOGUE ◆ 2025 EDITION 2


RV24 GHY
JCB

INTRODUCING GEOWORKS

SHAPING THE FUTURE OF GROUND ENGINEERING

At Geoworks, we bring practical, high-performance geosynthetic solutions to projects across construction, infrastructure, landscaping, and environmental sectors.

Our product range includes geotextiles, geogrids, geocells, geomembranes, geomats and paving systems - everything you need to reinforce, protect, and build with confidence. Whether it's for drainage, soil stabilisation, erosion control or surface reinforcement, we've got you covered.

What makes Geoworks different is our complete solution approach. We make it easy to get the right product for your job, all in one place, ready to perform.

We're committed to quality, durability, and sustainability. Every product is engineered to meet the demands of modern groundworks while supporting long-term environmental goals.

From highways to housing, nature reserves to city streets, Geoworks delivers trusted solutions backed by industry know-how and a hands-on support team.

FROM WREKIN THE BRAND YOU TRUST

OUR VALUES

Our values are the foundation of our identity and the guiding principles behind our operations. They are not merely words; they represent our commitment to excellence, innovation, and integrity in every aspect of our business. These values drive us, ensuring that we not only meet but exceed the expectations of our clients. Our values are what make us a leader in our field.

IMPACT

We deliver solutions that truly make a difference to our customers and the communities where our products exist.

TRUST

We do what we say and take pride in our work.

We deliver smart, reliable solutions that make a real difference.

AMBITION

We are always learning, growing, and finding smarter ways - so every product, every project and every day is better.

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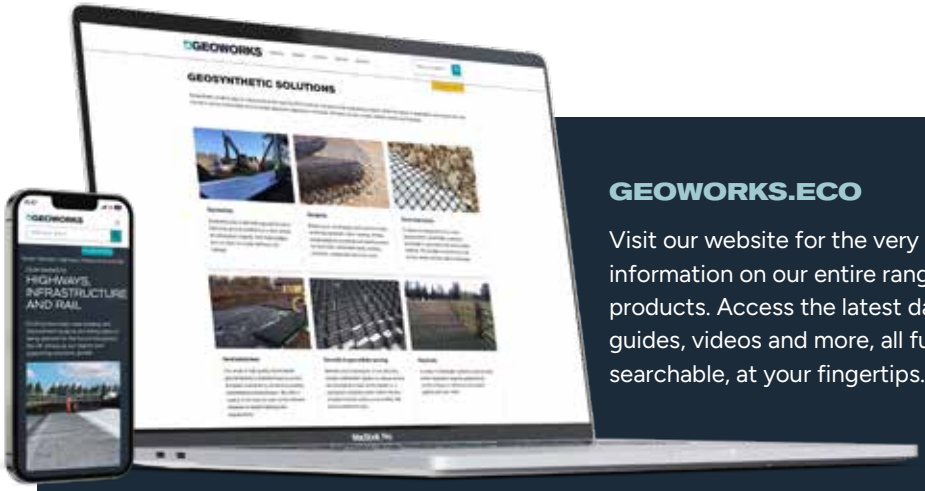


GEOWORKS.ECO

Visit our website for the very latest information on our entire range of products. Access the latest datasheets, guides, videos and more, all fully searchable, at your fingertips.

geoworks.eco

BETTER TOGETHER

CIVITEC GROUP

We are all better together, working collaboratively to achieve common goals.

That's why we've built Civitec Group, which brings together leading brands of civil engineering solutions providers with a shared ambition.

Our collective expertise spans across various aspects of civil engineering, from the design and manufacture of innovative products, to providing solutions to long standing problems through a specification approach.

We are not just a group of companies; we are a united force, striving to revolutionise the industry and contribute to the development of sustainable and resilient infrastructure.

Proflo LTD.

FSD

WREKIN

P.I.L

GEOWORKS

ENCOTEL

Civitec Group's strength lies in our diversity.

Each member brand brings a unique perspective and specialised skills, enhancing our ability to solve complex problems and deliver comprehensive solutions. Our portfolio includes projects in transportation, water management, environmental engineering, and urban development. From supporting the design of smart cities through to mitigating climate change impacts, our work is shaping the future of civil engineering.

We are also deeply committed to fostering innovation. Our research and development teams continually explore new technologies and methodologies to improve efficiency and sustainability. We believe in harnessing the power of digital transformation to streamline processes, reduce waste, and increase productivity. Artificial intelligence, machine learning, and data analytics are just a few of the tools we employ to drive progress.

At Civitec Group, we understand that our people are our greatest asset. We invest heavily in talent development, providing our employees with opportunities for continuous learning and growth. Our inclusive work culture promotes collaboration, encourages creativity, and rewards excellence.

Civitec Group's mission is to redefine the boundaries of civil engineering, to create a world where infrastructure is smart, sustainable, and resilient. Our shared ambition fuels our drive for excellence, propelling us towards our vision of a better tomorrow.

GEOSYNTHETICS FUNCTIONS

Our total geosynthetic package has been continuously developed and expanded since 1995. We provide our customers with technical support, specification and design services, helping you find the solution to all your geosynthetic requirements.

Geosynthetic products play an integral role in the majority of building, civil engineering and rail projects. While the range of applications and uses is vast, the functions can be broken down into six broad categories: Filtration, Separation, Reinforcement, Erosion Control, Protection and Containment.

FILTRATION

Allows the passage of water while restricting the movement of soil.

Our high quality geosynthetics can provide a good level of filtration for the majority of soil types, allowing water but not soils to pass through.

PRODUCTS

- MultiTrack
- SX Composite
- WeedShield
- TerraTrack Lite

SEPARATION

Prevents different soil layers from unwanted mixing.

Using our geosynthetic products can avoid aggregate bases or sub-bases mixing into soils, and will save costs by removing the need for additional granular layers.

PRODUCTS

- FasTrack
- MultiTrack
- SX Composite
- WeedShield
- FasTrack Shield
- TerraTrack

REINFORCEMENT

Resists stresses, reduces deformations, and can support weaker subgrade.

Base or sub-base reinforcement can be achieved with the use of geosynthetic layers, increasing support of the ground whilst reducing the amount of soil or gravel required.

PRODUCTS

- FasTrack
- E'GRID
- SX Grid
- SX Composite
- Ecodeck
- CellTrack
- ProtectaWeb
- TurfMesh

EROSION CONTROL

Reducing the damage caused by erosion by using geosynthetics.

Using specially engineered geosynthetics to prevent sediment displacement, and protect land surfaces from the damaging effects of water, wind, and human activity.

PRODUCTS

- ProtectaWeb
- Trinter

PROTECTION

Reduces damage to an adjacent surface, acting as stress reduction.

A practical solution for areas which may be particularly prone to wear. Our geosynthetic products can ensure the protection of soils, grasses and gravel areas, as well as geomembranes in SuDS applications.

PRODUCTS

- MultiTrack SNW
- Ecodeck
- CellTrack
- ProtectaWeb
- TurfMesh
- Trinter

CONTAINMENT

Prevent the migration of fluids into the surrounding environment.

Acts as a barrier system to contain liquids or other substances within a designated area, ensuring environmental protection and preventing contamination of soil, groundwater, and nearby ecosystems.

PRODUCTS

- GCL 4500
- GT Membrane 500
- HDPE
- Shoebox Liners

MARKETS

Our products have been successfully used on thousands of projects. From major road and rail infrastructure projects to car parks, housing estates and garden landscaping.

Whatever market you operate in, we can help you to minimise costs, save time and improve efficiencies. Simply put, we are the experts, and however big or small your project may be, we are always available and ready to help.

HOUSING & RESIDENTIAL

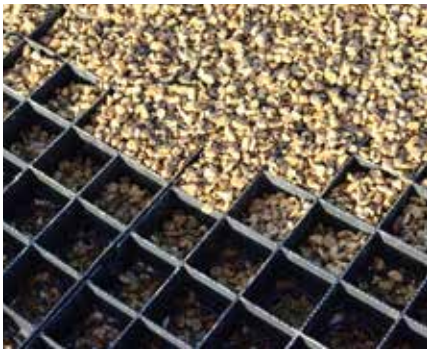
Housing developments require reliable, rapid, and durable solutions. With the ever-growing demand for more homes and quicker build times, geosynthetics can play a crucial role in the early stages of a development.

INFRASTRUCTURE & HIGHWAYS

Geosynthetics help to conserve energy and promote more durable and sustainable structures. Our solutions can assist in minimising the carbon footprint of infrastructure developments while saving natural resources and reducing transported materials.

RAIL

Rail construction projects require geosynthetic solutions for wide ranging applications. Typically, geotextiles and geogrids (like our Network Rail-approved large aperture geogrid) are specified, however many of our other products can also play a key role.



RENEWABLE ENERGY

By ensuring ground stability and erosion control, geosynthetics can play a pivotal role in renewable energy projects. Their application underpins the infrastructure's longevity and efficiency, essential for the sustainable harnessing of renewable resources.

PROFESSIONAL LANDSCAPING

Our geosynthetics improve landscaping by providing soil reinforcement, efficient drainage, and protection for tree roots, ensuring sustainable, durable infrastructure with minimal environmental impact.

DIY & GARDENING

Geosynthetics can offer transformative results, from soil reinforcement to effective drainage, ensuring robust, healthier gardens. Our products can also be key to elevating home landscaping projects, marrying functionality with aesthetic appeal for garden enthusiasts.

TRAINING AND CPDS

We are happy to provide free training and support, including CPDs, giving you real, valuable insight into what can be achieved using geosynthetics. Whether that's reduced construction times, reduced labour, reduced overall project cost or reduced environmental and carbon impact.

We understand that each project is unique, and our team is equipped to provide tailored guidance and advice to ensure that our clients are making the most out of our products. Whether you need assistance with product selection, installation, or troubleshooting, our team is here to help.

Register your interest today

geoworks.eco/cpd

GROUND ENGINEERING SOLUTIONS

The reasons to specify and install geogrids are plain to see. This CPD will help you to understand the background to our range of products on offer, where they're used, what makes them different, and what to look out for when specifying:

WHAT'S INCLUDED

- Learn about the different geogrid forms and what makes them different.
- Understand the different manufacturing processes and the impact that has on the performance of geogrids.
- Understand how geogrids work to provide reinforcement properties.
- Learn how geogrids can add value to a project through value engineering.

TIME

1 hour total, 45 minute presentation including 15 minutes for questions and answers.

LANDSCAPING SOLUTIONS

Dive into advanced landscaping solutions with our comprehensive CPD course. Explore methods to preserve and enhance green spaces, focusing on tree root protection, turf reinforcement, permeable paving, and effective weed control:

WHAT'S INCLUDED

- Learn how to safeguard tree roots against potential damage and ensure their health and growth.
- Discover methods to reinforce turf areas that experience high foot traffic or vehicle use.
- Installation techniques and benefits of CellTrack, our permeable paving solution.
- Learn more about eco-friendly approaches to weed control, minimising maintenance and promoting a weed-free landscape.

TIME

1 hour total, 45 minute presentation including 15 minutes for questions and answers.

IN-PERSON SUPPORT

We understand that our customers have various needs when it comes to implementing our products in their projects. That's why we offer in-person support, designed to provide guidance and help to our clients. This includes;

- Toolbox talks with our geosynthetics experts
- On-site installation support
- Educational lunch & learn sessions

ADDITIONAL SUPPORT

We know our customers have busy schedules and may not always have the time to meet in-person. That's why we offer support remotely with our team, or on our website with hundreds of useful articles, guides and datasheets.

- Product specific guidance
- Product application guidance
- Dedicated online Knowledge Base
- Design software and savings calculators

DATASHEETS

Full datasheets for our entire product range are available online. Easily accessible on computers and mobile devices.

geoworks.eco

SUPPORTING YOUR PROJECTS

We're an advocate of early engagement. If we're engaged at the tender stage, the impact on time and money savings can also assist in winning tenders.

Another benefit of early engagement is that geogrids can be manufactured to the exact width that the contractor needs, suiting the site-specific requirements and creating an even more cost-effective grid. Simply removing an overlap in the geogrid layout can save a further 10 per cent in product costs alone.

However, all isn't lost if engagement comes afterwards as savings can still be introduced.

Initial consultation

Listening and working with our customers to fully understand project requirements.

Technical & value engineering

Technical professionals are in place to provide expert advice and support.

Tendering support

Decades of experience in providing tender support, gives you an edge.

Site meetings & advice

Ensuring projects are completed successfully through regular site meetings.

Project reviews

Conducting project reviews to learn lessons that are taken forward to future projects.

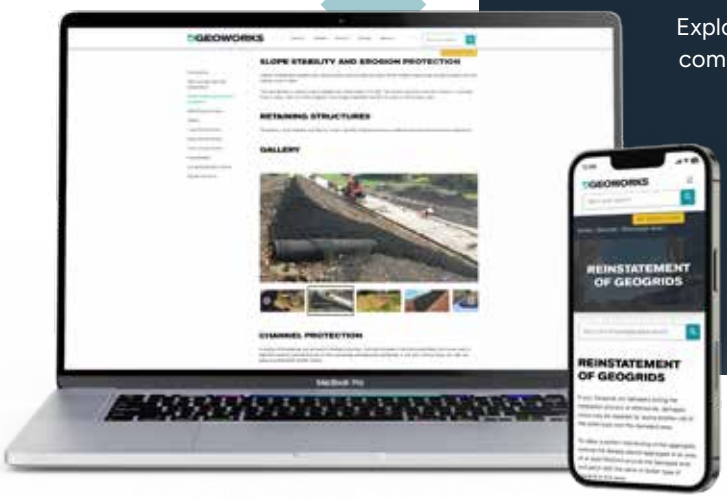
"Geoworks provided Jessup's with a technical solution which **saved time and cost,** enabling us to continue with our works unhindered, ensuring we met key milestones of the construction phase.

Their on-site technical support was invaluable during the installation of the geomembrane."

Jessup Brothers Ltd.

THE INFO YOU NEED

KNOWLEDGE BASE



Explore our Knowledge Base, designed to provide comprehensive support and resources to ensure your success with our geosynthetics products.

This educational section includes frequently asked questions, detailed installation manuals, expert product guidance, and essential regulatory information, all centralised for your convenience.

FAQs

Our FAQ section is designed to provide quick and easy solutions to common questions about our range of geosynthetics, including product specifications and application guidance.

Installation guides

We offer detailed, step-by-step guidance for the proper setup and use of our range of geosynthetics. These guides are designed to be clear and easy to follow.

Product and specification guidance

Our product guidance section includes helpful tips and advice for using geosynthetics in various applications. This section is ideal for those who are looking to achieve the best possible results.

WHERE CAN WE HELP WITH YOUR PROJECT?

1

ROADS AND TEMPORARY ROADS

Geosynthetics enhance road construction by improving stability and longevity. They reduce maintenance needs and facilitate better water drainage, ensuring more durable roadways.

Page 18

2

COMPOUNDS

In compound areas, geosynthetics play a vital role in ground reinforcement, preventing soil erosion and promoting safety and efficiency in high-traffic zones.

Page 20

3

WORKING PLATFORMS

Facilitating stable and sustainable working platforms, we can effectively minimise materials and costs, ensuring safety and efficiency, even in challenging site conditions.

Page 22

4

SUDS, PONDS AND WATER STORAGE

Geosynthetics are crucial for Sustainable Urban Drainage Systems (SuDS), ponds, and water storage, offering effective water management solutions that reduce the risks of flooding.

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5

GARDENS

In gardens, geosynthetics support plant growth and soil stability, facilitating water drainage and preventing soil erosion, thereby enhancing the aesthetic and functional value of green spaces.

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6

TREE ROOT PROTECTION

Our solutions protect trees from construction and traffic damage, helping new trees to establish and grow, creating aspirational environments for residents to enjoy and safe havens where wildlife can thrive.

Page 30

7

CAR PARKS AND VEHICULAR ACCESS

Geosynthetics provide foundational stability and durability in car parks and areas of vehicular access, resisting the pressures of heavy loads while ensuring surface longevity and safety.

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8

EMBANKMENTS

Geosynthetics offer erosion control and stability, protecting slopes and embankments from water damage and soil erosion, thus ensuring their integrity and lifespan.

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APPLICATIONS

ROADS AND TEMPORARY ROADS

When developing land for roads, several challenges can arise, potentially complicating construction and future usage. Geosynthetics offer innovative solutions to these problems, ensuring the sustainability and durability of road infrastructure.

Developing land for roads encounters numerous obstacles, from unstable soil that cannot bear heavy loads to erosion that can undermine the road base.

Water accumulation due to inadequate drainage compromises road integrity, while uneven ground necessitates extensive ground preparation. Additionally, environmental concerns mandate the minimisation of natural landscape disruption and the reduction of carbon footprints.

HOW CAN GEOSYNTHETICS HELP?

Reinforcement: Geogrids and geocells can provide a foundation layer that reinforces soft soils, distributing loads evenly and increasing the bearing capacity of the road. This reinforcement is crucial for the longevity of all types of roads, from temporary to permanent.

Separation: By preventing material intermixing, geotextiles can ensure the base course's strength and stability, essential for load support. This separation prevents durability issues caused by particle infiltration.

Filtration: Proper drainage is essential for road longevity. Geotextiles can act as a filtration layer, allowing water to pass through while preventing the migration of fine particles, thus maintaining subgrade stability.

Environmental protection: By reducing the need for traditional construction materials, geosynthetics minimise environmental impact. Their use leads to less disruption of the natural landscape and a lower carbon footprint.

Cost-effective construction: Geosynthetics allow for faster construction and reduced need for expensive natural resources. This results in significant cost savings, especially in challenging terrains where traditional construction methods would require extensive and expensive ground preparation.

SAVE MONEY OR TIME

ROADS AND TEMPORARY ROADS

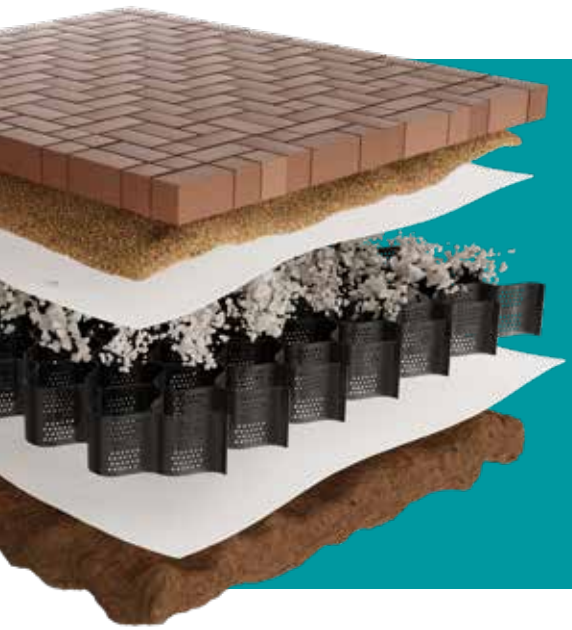
Reduced material costs: Geosynthetics replace or reduce the need for traditional, often more expensive construction materials, lowering overall project costs.

Minimised maintenance: The reinforcement and protection offered by geosynthetics extend the life of roads, reducing the need for repairs and maintenance.

Faster construction: The ease of installation associated with geosynthetic materials accelerates project timelines, enabling quicker road availability and reduced labour costs.

Enhanced durability: Roads built with geosynthetic reinforcement withstand the pressures of traffic and environmental conditions better.

Environmental compliance savings: Geosynthetics can reduce costs associated with environmental compliance and mitigate the risk of penalties for erosion or pollution.



PROTECTAWEB

GEOCELLS

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ProtectaWeb's cellular confinement system provides excellent ground reinforcement for temporary roads, including haul roads. By confining infill material, it minimises surface deformation and distributes loads effectively, even on weak or uneven subgrades.

MULTITRACK

GEOTEXTILES

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MultiTrack geotextiles are ideal for temporary roads, offering reliable separation and filtration. They enhance the performance of granular layers by preventing material migration, reducing maintenance requirements and ensuring a stable surface for vehicle movement.

APPLICATIONS

COMPOUNDS

Developing land for compounds, such as residential complexes, industrial sites, or commercial areas, presents unique challenges that can significantly impact the success of a project.

From soil instability that threatens foundation integrity to water management issues that can lead to flooding or erosion, these challenges require innovative solutions. Geosynthetics offer a versatile and effective approach to addressing these problems, ensuring the development is sustainable, durable, and cost-effective.

CHALLENGES IN COMPOUND DEVELOPMENT

Soil instability: Unstable or weak soil can compromise the foundation of buildings and infrastructure within compounds, leading to structural failures.

Water management: Poor drainage and water accumulation can cause flooding, erosion, and damage to infrastructure, necessitating effective water management systems.

Environmental protection: Minimising the environmental impact of construction and preserving the natural landscape are key concerns in compound development.

Cost and time efficiency: Reducing construction costs and timelines while ensuring long-term durability and minimal maintenance requirements.

HOW CAN GEOSYNTHETICS HELP?

Reinforcement: Geosynthetics provide a stable foundation for buildings and roads within compounds by reinforcing the soil, which is essential for structural integrity.

Filtration: Geosynthetic drainage layers manage water flow, preventing accumulation that can lead to flooding and erosion, thereby protecting infrastructure.

Protection: By stabilising the base and preventing material migration, geosynthetics protect compounds from surface damage caused by heavy use or equipment.

Environmental sustainability: Geosynthetics can be used to create green roofs and protect waterways, contributing to an eco-friendly development approach.

Cost-effective construction: By mitigating potential problems like soil instability and water management issues, geosynthetics reduce the need for expensive corrective measures, ensuring a smoother construction process.

SAVE MONEY OR TIME
COMPOUNDS

Reduced material needs: Geosynthetics can replace more expensive traditional materials, lowering overall project costs.

Decreased maintenance costs: The durability and stability provided by geosynthetics reduce the need for future repairs and maintenance.

Faster project completion: The ease of installation of geosynthetics can significantly speed up construction timelines, allowing for quicker project completion.

Longevity and durability: Geosynthetics extend the lifespan of infrastructure, reducing the need for replacements and renovations.

Environmental compliance savings: Using geosynthetics can help meet environmental regulations more easily and cost-effectively, avoiding potential fines and delays.

SX GRID
GEOGRIDS

Page 50

SX Grid deliver reliable reinforcement for compounds, ensuring a stable and durable foundation. Their high tensile strength enhances load distribution, making them ideal for areas subject to heavy equipment or frequent use.

FASTRACK
GEOTEXTILE

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FasTrack geotextiles provide essential separation for compounds, maintaining the integrity of the surface by preventing material migration and reducing the need for maintenance.

APPLICATIONS

WORKING PLATFORMS

When developing working platforms, such as those used in construction sites, industrial areas, or temporary access roads, several challenges can arise that impact the stability, safety, and efficiency of operations.

These challenges include soil instability, water management issues, and the need for durable yet temporary solutions. Geosynthetics offer a versatile and effective approach to overcoming these obstacles, ensuring the working platforms are reliable and fit for purpose.

CHALLENGES IN WORKING PLATFORM DEVELOPMENT

Soil instability: Soft, unstable soils can fail under the heavy loads of machinery and vehicles, leading to unsafe working conditions and potential project delays.

Water accumulation: Poor drainage can result in water pooling on the surface, compromising the integrity of the platform and leading to erosion.

Need for temporary solutions: Working platforms often serve a temporary purpose, requiring solutions that are both effective and easily removable or adaptable to new projects.

HOW CAN GEOSYNTHETICS HELP?

Separation: Geosynthetics act as a separator between the subgrade soil and the aggregate layer of the working platform. This separation prevents the intermixing of different soil layers, maintaining the structural integrity and load-bearing capacity of the platform.

Filtration: Geosynthetic filters allow water to drain through the platform while preventing the passage of fine particles, which could otherwise lead to instability and erosion. This ensures that the platform remains dry and stable, even in adverse weather conditions.

Reinforcement: By reinforcing the soil, geosynthetics increase the load-bearing capacity of the working platform, making it capable of supporting heavy machinery and traffic without deformation or failure. This reinforcement is crucial for maintaining a safe and functional working environment.

SAVE MONEY OR TIME
WORKING PLATFORMS

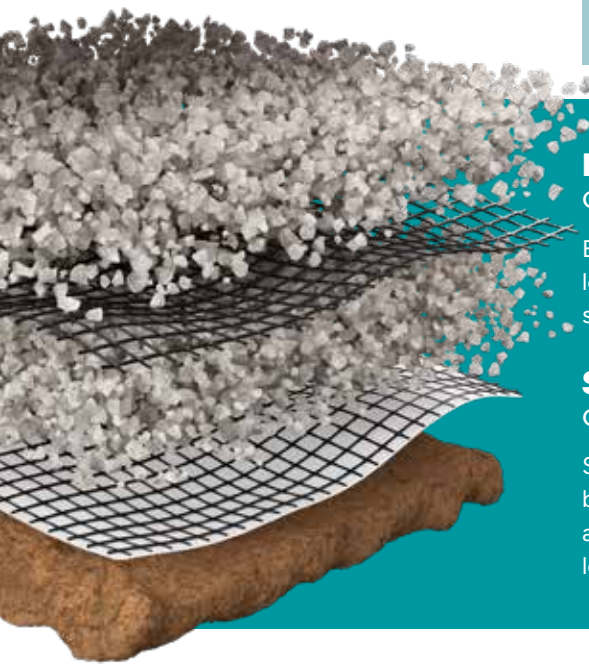
Quick installation: Geosynthetics can be rapidly deployed and installed, speeding up the construction process and allowing for faster project commencement.

Reduced aggregate thickness: With the stabilisation provided by geosynthetics, the required thickness of aggregate layers can be reduced, lowering material costs.

Minimised maintenance: The durability and stability offered by geosynthetics reduce the need for repairs, cutting costs and avoiding operational disruptions.

Versatility: Geosynthetics are suitable for a wide range of soil types and environmental conditions, reducing the need for extensive soil preparation.

Environmental savings: Fewer truckloads of aggregate mean lower emissions, and less excavation helps preserve the natural environment, supporting sustainability goals.



E'GRID
GEOGRIDS

Page 50

E'Grid geogrids offer robust reinforcement for working platforms, improving load-bearing capacity and minimising ground movement. They create a strong, stable base, even over weak soils, supporting safe and efficient operations.

SX COMPOSITE 3030
GEOCOMPOSITE

Page 54

SX Composite 3030 provides an integrated solution for working platforms by combining reinforcement and separation. Its dual-action design reduces aggregate thickness while maintaining surface strength and stability, ensuring long-lasting performance under heavy loads.

APPLICATIONS

SUDS - ATTENUATION TANKS

Attenuation tanks are a crucial component of Sustainable Urban Drainage Systems (SuDS), designed to manage stormwater runoff and mitigate flooding risks.

However, the development and installation of these systems can encounter several challenges, including contamination risk, structural damage from surrounding soils, and water leakage. Geosynthetics play a vital role in addressing these issues, offering containment and protection solutions that ensure the effectiveness and longevity of attenuation tanks.

CHALLENGES IN SUDS DEVELOPMENT

Soil contamination: The migration of pollutants from surrounding soils can contaminate water storage systems, affecting water quality.

Water infiltration and erosion: Uncontrolled water flow can cause erosion, undermining the structural integrity of SuDS, ponds, and water storage facilities.

Mechanical damage: The construction and ongoing use of these systems pose a risk of mechanical damage, which can compromise their functionality.

MATERIAL CALCULATORS

A simple tool to help calculate the materials required for your SuDS attenuation tank and soakaway installation.

Simply input your project details, and the calculator will provide a quantity estimate of the products required for attenuation tanks and soakaways.

geoworks.eco/calculate

BESPOKE GEOMEMBRANES

PREFABRICATED SHOEBOX LINERS

We can prefabricate “shoebox” welded liners. Before the project begins our team will consult with you on your exact specification. We will then prepare the attenuation module, consisting of geomembrane box welded liner and geotextile outer wrap.

This self-installation package ensures efficiency and reduces time spent on site. The module can be delivered to any site in the UK.

If you have installation requirements, please get in touch at sales@geoworks.eco or call us on 01543 440480.

HOW CAN GEOSYNTHETICS HELP?

Separation: Geosynthetics act as a barrier between the soil and water management systems, preventing the intermixing of contaminated soil with the clean aggregate or water in the system. This separation is essential for maintaining the purity and effectiveness of water storage and drainage solutions.

Filtration: Geotextiles provide a filtration function, allowing water to pass while trapping sediments and pollutants. This prevents the clogging of SuDS and soakaways, ensuring their continued operation and reducing the need for maintenance.

Protection: Robust geosynthetic membranes protect the structural integrity of ponds, attenuation tanks, and soakaways from mechanical damage. They prevent punctures and tears that could lead to leaks, ensuring the longevity of these systems.

SAVE MONEY OR TIME

SUDS - ATTENUATION TANKS

Reduced maintenance costs: Quality geomembrane liners create a watertight barrier, preventing leaks and ensuring the long-term functionality of attenuation tanks.

Enhanced protection: Nonwoven geotextiles act as a protective layer around geomembrane liners, preventing damage and extending the lifespan of the system.

Simplified installation: Geosynthetics are lightweight and easy to install. This means labour time and the need for heavy machinery on-site is reduced.

Cost-effective material use: Geotextiles help distribute pressure evenly, reducing stress on the geomembrane liner, ensuring long-term structural integrity.

Prefabricated liners: Prefabricated geomembranes reduce on-site adjustments and material wastage. Their precise fit speeds up installation, lowers labour costs, and ensures watertight integrity.

MULTITRACK SNW40
GEOTEXTILE

Page 42

MultiTrack Superior Nonwoven geotextiles are essential for attenuation tank installations, providing reliable protection to geomembranes. They serve as a cushioning layer, preventing damage from sharp objects like stone or debris, and ensure the geomembrane maintains its watertight integrity.

BESPOKE
GEOMEMBRANES

Page 73

Our custom-sized geomembranes offer a watertight solution for attenuation tanks, tailored to fit specific project requirements. Designed for durability and flexibility, they provide excellent containment and environmental protection.

APPLICATIONS

SUDS - PONDS AND WATER MANAGEMENT

The development of ponds, drainage systems, and water storage facilities is essential for managing stormwater and mitigating flood risks. However, these projects can face significant challenges, including water contamination, structural damage, and the loss of stored water.

Geosynthetics offer innovative solutions to these problems through containment and protection, ensuring the efficiency, durability, and environmental compatibility of SuDS components.

CHALLENGES IN DEVELOPMENT

Water contamination: Protecting water quality in ponds and storage systems from surrounding pollutants is a primary concern in SuDS design.

Structural integrity: The pressure from surrounding soils, especially in water storage areas, can threaten the structural integrity of these systems.

Water loss: Ensuring the efficient collection and retention of stormwater without leakage is crucial for the effectiveness of SuDS applications.

HOW CAN GEOSYNTHETICS HELP?

Containment: Geomembranes provide an impermeable barrier, preventing the entry of contaminants into ponds and water storage areas, and ensuring that stored water does not seep into the surrounding soil. This containment is vital for maintaining water quality and storage efficiency.

Protection: Geotextiles and protective geosynthetic layers safeguard geomembranes and other containment systems from punctures, abrasions, and damage during installation and use. This protection extends the service life of SuDS components and maintains their functionality.

SAVE MONEY OR TIME

SUDS - PONDS AND WATER STORAGE

Rapid installation: The ease of deploying geosynthetics compared to traditional materials speeds up construction, allowing for quicker project completion.

Reduced maintenance costs: By protecting water quality and structural integrity, geosynthetics lower the frequency and cost of maintenance operations.

Material efficiency: Geosynthetics require less material volume for the same level of effectiveness, reducing overall project costs.

Extended lifespan: The durability of geosynthetics ensures a longer lifespan, decreasing the need for future refurbishment or replacement.

Compliance and certification: Utilising geosynthetics helps meet environmental regulations and obtain necessary certifications more easily, avoiding fines and project delays.

Page 58

ECODECK
GEOPAVING

When filled with permeable materials such as gravel or soil, they facilitate natural infiltration of rainwater into the ground, reducing the burden on conventional drainage systems.

Page 72

1MM HDPE
GEOMEMBRANES

Provides an impermeable barrier that prevents water loss, ensuring long-term retention and stability. Its durability protect against punctures and seepage, making it ideal for containing water.

Page 70

CLAY LINER
GEOSYNTHETIC CLAY LINER

Clay liners ensure that water management practices do not compromise soil and water quality, aligning with the SuDS principle of improving water quality alongside managing water quantity.

APPLICATIONS

GARDENS

When developing gardens for decking, flower beds, planting areas, patios and sheds, various challenges can present themselves.

These challenges range from soil instability and water management issues to the need for durable support structures. Geosynthetics offer a suite of solutions to these problems, ensuring that garden spaces are not only aesthetically pleasing but also sustainable and functional.

CHALLENGES IN GARDEN DEVELOPMENT

Soil instability: Soft or unstable soil can undermine the foundation of garden structures, leading to shifting or settling that can damage decking, patios, and pathways.

Poor water drainage: Excessive water can lead to waterlogging, affecting plant health in flower beds and planting areas, and causing erosion or instability under hardscapes like patios and driveways.

Weed growth: Unwanted weed growth can compromise the appearance and health of garden spaces, requiring constant maintenance.

Structural integrity: The weight of vehicles on parking areas and driveways, or heavy garden features, requires a solid foundation to prevent sinking and damage over time.

HOW CAN GEOSYNTHETICS HELP?

Separation: Geotextiles act as a barrier, separating soil from aggregates in pathways, driveways, and under decking or patios, preventing mixing and maintaining structural integrity.

Filtration: In areas requiring drainage, such as flower beds or around greenhouses, geotextile filters allow water to pass through while retaining soil, preventing erosion and promoting healthy plant growth.

Reinforcement: Geosynthetics provide reinforcement for soil, distributing loads evenly in parking areas and driveways, and supporting the weight of sheds, greenhouses, and decorative landscaping features, preventing sinking and shifting.

SAVE MONEY OR TIME
GARDENS

Reduced maintenance: By preventing weed growth, geosynthetics lower the time and cost of garden maintenance.

Efficient water management: Geosynthetics improve drainage, reducing waterlogging and the need for complex drainage solutions, saving time in garden management.

Long-term durability: Geosynthetics extend the lifespan of garden features by providing stable foundations, reducing the need for repairs or replacements.

Quick installation: Lightweight and easy to handle, geosynthetics can be quickly installed, speeding up garden and DIY projects.

Material savings: By stabilising soil and preventing aggregate mixing, less material is required for garden projects, resulting in direct cost savings.

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WEEDSHIELD
GEOTEXTILES

Our weed suppression geotextiles block sunlight to inhibit weed growth while allowing air and water to reach the soil, promoting healthy plant development.

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ECODECK
GEOPAVING

Ecodeck can be filled with gravel, soil or decorative stones, making it an excellent solution for shed bases, patios and pathways, allowing drainage while providing reinforcement.

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TURFMESH
GEOMATS

Turfmesh will reinforce grassed areas, preventing soil erosion and wear while allowing natural grass growth, making them ideal for pathways, driveways, or high-traffic lawns.

APPLICATIONS

TREE ROOT PROTECTION

Protecting tree roots during construction and development projects is critical for the health of trees and the safety of the surrounding infrastructure.

However, developing land while ensuring the preservation of tree roots poses significant challenges, including ensuring the durability and reinforcement of the soil and providing adequate protection against mechanical damages. Geosynthetics offer a suite of solutions that address these issues, safeguarding tree roots while facilitating sustainable development.

CHALLENGES IN TREE ROOT PROTECTION

Soil compaction: Heavy machinery and construction activities can compact the soil around tree roots, reducing aeration and water permeability, which are vital for tree health.

Root damage: Without proper protection, construction processes can physically damage tree roots, leading to tree stress, disease, or even death.

Water drainage: Ensuring adequate water drainage while preventing erosion around root zones is essential for maintaining the moisture levels that trees need to thrive.

SAVE MONEY OR TIME
TREE ROOT PROTECTION

Reduced damage costs: By protecting tree roots effectively, geosynthetics save money on the costs associated with tree damage, removal, and replacement.

Efficient installation: Geosynthetics can be quickly and easily installed, reducing the time needed for root protection measures and speeding up the project timeline.

Lower maintenance needs: The durability and stability provided by geosynthetics reduce the need for ongoing maintenance and repairs, leading to long-term cost savings.

Versatility: Geosynthetics are suitable for a wide range of soil types and environmental conditions, eliminating the need for multiple, potentially more expensive solutions.

Regulatory compliance: Utilising geosynthetics for tree root protection can help meet environmental protection standards, such as Tree Protection Orders (TPOs).

GEOSYNTHETIC SOLUTIONS

Durability: Geocells and geogrids can be used to reinforce the soil, creating a durable structure that supports vehicular and pedestrian traffic without compacting the soil or damaging tree roots.

Stability: Geotextiles help to stabilise the soil around tree roots, preventing erosion and displacement while allowing for adequate water and nutrient flow to the roots.

Protection: Heavy-duty geomembranes and protective barriers shield tree roots from mechanical damage during construction activities, ensuring that the trees remain undisturbed and healthy.

PROTECTAWEB
GEOCELLS

Page 66

ProtectaWeb's cellular confinement system is a trusted solution for tree root protection, distributing loads to minimise soil compaction. It safeguards roots during construction while maintaining a stable surface for vehicles and pedestrians.

MULTITRACK SNW40
GEOTEXTILES

Page 42

MultiTrack geotextiles enhance tree root protection by providing effective separation and filtration. They prevent material migration and help maintain soil structure, ensuring roots remain undisturbed. MultiTrack can also help to protect tree roots by absorbing oil spills, thus preventing migration.

APPLICATIONS

CAR PARKS AND VEHICULAR ACCESS

The development of car parks and areas for vehicular access presents unique challenges, particularly in managing surface water runoff, ensuring ground stability under heavy loads, and protecting the underlying soil and water quality.

Geosynthetics are pivotal in addressing these issues, offering innovative solutions that improve the durability, safety, and environmental sustainability of these essential infrastructures.

CHALLENGES IN DEVELOPMENT

Drainage: Ineffective drainage can lead to water pooling on the surface, increasing the risk of flooding and degrading the surface material over time.

Stability: The ground must withstand the constant pressure and movement of vehicles without shifting or settling, which could lead to surface cracking and potholes.

Protection: Protecting the underlying soil and groundwater from contamination by oil and other pollutants is essential for environmental compliance.

GEOSYNTHETIC SOLUTIONS

Drainage: Geosynthetic drainage layers, such as geotextiles, facilitate efficient removal of surface and sub-surface water, preventing accumulation and promoting quick drying of the car park surface.

Stability: Geogrids and geocells improve the load-bearing capacity of the ground, distributing vehicle weights evenly to prevent rutting and deformation, thereby maintaining a stable and level surface.

Protection: Geotextiles act as a filtration barrier, preventing the ingress of pollutants into the soil and groundwater, while allowing water to pass through. This ensures environmental protection alongside effective drainage.

SAVE MONEY OR TIME

CAR PARKS AND VEHICULAR ACCESS

Quick installation: Geosynthetics are lightweight and easy to handle, allowing for rapid installation and reducing construction time compared to traditional methods.

Reduced maintenance: The stability and drainage improvements provided by geosynthetics decrease the need for repairs and maintenance, lowering costs.

Material savings: Geosynthetics can reduce the need for thicker layers of base materials by enhancing soil strength, leading to significant savings on fill and aggregate costs.

Environmental compliance: By incorporating pollution protection measures, geosynthetics help projects meet environmental regulations, avoiding potential fines.

Versatility: Geosynthetics are adaptable to various soil types and environmental conditions, minimizing the need for extensive ground preparation and soil replacement.

CELLTRACK / ECODECK

GEOPAVING

Page 60

CellTrack and Ecodeck provide permeable and durable surfacing solutions for car parks and vehicular access routes. These systems stabilise the ground, support heavy loads, and promote natural water infiltration, aligning with sustainable drainage system (SuDS) principles.

MULTITRACK / TERRATRACK LITE

GEOTEXTILES

Page 42

MultiTrack geotextiles ensure long-lasting performance for car parks and access routes by separating and stabilising aggregates. They prevent material migration, maintaining surface integrity and reducing maintenance requirements.

APPLICATIONS

EMBANKMENTS

The construction of embankments, crucial for roads, railways, and flood defences, poses significant engineering challenges. These structures must withstand natural forces and maintain their integrity over time, ensuring safety and functionality.

Geosynthetics play a critical role in overcoming these challenges, offering solutions that improve the reinforcement and protection of embankments.

CHALLENGES IN EMBANKMENT CONSTRUCTION

Soil erosion: Erosion caused by water runoff or wind can compromise the stability of embankments, leading to material loss and potential failure.

Slope stability: The pressure exerted by the embankment's mass, especially on soft soils, can lead to sliding or settling, endangering the structure's integrity.

Water damage: Water infiltration can weaken embankment materials, causing internal erosion and reducing their load-bearing capacity.

SAVE MONEY OR TIME
EMBANKMENTS

Reduced construction costs: By improving soil strength, geosynthetics reduce the need for expensive reinforcement methods, leading to significant material savings.

Faster construction: The ease and speed of installing geosynthetics allow for quicker project completion, saving time and labour costs.

Long-term durability: The increased stability and protection provided by geosynthetics extend the lifespan of embankments, reducing repair and maintenance needs.

Environmental benefits: Geosynthetics enable the use of local soils, minimising the environmental impact associated with transporting materials.

Versatility: Geosynthetics can be adapted to a wide range of soil types and conditions, offering flexible solutions to embankment construction challenges.

GEOSYNTHETIC SOLUTIONS

Reinforcement: Geogrids and geocells are used to reinforce the soil, increasing its strength and load-bearing capacity. This reinforcement helps to distribute stresses more evenly, preventing deformation and failure under heavy loads or in areas of soft soil.

Protection: Geotextiles provide erosion control, protecting the embankment from surface water runoff and wind erosion. Additionally, geomembranes can be used to create impermeable barriers that prevent water infiltration, protecting the internal structure from water damage.

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MULTITRACK
GEOTEXTILES

MultiTrack geotextiles stabilise embankments by separating and reinforcing soil layers, improving structural integrity and minimising maintenance needs.

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PROTECTAWEB
GEOCELLS

ProtectaWeb enhances embankment stability by confining fill materials and evenly distributing loads, reducing erosion and improving long-term performance.

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TRINTER
GEOMATS

Trinter erosion control mats protect embankment surfaces by encouraging vegetation growth, providing natural reinforcement, and preventing soil loss.

GEOTEXTILE
APPLICATION GUIDE

Function	Application	WeedShield	WeedShield Plus	FasTrack Shield
Weed Suppression	Bark / Mulch		Suitable	**Recommended**
	Decking		Suitable	**Recommended**
	Decorative stones (rounded)		Suitable	**Recommended**
	Flower beds	**Recommended**	Suitable	
	Garden borders	**Recommended**	Suitable	
	Pathways			**Recommended**
	Planting	**Recommended**	Suitable	
	Professional landscaping		Suitable	**Recommended**
	Raised planters	**Recommended**	Suitable	
	Rockeries / angular decorative stones			**Recommended**
	Vegetable patches	Suitable	**Recommended**	
Separation and reinforcement or filtration	Artificial grass			
	Compounds			
	French drains			
	Groundworks			Suitable
	Hardstanding areas			
	High visibility alarm and alert			
	Land drainage trenches			
	Parking areas / driveways			
	Patios			Suitable
	Preventing soil migration in green roofs			
	Roads / highways subject to heavy traffic			
	Shed bases			Suitable
	SuDS compliant systems			
	Temporary roads			
	Under grass / gravel pavers (Ecodeck / CellTrack)			Suitable
	Wrapping soakaways			
Separation, filtration and protection	Attenuation tanks (protection)			
	Embankment stabilisation			
	Erosion control			
	Geomembrane impermeable liners (protection)			
	Horse menage and equestrian build up - High intensity usage			
	Tree root protection (ProtectaWeb)			

FasTrack 609	FasTrack Orange	TerraTrack Lite / MultiTrack 700	MultiTrack 1000	MultiTrack SNW40
		Suitable		
		Suitable		
		Suitable		
		Suitable		
		Suitable		
		Recommended		
Recommended			Suitable	
		Suitable	**Recommended**	
Recommended			Suitable	
Recommended			Suitable	
	Recommended			
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Suitable		Suitable	**Recommended**	
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		Recommended	Suitable	
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				Recommended
				Recommended

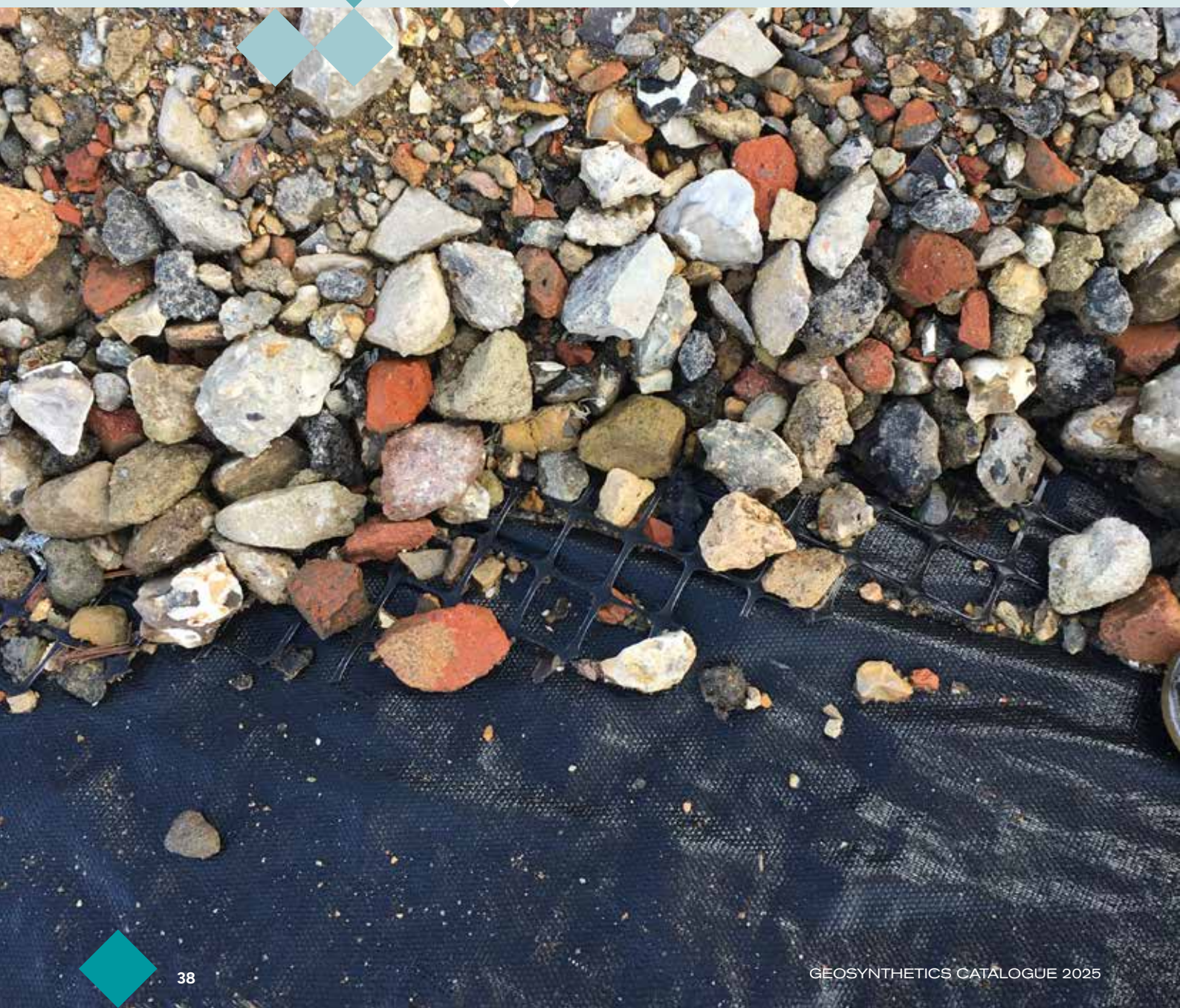
GEOTEXTILES

Geotextiles play a vital and long-lasting role in improving ground conditions in a wide variety of construction projects, from road building and car parks, to drainage systems and railways.

A woven geotextile is manufactured from synthetic material, woven together to form a uniform sheet and provides more tensile strength than a nonwoven textile, per weight of product.

Nonwoven geotextiles are manufactured by entangling fibres together, either by thermally bonding or by needle punching. This creates a random structure with a relatively larger pore size, making them ideal in filtration and drainage applications, with long term separation.

Robust, flexible, reliable and durable, our woven and nonwoven geotextile ranges are available in a variety of sizes, and provides huge benefits across a wide range of both large and small-scale construction works.

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FASTRACK
WOVEN GEOTEXTILES

Our market-leading woven geotextiles give outstanding performance. Their high load capacity and tensile strength, coupled with a relatively low elongation, provides a high material resistance to breaking under tension.


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MULTITRACK
NONWOVEN GEOTEXTILES

MultiTrack is a needle-punched or thermally bonded nonwoven geotextile that offers many benefits where separation, filtration and protection functions are required. It delivers excellent durability and drainage functions in addition to its very high-water flow capability.


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TERRATRACK
NONWOVEN GEOTEXTILES

A highly permeable white nonwoven geotextile, available exclusively in mini rolls.

This range has been developed to maintain performance while optimising pricing and logistical advantages for customers.


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WEED SUPPRESSION
GEOTEXTILES

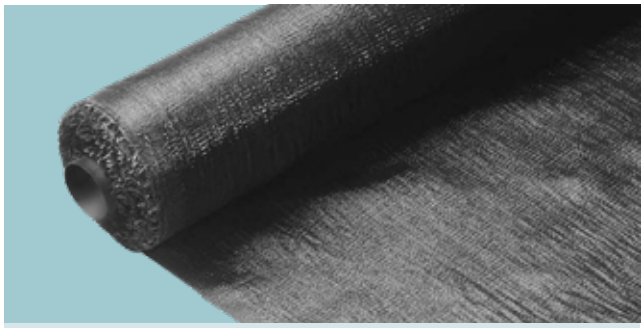
WeedShield, WeedShield Plus and FasTrack Shield are a comprehensive range of weed suppression textiles. Crafted for functionality and quality, our collection comes in three distinct variants designed to meet various gardening needs.

WOVEN GEOTEXTILES
FASTRACK

Our market-leading woven geotextiles give outstanding performance. Their high load capacity and tensile strength, coupled with a relatively low elongation, provides a high material resistance to breaking under tension.

This provides for an ideal separation and reinforcement product, making them a great, cost-effective choice for roads, car parks and other heavy traffic areas.

Woven geotextiles provide a great solution for the separation of granular fill materials and for the provision of sub structure support. The most common application is use as a separating layer beneath roads, helping to prevent rutting through separation and providing tensile support.



Separation Reinforcement

FASTRACK

FasTrack woven geotextile fabrics are produced with long term performance in mind. Available in CBR puncture resistance ranging from 1,500N to 9,000N. The range includes our ever popular FasTrack 609.

QUICK GLANCE DATA

FasTrack	
Roll size(s)	4.5 x 100m *Mini packs also available*
CBR puncture resistance	1,500N to 9,000N
Weight	75g/m^2 to 356g/m^2

Separation Reinforcement

FASTRACK ORANGE

Based on our popular FasTrack 609 geotextiles, FasTrack Orange prevents the intermixing of contaminated and uncontaminated soils and its bright colour also alerts users and future users to the potential danger of further excavation.

QUICK GLANCE DATA

FasTrack Orange	
Roll size(s)	4.5 x 100m
CBR puncture resistance	1,500N
Weight	75g/m^2

FIND OUT MORE

See **page 78** for our full range of roll sizes, including mini packs, folded packs and product codes.

Visit **geoworks.eco** for datasheets, product information and much more

NONWOVEN GEOTEXTILES

MULTITRACK

MultiTrack is a thermally bonded or needle-punched, nonwoven geotextile that offers many benefits where separation, filtration and protection functions are required.

It delivers excellent durability and protection in addition to its very high-water flow capability.

It can also be used for erosion control and protect membranes from being punctured. Ideal for roads, car parks and drainage systems.

Other highlights include:

- A comprehensive selection with a range of weights
- Available in nonwoven (NW) and superior nonwoven (SNW), both needle-punched with NW being thermally bonded too.
- An efficient option to tackle critical separation functions
- Superior permeability and pore size provides highly effective drainage
- High puncture resistance and permeability make our SNW range ideal for membrane protection, where sharp rocks and damp conditions can cause significant issues for many geotextiles

Separation Filtration

MULTITRACK NW

MultiTrack Nonwoven (NW) was developed for separation and filtration in a wide range of groundworks applications. MultiTrack NW has been manufactured using a unique thermal bonding process, the NW range has excellent filtration properties, making it ideal for use in a variety of construction applications including roads, car parks and drainage systems.

QUICK GLANCE DATA

MultiTrack NW	
Roll size(s)	4.5 x 100m, 5.25 x 100m
CBR puncture resistance	1,000N to 3,600N
Weight	80g/m² to 300g/m²

Separation Filtration Protection

MULTITRACK SNW

MultiTrack Superior Nonwoven (SNW) geotextiles are manufactured by needle punching a web of high tenacity fibres to produce a consistent and uniform product of highest performance.

QUICK GLANCE DATA

MultiTrack SNW	
Roll size(s)	4.0 x 100m, 5.25 x 100m *Mini rolls also available*
CBR puncture resistance	1,700N to 11,500N
Weight	150g/m² to 1,000g/m²

FIND OUT MORE

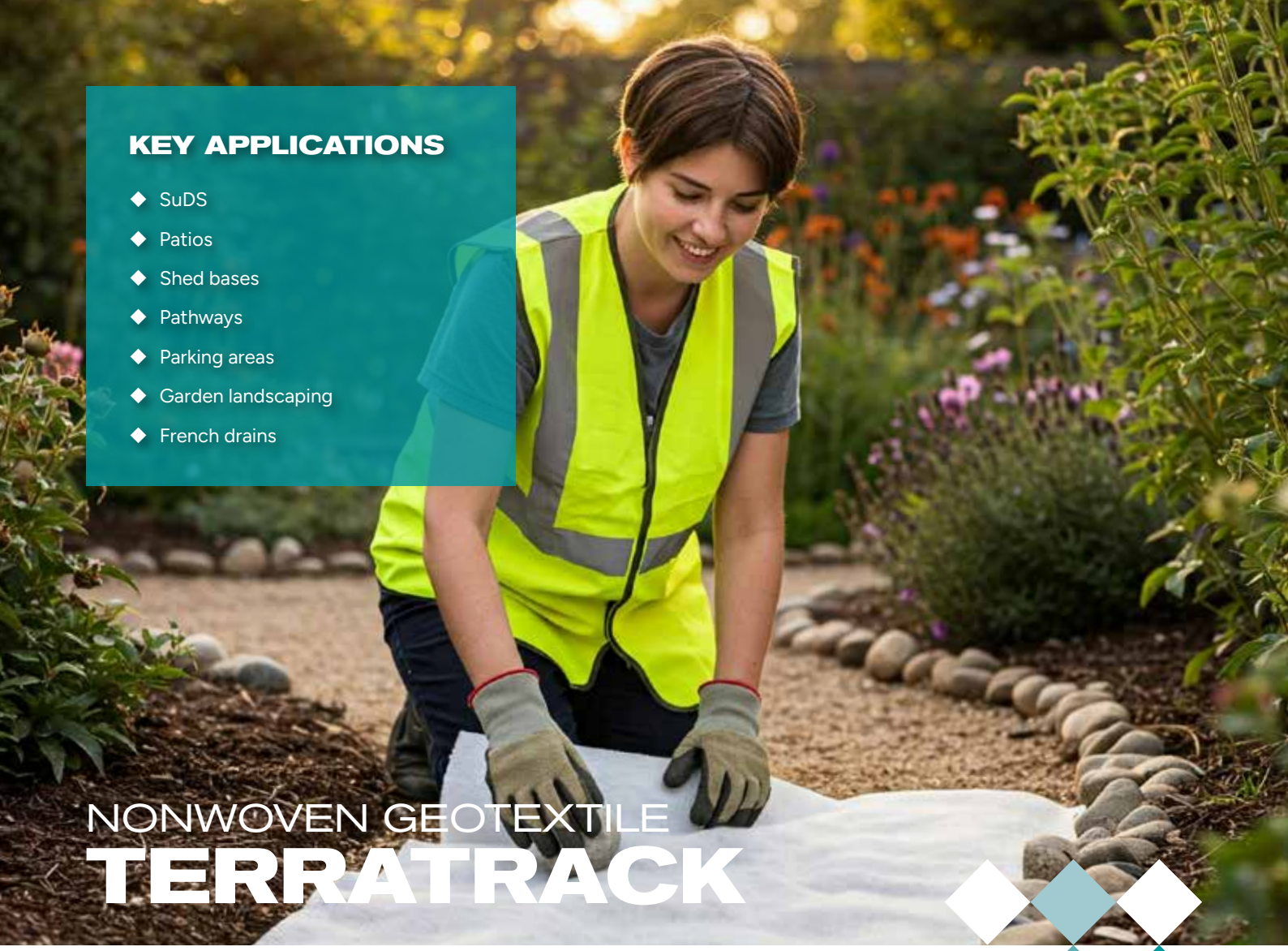
See **page 79** for our full range of roll sizes, including mini packs and product codes.

Visit **geoworks.eco** for datasheets, product information and much more

DID YOU KNOW?

We are proud that our MultiTrack 1000 nonwoven geotextile meets the recommendations of BS 8661 - the UK's benchmark for geotextile materials.

Designed to meet profile 1 recommendations, it delivers the high mechanical performance expected from high-extension geotextiles.



KEY APPLICATIONS

- SuDS
- Patios
- Shed bases
- Pathways
- Parking areas
- Garden landscaping
- French drains

NONWOVEN GEOTEXTILE

TERRATRACK

TERRATRACK LITE

HIGHLY PERMEABLE SEPARATION TEXTILE

We're pleased to introduce TerraTrack Lite, our newest geotextile designed to support domestic and small construction projects, offering solutions for contractors, landscapers and DIY enthusiasts.

WHAT IS TERRATRACK LITE?

A flexible, nonwoven geotextile offering high permeability and reliable separation and filtration performance. It's made for situations where ground conditions call for effective drainage and stability.

Designed to enhance efficiency, reduce costs, and simplify stock management, this new product range replaces our existing MultiTrack 1000 mini packs and rolls, offering a more streamlined and cost-effective solution.

KEY BENEFITS:

- ✓ Enhances ground preparation and drainage
- ✓ Prevents mixing of soil layers, reducing settlement risk
- ✓ Supports water flow in line with SuDS principles
- ✓ Easy to handle and install on-site

Free point of sale unit available upon request.

HOW CAN TERRATRACK LITE HELP ME?

Whether you're working on a garden, driveway, or larger landscaping project, TerraTrack Lite offers a simple, effective way to stabilise ground and improve drainage. Here's how it can support your work.

DIY ENTHUSIASTS AND GARDENERS

DIY enthusiasts and gardeners will find the design easy to install, even without prior experience. Pre-measured rolls make planning straightforward, while the durable material ensures reliable, professional-looking results.

MERCHANTS

The rolls are compact, and the dimensions have been carefully designed to fit within a POS (Point of Sale) box, which is available free of charge to stockists, allowing for improved stock management and awareness.

LANDSCAPE CONTRACTORS

TerraTrack Lite provides a cost-efficient solution for outdoor projects. The roll sizes ensure faster installation times, reducing labour costs and project durations. TerraTrack Lite ensures long-term performance for clients seeking high standards and longevity in their landscaping solutions.

HOUSEBUILDERS

Housebuilders benefit from these products' ability to improve functionality and visual appeal. Their lightweight, compact design simplifies transport and handling, while efficient coverage reduces material waste - helping streamline operations and cut costs.

Separation

Filtration

TERRATRACK LITE

A highly permeable white nonwoven geotextile, available exclusively in mini rolls. This range has been developed to maintain performance while optimising pricing and logistical advantages for customers.

QUICK GLANCE DATA

FasTrack	
Roll size(s)	1 m x 14 m 2.25 m x 25 m 2.25 m x 50 m
CBR puncture resistance	1,100 N
Tensile Strength	6.5 kN/m

FIND OUT MORE

See **page 78** for our full range of roll sizes and product codes.

Visit **geoworks.eco** for datasheets, product information and much more

POS BOXES
AVAILABLE ON REQUEST

GEOTEXTILES

WEED SUPPRESSION

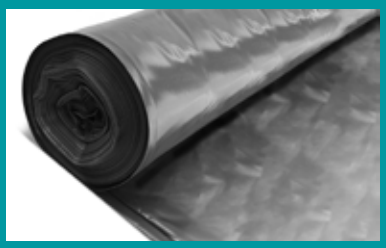
WeedShield, WeedShield Plus and FasTrack Shield is our comprehensive range of weed suppression textiles.

Crafted for functionality and quality, our collection comes in three distinct variants designed to meet various gardening needs. Using our geotextiles for weed suppression offers a reliable and long-lasting solution to keep unwanted vegetation under control.

Our geotextiles create a strong barrier that blocks sunlight, limiting weed growth while allowing water and nutrients to pass through to the soil, promoting healthier plants and easier maintenance.

WORKS WELL WITH...

In addition to weed suppression, we also have products suitable for assisting with the control of unwanted or invasive roots.



1mm HDPE Geomembrane

Durable 1mm HDPE membrane, designed to act as a highly effective root barrier. This further prevents invasive roots from penetrating unwanted areas, ensuring long-term landscape protection and easy maintenance

SNW40 Nonwoven Geotextile

Our SNW40 superior nonwoven has a high tensile strength and a high puncture resistance, making it a robust permeable nonwoven geotextile for guarding and protecting buildings, walls, paths, roads, pipes and membranes from potential root damage.

Separation Filtration

WEEDSHIELD

Where functionality meets affordability. WeedShield is your go to for decking, flower beds and planting, giving you reliable weed control.

WEEDSHIELD PLUS

Need a bit more resilience? Upgrade to WeedShield Plus. It's designed for more substantial decking, landscaping and planting jobs, offering improved durability and longer-lasting weed suppression.

QUICK GLANCE DATA

WeedShield	
1 x 14	GTWEEDSHIELD/1X14
2 x 25	GTWEEDSHIELD/2X25
2 x 50	GTWEEDSHIELD/2X50

WeedShield Plus	
1 x 14	GTWEEDSHIELDP/1X14
2 x 25	GTWEEDSHIELDP/2X25

Separation

FASTRACK SHIELD

For the ultimate in weed control, our FasTrack Shield is the best choice. Made from robust woven geotextile, delivering the highest level of weed suppression for groundworks, paths and patios.

QUICK GLANCE DATA

FasTrack Shield	
1 x 15	GTFASHIELD/1X15
2 x 25	GTFASHIELD/2X25
2 x 50	GTFASHIELD/2X50
4.5 x 11	GTFASHIELD/4.5X11
4.5 x 100	GTFASHIELD/4.5X100

APPLICATION GUIDE

	WeedShield	WeedShield Plus	FasTrack Shield
Bark / Mulch		Suitable	**Recommended**
Decking		Suitable	**Recommended**
Decorative stones (rounded)		Suitable	**Recommended**
Flower beds	**Recommended**	Suitable	
Garden borders	**Recommended**	Suitable	
Pathways			**Recommended**
Planting	**Recommended**	Suitable	
Professional landscaping		Suitable	**Recommended**
Raised planters	**Recommended**	Suitable	
Rockeries / angular decorative stones			**Recommended**
Vegetable patches	Suitable	**Recommended**	

GEOGRIDS

Creating a safe working environment in construction projects is of vital importance - but those initial site compounds and haul roads can have a big impact on resources for contractors, both at the project planning stage and when on site.

That's where geogrids can prove their value as a cost-effective, durable and easy-to-install method of reinforcement in groundworks, allowing force to be distributed over a larger area, reducing settlement and movement. They can reduce the thickness of haul roads and piling platforms, resulting in cost and time savings while supporting and protecting the local environment.

Our geogrids are used to reinforce soft, unstable soils and similar materials in subsoils below road structures, sub-bases and earth-retaining walls.

When granular fill is compacted over the grids, they partially penetrate and project through the apertures to create a strong and positive interlock. The load dispersal effect from the interlocking mechanism increases shearing resistance within the fill material, improving compaction and allowing the sub-base thickness to be decreased, ultimately reducing construction time and costs and increasing longevity.

E'GRID
BIAXIAL GEOGRIDS

E'GRID is our premium range of biaxial geogrids. Designed to reliably solve road and pavement problems by providing reinforcement to granular sub-bases. E'GRID provides reliable long-lasting performance with significant carbon and cost savings.

SX GRID
BIAXIAL GEOGRIDS

SX Grid is a biaxial geogrid that provides a cost-effective solution to solve pavement problems by providing reinforcement to granular sub-bases including compounds, haul road and working platforms in areas of weak or variable soils.

SX COMPOSITE
GEOCOMPOSITE

SX Composite is a geogrid and geotextile combined into one thermally bonded solution for separation and reinforcement, providing significant time and cost savings.

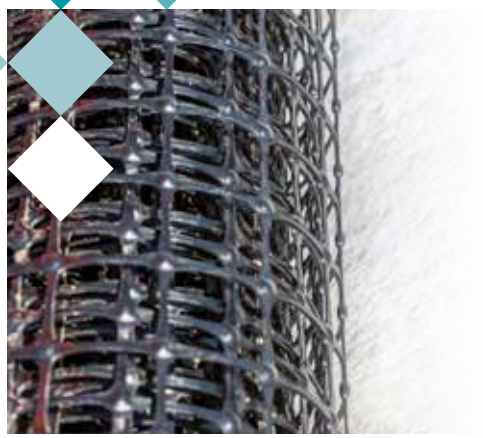
- Online savings calculator available
- CPD available

BIAXIAL GEOGRIDS
E'GRID™

E'GRID is our premium range of biaxial geogrids, offering a 100 year design life. Available in a choice of roll sizes, including large aperture variants, E'GRID uses a proven square shape which has been installed in real world applications for over 40 years.

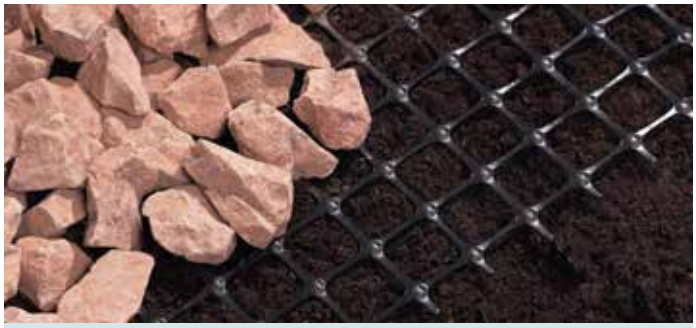
Proven through independent, peer reviewed testing, unlike its alternatives, E'GRID gives specifiers and contractors confidence in a long-lasting solution that's quick and simple to install while providing significant cost and CO_2e savings.

E'GRID biaxial geogrids can solve road and pavement problems by providing reinforcement to granular sub-bases, capping layers & railway ballasts in areas of weak or variable soils. When granular particles are compacted over a geogrid, they partially penetrate and project through the apertures, creating a strong and positive interlock.



E'GRID 3030L is approved by Network Rail with Certificate of Full Acceptance number PA05/05826.

To achieve this E'GRID underwent a vigorous auditing process, including having to provide justification for the product by demonstrating its monetary, safety and performance benefits to Network Rail.



Reinforcement

QUICK GLANCE DATA

E'GRID Biaxial			
Roll size(s)	4 x 50m	4 x 50m	4 x 30m
Tensile strength (MD/CMD)	20/20kN/m	30/30kN/m	40/40kN/m

Bespoke specifications available including on-site visits

BENEFITS OF E'GRID BIAXIAL GEOGRIDS

- 100 year design life
- 40% cost savings available
- 50% reduction available in the thickness of a compound or haul road
- Triple the load capacity on road and highway projects
- E'GRID 3030L is approved by Network Rail
- Cost-effective
- Faster than traditional construction methods
- More environmentally friendly - 20 to 40% reduction in the carbon emissions associated with road construction
- Available in standard and large aperture size
- Suit any fill material, and can be installed in single or multiple layers

CARBON SAVINGS WITH E'GRID

Our geogrids can play a significant role in reducing carbon emissions across a project. There's numerous ways this is achieved, including:

- By reducing the amount of earthworks required on-site before the grids go into the ground. This reduces the amount of plant required, and their associated emissions.
- Reducing the thickness of a haul road, compound or similar. This thickness is created with aggregate which requires extraction, processing, and transport. By minimising the aggregate, you will significantly reduce embodied carbon. Our geogrids can provide equivalent load bearing capabilities to sub-bases twice as thick, providing aggregate savings of up to 50%.
- Minimising the likelihood of repairs. Geogrids provide reinforcement, leading to higher quality, stronger sub-bases, which can result in longer lasting and harder wearing installations, requiring less repairs and maintenance.

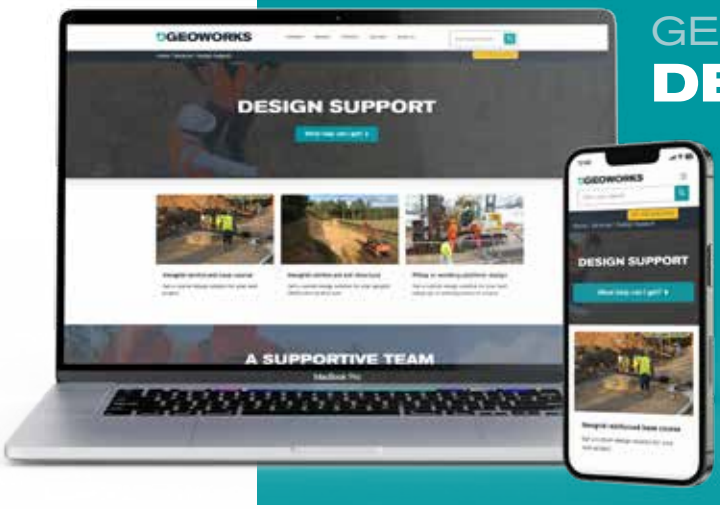
SAVINGS CALCULATOR

Instead of merely claiming a greener approach, we're making it possible for environmental efforts to be evidenced.

Our geogrid aggregate savings calculator is the tool to help see how much carbon and money can be saved by using E'GRID 3030 biaxial geogrid on a project.

See how much you could save today, by simply entering a few key details.

geoworks.eco/calculate



GEOGRIDS
DESIGN SUPPORT

We have developed a strong reputation in the civil engineering sector thanks to our skilled teams wealth of experience. We offer the best technical expertise with exceptional customer support.

Our team works with asset owners, developers, main contractors, ground workers and local authorities throughout a construction scheme's lifecycle.

Find out more about all of our design services at **geoworks.eco**

REINFORCED BASE COURSE

Geogrid reinforced base courses are an effective and sustainable solution for reinforcing subgrade soils and improving the performance of base courses.

Once you have input your details, our team of experts will review your information and provide you with a custom design solution to fit your project's requirements.

REINFORCED SOIL STRUCTURE

Reinforced soil structures using geogrids are a type of reinforcement technique that has been widely used in highway, railway, building and other engineering fields. Geogrids are used to provide additional strength, control erosion, and increase the overall stability of the structure.

These structures can improve bearing capacity and reduce the settlement of the footing.

PILING PLATFORM

Piling rigs play a crucial role in various construction scenarios, including the construction of deep basements and the installation of heavy machinery such as wind farm turbines. The integrity of the ground beneath these rigs is paramount to ensure safe and efficient operations.

Input your details into the form and one of our expert team will review your information and provide you with a custom design solution to fit your project's requirements.

BIAXIAL GEOGRIDS
SX GRID

SX biaxial geogrids can solve construction problems by providing reinforcement to granular sub-bases & capping layers in areas of weak or variable soils.

SX Grid allows granular particles to be compacted over them, partially penetrating and projecting through the apertures. This creates a strong and positive interlock which increases shearing resistance within the soil, improving compaction and allowing the sub-base thickness to be decreased while allowing loads to be dispersed.

Reinforcement

QUICK GLANCE DATA

SX Grid Biaxial	
Roll size(s)	4 x 50m
Tensile strength (MD/CMD)	20/20kN/m 30/30kN/m

COMPOSITE GEOGRIDS

SX COMPOSITE

Achieve time savings when acquiring materials and overall quicker installations, thanks to SX Composite, a geogrid and geotextile hybrid that performs the functions of both.

SX Composite consists of a high-grade nonwoven geotextile thermally bonded to our SX geogrid. It combines the functions of reinforcement, separation and filtration into one single product, rather than having to use two separate solutions.

Geogrids and geotextiles are often used together to provide reinforcement, separation, and filtration properties. This can be on projects such as haul roads, permanent roads, working platforms and compounds where there is low formation CBR.

SX Composite, combines all three functions into one, thermally bonded solution, providing significant time, labour and cost savings. Available in the most popular tensile strength, 30/30kN/m, ensuring specifiers and installer always has a solution on hand.

Developed with customer feedback and increased demand on construction materials in mind. Thanks to its multi-purpose function, you can save time when acquiring materials, and achieve an overall quicker installation.

Separation Filtration Reinforcement

SX COMPOSITE

With SX Composite Geogrids you'll only need to ship, handle and install a single roll, offering a significant reduction in carbon during transport and handling versus using separate materials.

QUICK GLANCE DATA

SX Composite 3030	
Roll size(s)	5.2 x 50m
Tensile strength (MD/CMD)	30/30 kN/m

EXPERT SUPPORT

EXPERT HELP, WHEN YOU NEED IT

We pride ourselves on providing expert advice, helpful solutions and reliable products, and this new range is an extension of that commitment.

It's important to us that all our ranges and solutions are simple to understand and don't slow down projects with unnecessary jargon or blockers. Our team of knowledgeable experts are always on hand to support, at any stage of a project.

Call our geosynthetics team on 01543 440 480 to discuss your project.

IMPROVED STABILITY

Achieve improved reinforcement on haul roads and access roads.

CARBON SAVINGS

Reduced aggregate usage and shipping fewer products provides carbon savings on every project.

INCREASED USAGE

SX Composite Geogrid offers increased usage ability for hard-to-reach or remote-access roads.

REDUCED COSTS

Achieve reduced labour and plant costs during every installation.

GEOPAVING

Grass and gravel pavers for a range of projects, including car parks, driveways, parking spaces and shed bases.

The geocellular confinement of geopaving products ensures that, once installed and infilled, the product is virtually invisible from the surface. It then can be infilled with soil to promote grass growth or gravel to create car parks, decorative driveways and paths.

Geopaving products can also be used for shed bases or small garden-building bases by providing a stable, permeable, and durable foundation. These systems are laid directly on compacted ground and filled with gravel or soil to create a level surface that evenly distributes weight, preventing sinking or shifting. Their open-cell design allows for natural drainage, reducing water pooling and minimising environmental impact, making them an eco-friendly and low-maintenance choice for garden structures.

ACCESSIBLE, COMPLIANT GRAVEL RETENTION

CellTrack and Ecodeck offer firm, stable ground for pathways, parking, and access routes, helping to meet the requirements of the Equality Act 2010 and associated guidance on accessibility. When correctly installed, these systems support inclusive access for wheelchair users, mobility aids, and all users.

KEY CONSIDERATIONS FOR COMPLIANT SURFACING

To ensure safe, accessible surfaces, fill materials should be consistent and level with the top of the grid. Where routes include gradients, level landings at appropriate intervals support ease of use. Minimum path widths should be maintained in line with best practice for inclusive design.

ECODECK
GEOPAVING

Ecodeck is ideally suited to a variety of light to medium-duty applications, including driveways, parking areas, decorative landscaping, shed bases, and more for domestic and commercial purposes.

CELLTRACK
GEOPAVING

CellTrack is a permanent panelled system that is virtually invisible from the surface once in-filled. Designed for quick and easy installation, panels simply interlock together and incorporate small ground spikes which provide anchorage during installation.

CELLTRACK HD
GEOPAVING

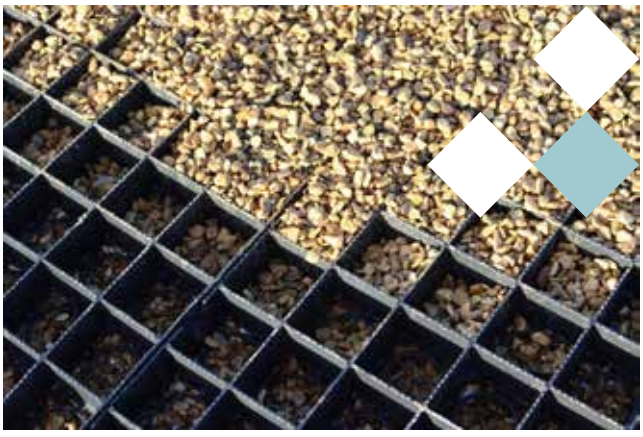
CellTrack HD is a heavy duty alternative to our regular Celltrack range. It adapts seamlessly to various applications, whether you're constructing coach parking, truck yards, or fire access routes. It works with soil, gravel, or other fill materials.

GEOPAVING ECODECK

Ecodeck is a UK manufactured, 100% recycled plastic geopaving solution that comes with a 10-year guarantee. Ecodeck is ideal for shed bases, driveways, parking spaces, walkways, access roads, and small building bases (sheds and greenhouses).

Ecodeck improves ground stability, achieving SuDS compliant permeable surfaces and compliance with the Flood & Water Management Act of 2010, encouraging the use of permeable surfaces to mitigate against flooding.

Lightweight to handle, yet robust enough for a wide variety of projects, you can rest assured that Ecodeck is the solution you need. Ecodeck is simple to install, the panels simply interlock together.



100% RECYCLED CONTENT

Ecodeck is made entirely from 100% recycled materials, embodying the principles of a circular economy. By repurposing post-consumer and post-industrial plastic waste, Ecodeck contributes to sustainable industry practices, aligning with the United Nations' Goal 12 for sustainable consumption.

Our commitment to the environment not only delivers exceptional performance but also supports the global initiative to combat climate change.

BAY MARKERS

Easy to use parking bay markers are available, in white as standard. If you require a specific colour, please contact us with your requirements.

Reinforcement

Protection

ECODECK

Ecodeck is ideally suited to a variety of light to medium-duty applications, including driveways, parking areas, decorative landscaping, shed bases, and more for domestic and commercial purposes.

Ecodeck is manufactured from 100% recycled plastic, offering a high-quality, eco-friendly and sustainable geopaving solution that provides ground protection and reinforcement.

SUITABLE APPLICATIONS

Ecodeck 40: Courtyards, decorative landscaping, forecourts, greenhouse & shed bases, parking areas, pathways, private driveways, patios

Ecodeck 50: Access roads, car parks, caravan and camp sites, public driveways

QUICK GLANCE DATA

	Ecodeck 40	Ecodeck 50
Panel size	500 x 500mm	500 x 500mm
Panel depth	40mm	50mm
Colour	Black	Black

GEOPAVING APPLICATION GUIDE

Use our online tool to help youselect the right geopaving product for your project.

Find out more at **geoworks.eco**

KEY APPLICATIONS

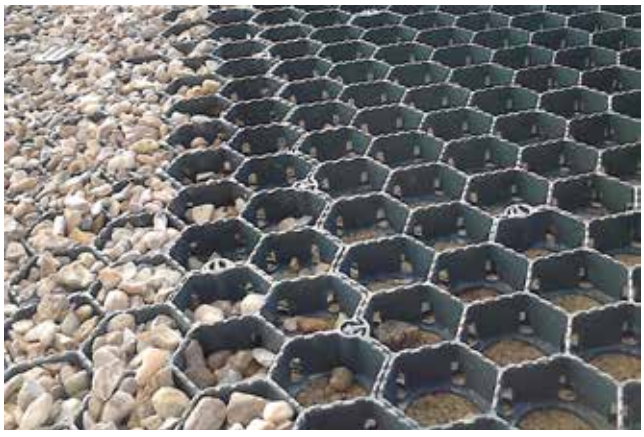
- Public parks
- Overspill car parks
- Public and private driveways
- Footpaths
- Caravan and camp sites
- Emergency vehicle access tracks

SuDS COMPLIANT

GEOPAVING CELLTRACK

CellTrack is a permanent panelled system that is virtually invisible from the surface once in-filled. Designed for quick and easy installation, panels simply interlock together and incorporate small ground spikes which provide anchorage during installation.

CellTrack can be used with a variety of fill materials, allowing developers to rapidly build new access areas such as access roads and car parks, which are both pleasing to the eye and consistent with the existing environment.



Reinforcement

Protection

CELLTRACK

Designed for quick and easy installation, panels simply interlock together and incorporate small ground spikes which provide anchorage during installation.

CellTrack is a permanent panelled system that is manufactured from recycled plastics. Virtually invisible from the surface once infilled, the product can be infilled with soil to promote grass growth or gravel to create decorative driveways and paths.

CellTrack is available in 1,200mm x 800mm panels. In all applications CellTrack provides excellent support for vehicular traffic.

QUICK GLANCE DATA

CellTrack	
Tile size	1,200 x 800mm
Tile depth	38, 50mm

ENVIRONMENTAL ADVANTAGES

RECYCLED MATERIALS

CellTrack is made entirely from 100% recycled materials, embodying the principles of a circular economy. By repurposing post-consumer and post-industrial plastic waste, CellTrack contributes to sustainable industry practices, aligning with the United Nations' Goal 12 for sustainable consumption.

Our commitment to the environment not only delivers exceptional performance but also supports the global initiative to combat climate change.

KEY APPLICATIONS

- Emergency vehicle access tracks
- Coach parking
- HGV parking
- Lorry parking
- Construction vehicle access tracks

SuDS COMPLIANT

GEOPAVING

CELLTRACK HD

When building heavy-duty access areas, less is often more. That's why the CellTrack HD is a standout solution, offering all the performance benefits of deeper alternatives but with substantial advantages in cost, time, and environmental impact.

Available in 50mm depth, CellTrack HD adapts seamlessly to various applications, whether you're constructing coach parking, truck yards, or fire access routes. It works with soil, gravel, or other fill materials, offering a porous, visually appealing solution that integrates with the surrounding environment. The maximum recommended speed for use with Celltrack HD is 15 mph.

Reinforcement

Protection

CELLTRACK HD

CellTrack HD offers all of the design and installation benefits of CellTrack but in a heavy duty panel, that is design to withstand high loading capacities.

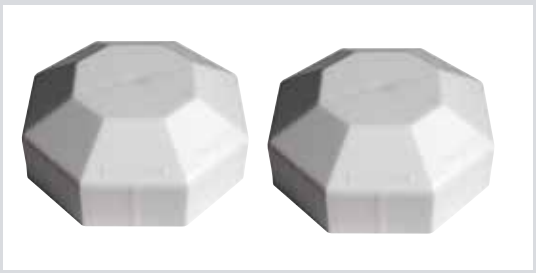
CellTrack HD is a permanent panelled system manufactured from recycled plastics.

Designed for HGV loading, it is also suitable for high intensity traffic situations, fire tender access and dust cart traffic.

CellTrack HD can be used with a variety of fill materials including grass and gravel. Allowing developers to build new access areas such as coach and truck parking areas, which are both pleasing to the eye, porous and consistent with the existing environment.

QUICK GLANCE DATA

CellTrack HD	
Tile size	600 x 400mm
Tile depth	50mm



BAY MARKERS

Easy to use parking bay markers are available in white as standard. If you require a specific colour, please contact us with your requirements.

WHY CHOOSE 50MM CELLTRACK HD?

Cost-Effective Construction

- Requires less stone for backfilling, significantly cutting material costs.
- Reduces excavation depth, meaning less labour, time, and equipment are needed.
- These efficiencies lead to lower overall project costs without compromising on durability or load-bearing capacity.

Fast and Simple Installation

- Shallower excavation ensures quicker groundwork preparation.
- Ideal for projects with tight deadlines or restricted access.

Sustainability Built-In

- Manufactured from 100% recycled plastics, supporting environmentally conscious developments.
- Reduced excavation and material use lowers the carbon footprint of your project.

Designed for Heavy Loads

- Withstands high traffic and heavy loads, for example from construction vehicles.

GEOCELLS

Geocells provide cellular confinement for a range of projects, including slope reinforcement and the essential need to protect tree roots.

Geocells are an ideal solution for erosion control on embankments and slopes, even steep ones. Once infilled, the concertina-like system of our ProtectaWeb provides a semi-rigid foundation that reduces the amount of materials needed to create stability and protection, saving time and money.

ProtectaWeb can also be used for tree root protection by creating a flexible, load-distributing system that reduces soil compaction and shields roots from damage caused by traffic or heavy equipment. This approach preserves tree health and structural stability in areas like roads, parking lots, or construction sites.

PROTECTAWEB

GEOCELLS

ProtectaWeb performs two main functions, slope stabilisation and erosion control when used on slopes and the protection of tree roots when used for car parks or access roads near to existing trees.

GEOCELLS
PROTECTAWEB

Our ProtectaWeb is an established and proven method of constructing access tracks or parking areas close to tree roots without causing them undue stress and possible damage.

We've developed the range to be the most cost-effective and environmentally sensitive answer to striking the right balance between creating vehicular access and tree root protection.

ProtectaWeb, when used for slope reinforcement, provides contractors with a straightforward installation, even on steep banks and slopes. ProtectaWeb is an incredibly cost-effective solution for reinforcement and can significantly reduce the fill requirement.

Reinforcement Protection

PROTECTAWEB
TREE ROOT PROTECTION

ProtectaWeb is a proven no-dig method of enabling the creation of access ways or parking areas close to nearby trees. The unique composition and strength of ProtectaWeb ensures this can be done without compacting the soil, which can cause irreparable harm to the tree's life support system.

Legislation is in place to ensure the construction industry preserves trees where appropriate.

QUICK GLANCE DATA

ProtectaWeb	
Expanded section area	20m^2
Expanded section size	2.71 x 7.38m
Tensile strength	20kN/m
Depths	75, 100, 150, 200mm

Reinforcement Protection Erosion control

PROTECTAWEB
EROSION CONTROL

ProtectaWeb slope reinforcement provides contractors with straightforward installation, even on steep banks and slopes. A perforated panelled system, ProtectaWeb is an incredibly cost-effective solution for reinforcement and can significantly reduce the fill requirement.

Common fill materials can be used, even in locations of high load intensity. When infilled, ProtectaWeb provides a semi-rigid foundation.

QUICK GLANCE DATA

ProtectaWeb	
Expanded section area	20m^2
Expanded section size	2.71 x 7.38m
Tensile strength	20kN/m
Depths	75, 100, 150, 200mm

KEY APPLICATIONS

- Car park areas
- Tree root protection
- Access roads
- Driveways
- Footpaths
- New housing developments
- Slope stability
- Erosion control
- Retaining structures
- Channel protection
- Basal reinforcement

GEOMEMBRANES AND CLAY LINERS

Geomembranes are one of the most versatile products used in SuDS systems, waterproofing, landfill sites and below ground drainage containment.

A highly reliable choice as a liner in Sustainable Urban Drainage (SuDS) applications, to help prevent leakage of liquids, geomembranes are an ideal solution wherever fluid movement needs to be controlled.

Available in a variety of roll sizes, our impermeable geomembranes are manufactured to current European standards and can be tailored for a huge range of civil engineering projects.

We also supply pre-formed welded liners, reducing installation time frames and costs of specialist machinery and labour associated with full installation packages.

GCL 4500
CLAY LINERS

Our GCL range are mechanically bonded geosynthetic clay liner composites of sodium bentonite embedded between two layers of geotextile. Additional bentonite can be added to the overlap edges for ease of sealing.

GT MEMBRANE 500
GEOMEMBRANES

GT Membrane 500 is a standard impermeable geomembrane made from polyethylene and is used for a variety of applications where containment functions are required.

HDPE
GEOMEMBRANES

HDPE geomembranes are the most commonly specified liners in the construction industry. Tried and tested, our HDPE membranes are resistant to most chemicals, are extremely robust and have a high stress fracture resistance.

BESPOKE SHOEBOXES
GEOMEMBRANES

Bespoke-sized geomembranes which come fully welded and pre-formed to custom sizes for attenuation "shoe-box" applications. Available in different materials to suit a large range of projects.

View our sustainable urban drainage calculators on **page 24**

GEOSYNTHETIC CLAY LINER

This geosynthetic clay liner (GCL) is used across a range of civil engineering and building applications.

It contains the clay mineral sodium bentonite - a natural sealant that swells on contact with water - and is sandwiched between two layers of geotextiles, a woven and a nonwoven, that are mechanically needle-punched together to provide shear strength.

Our top-performing, self-sealing and self-healing clay liners, comply with the latest industry codes of practice. The perfect solution for where containment is required to act as a hydraulic barrier to leachate from landfill sites or as a SuDS pond liner.

Containment

QUICK GLANCE DATA

GCL 4500	
Roll size(s)	5 x 40m
Weight	4,500g/m^2

GEOMEMBRANES

GT MEMBRANE 500

Our standard impermeable geomembranes are a popular choice for creating a watertight barrier.

Our GT Membrane 500 provides a cost-effective, reliable, and sustainable solution for a wide range of environmental and engineering applications.

KEY APPLICATIONS

- Small attenuation tanks
- Damp proof membrane (DPM)
- Emergency roofing
- Small garden ponds*
- Ground covers
- Lining compost bins
- Lining kennels and runs
- Lining raised garden beds
- Permeable paving

**Not suitable for joint taping.*

Containment

QUICK GLANCE DATA

GT Membrane 500	
Roll size(s)	4 x 12.5m
Thickness	0.5mm

KEY APPLICATIONS

- Ponds
- Lagoons
- Anaerobic digestion ponds
- Root barrier
- Gas barriers
- Hydrocarbon barriers
- Swales
- Attenuation tanks

GEOMEMBRANES

HIGH DENSITY POLYETHYLENE (HDPE)

The most specified liners in the construction industry, our robust, high-density polyethylene impermeable geomembranes (HDPE) are resistant to most chemicals and have a high stress factor resistance.

Available in a range of sizes, these tried and tested products are suitable lining SuDS ponds, lagoons and attenuation tanks.

Containment

QUICK GLANCE DATA

HDPE Membrane	
Roll size(s)	2.5 x 35m, 2.5 x 50m, 5.1 x 100m
Thickness	0.6mm, 1mm

GEOMEMBRANES

BESPOKE SHOEBOXES

Backed by years of experience and technical know-how, we can provide a bespoke geomembrane that is ideal for your liquid containment needs, for example in urban drainage systems.

Our barrier solutions provide excellent flexibility, improved elasticity and resistance to puncture and are engineered to be used in a wide range of civil engineering projects.

Choosing the right geomembrane for your project is vital to each system's long-term performance.

View more about our Attenuation Tank solutions on **page 24**

QUICK GLANCE DATA

Bespoke Geomembranes	
Available materials	Polypropylene, LLDPE

GEOMATS

Geomats are designed to extend or support existing grass or vegetation areas. These are used for extensions of vehicular access areas in aesthetically sensitive locations.

Our geomats aid seed germination and vegetation growth as roots networks interlace with the mesh, stabilising the upper layer and allowing a deeper network to develop.

Easy to install and highly durable, geomats excel around developments such as roads and motorways, railways, riverbanks and reservoir embankments.

Trinter, our erosion control matting is used as a lightweight solution to help establish healthy vegetation, which also protects against erosion on banks and slopes - or as vital protection for grassy areas being used by vehicles.

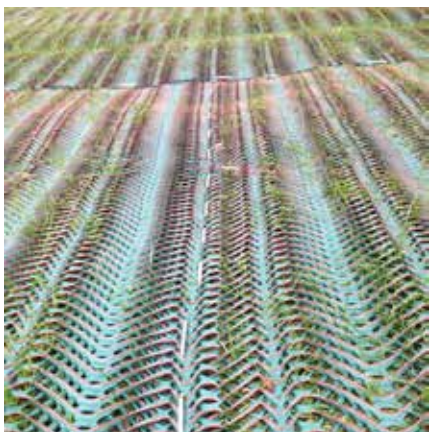
TurfMesh has been specifically designed to facilitate vehicular traffic on ground with established grass/turf without affecting normal gardening practices e.g. mowing, fertilising, rolling.

TURFMESH
GEOMATS

TurfMesh is a versatile grass support system, which can be installed on already established lawns and park areas. TurfMesh provides great versatility as a temporary system or left in position to become a permanent and integral reinforcement mesh.

TRINTER
GEOMATS

Trinter erosion control mesh is a volumetric geomat made from Polypropylene and High Density Polyethylene and is designed to control erosion. Protection is guaranteed from the moment of installation.



KEY APPLICATIONS

- Overflow car parks
- Pedestrian grassed areas
- Emergency vehicle access routes
- Golf course buggy access
- Caravan parks
- Footpaths and cycle tracks

GEOMATS

TURFMESH

TurfMesh is a versatile grass support system, which can be installed on already established lawns and park areas.

TurfMesh provides great versatility as a temporary system or left in position to become a permanent and integral reinforcement mesh. It is manufactured from a heavy duty thermoplastic which incorporates a blowing agent to help texture and increase grip. TurfMesh is UV stabilised, rot resistant and chemically inert, giving a long term reinforcement solution.

TurfMesh is laid directly onto the grass surface and secured in place by steel U-pins. Grass roots quickly grow through and establish within the mesh apertures, allowing areas to return to a natural appearance as the TurfMesh becomes part of the grass root matrix.

TurfMesh has been specifically designed to facilitate vehicular traffic on ground with established grass/turf without affecting normal gardening practices such as mowing, fertilising and rolling. TurfMesh is available in three grades;

1,000	**1,400**	**1,800**
for pedestrian, occasional car use and temporary access	for occasional use of light commercial vehicles	for frequent grass parking areas and occasional use of HGVs

Protection

Reinforcement

QUICK GLANCE DATA

TurfMesh	
Roll size(s)	2 x 20m
Weight	1,000, 1,400, 1,800g/m^2
Tensile strength	6.5, 9.5, 11.5kN/m

KEY APPLICATIONS

- Roads and motorways embankments
- Railway embankments
- River banks and channels
- Irrigation canals
- Reservoir embankments
- Grassed spillways
- Culvert inlets and outfalls

GEOMATS

TRINTER EROSION CONTROL MESH

Erosion control on banks and slopes is a common problem faced by many contractors and engineers. Erosion control matting is used as a lightweight solution to help establish healthy vegetation for permanent erosion protection on banks and slopes.

Our Trinter erosion control mesh is a volumetric geomat made from Polypropylene and High Density Polyethylene and is designed to control erosion. Protection is guaranteed from the moment of installation.

Trinter aids seed germination and facilitates the growth of vegetation by encouraging root networks to interlace with the mesh, thereby stabilising the upper layer and allowing a deeper network to develop over time. Easy to install, and highly resistant to degradation, Trinter can be used on all types of sloping ground.

Protection

Erosion control

QUICK GLANCE DATA

Trinter	
Dimensions	2 x 25m
Thickness	25mm
Weight	320g/m^2

GEOTEXTILES
FASTRACK

STOCK CODE	RANGE	CBR PUNCTURE RESISTANCE	TENSILE STRENGTH	WEIGHT	ROLL SIZE
GTSG/FAST/1X14A	FasTrack Woven	1500N	18kN/m	75g/m²	1 x 14m
GTSG/FAST/2.25X25A	FasTrack Woven	1500N	18kN/m	75g/m²	2.25 x 25m
GTSG/FAST/2.25X50A	FasTrack Woven	1500N	18kN/m	75g/m²	2.25 x 50m
GTSG/FAST/4.5X11A	FasTrack Woven	1500N	18kN/m	75g/m²	4.5 x 11m
GTSG/FASTRACK/A	FasTrack Woven	1500N	18kN/m	75g/m²	4.5 x 100m
GTSG/ORANGE4.5X100A	FasTrack Woven	1500N	18kN/m	75g/m²	4.5 x 100m
GTSG60/60	FasTrack Woven	5600N	60kN/m	258g/m²	5.25 x 100m
GTSG80/80	FasTrack Woven	9000N	80kN/m	356g/m²	5.25 x 100m

GEOTEXTILES
MULTITRACK

STOCK CODE	RANGE	CBR PUNCTURE RESISTANCE	TENSILE STRENGTH	WEIGHT	ROLL SIZE
GTNW/MULTI/700	MultiTrack Nonwoven	1000N	6kN/m	80g/m²	4.5 x 100m
GTNW/MULTITRACK	MultiTrack Nonwoven	1500N	8kN/m	100g/m²	4.5 x 100m
GTNW15	MultiTrack Nonwoven	2500N	15kN/m	180g/m²	5.25 x 100m
GTNW18	MultiTrack Nonwoven	3000N	18kN/m	215g/m²	5.25 x 100m
GTNW20	MultiTrack Nonwoven	3100N	20kN/m	235g/m²	5.25 x 100m
GTNW25	MultiTrack Nonwoven	3600N	25kN/m	300g/m²	5.25 x 100m
GTSNW17	MultiTrack Superior Nonwoven	1700N	10.3kN/m	150g/m²	4 x 100m
GTSNW40	MultiTrack Superior Nonwoven	4000N	22kN/m	300g/m²	5.25 x 100m
GTSNW40/2.5X25	MultiTrack Superior Nonwoven	4000N	22kN/m	300g/m²	2.5 x 25m
GTSNW40/2.62X100	MultiTrack Superior Nonwoven	4000N	22kN/m	300g/m²	2.62 x 100m
GTSNW50/5.25X50	MultiTrack Superior Nonwoven	5000N	30kN/m	400g/m²	5.25 x 50m
GTSNW80	MultiTrack Superior Nonwoven	8000N	45kN/m	650g/m²	5.25 x 50m
GTSNW120	MultiTrack Superior Nonwoven	11500N	120kN/m	1000g/m²	5.25 x 35m

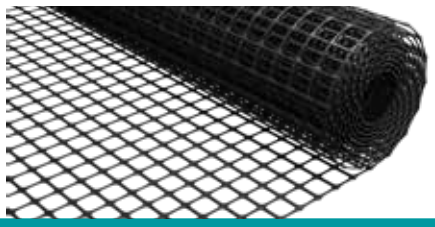
GEOTEXTILES
TERRATRACK LITE

STOCK CODE	RANGE	CBR PUNCTURE RESISTANCE	TENSILE STRENGTH	WEIGHT	ROLL SIZE
GTTERRALITE/1X14	TerraTrack Lite	1100N	6.5kN/m	100g/m²	1 x 14m
GTTERRALITE/2.25X25	TerraTrack Lite	1100N	6.5kN/m	100g/m²	2.25 x 25m
GTTERRALITE/2.25X50	TerraTrack Lite	1100N	6.5kN/m	100g/m²	2.25 x 50m

GEOTEXTILES
WEEDSHIELD

STOCK CODE	RANGE	ROLL SIZE
GTWEEDSHIELD/1X14	WeedShield	1 x 14m
GTWEEDSHIELD/2X25	WeedShield	2 x 25m
GTWEEDSHIELD/2X50	WeedShield	2 x 50m
GTWEEDSHIELDP/1X14	WeedShield Plus	1 x 14m
GTWEEDSHIELDP/2X25	WeedShield Plus	2 x 25m
GTFASHIELD/1X15	FasTrack Shield	1 x 15m
GTFASHIELD/2X25	FasTrack Shield	2 x 25m
GTFASHIELD/2X50	FasTrack Shield	2 x 50m
GTFASHIELD/4.5X11	FasTrack Shield	4.5 x 11m
GTFASHIELD/4.5X100	FasTrack Shield	4.5 x 100m

GEOGRIDS
E'GRID, SX GRID, SX COMPOSITE



STOCK CODE	RANGE	TENSILE STRENGTH	ROLL SIZE
GGEGRID/20	E'GRID	20kN/m	4 x 50m
GGEGRID/30	E'GRID	30kN/m	4 x 50m
GGEGRID/30L	E'GRID (Large aperture)	30kN/m	4 x 50m
GGEGRID/40	E'GRID	40kN/m	4 x 30m
GGSXGRID/20	SX Grid	20kN/m	4 x 50m
GGSXGRID/30	SX Grid	30kN/m	4 x 50m
GGC/COMBSX30/5.2X50	SX Composite	30kN/m	5.2 x 50m

GEOPAVING
ECODECK

STOCK CODE	DESCRIPTION	PANEL SIZE
GSECODECK/40	Ecodeck 40mm Deep Gravel And Grass Paver	500 x 500mm
GSECODECK/50	Ecodeck 50mm Deep Gravel And Grass Paver	500 x 500mm
GSECO40/CAP	Ecodeck 40mm Bay Marker	N/A
GSECO50/CAP	Ecodeck 50mm Bay Marker	N/A

GEOPAVING
CELLTRACK

STOCK CODE	DESCRIPTION	PANEL SIZE
GSCELLTRACK/LP38BB	CellTrack Large Panel Paving System Black 38mm	1200 x 800mm
GSCELLTRACK/LP50BB	CellTrack Large Panel Paving System Black 50mm	1200 x 800mm
GSCELLTRACK/HD50	CellTrack Heavy Duty Paving System 50mm	600 x 400mm
GSCELL/CAP/LP38	CellTrack Large Panel Bay Marker 38mm	N/A
GSCELL/CAP/LP50	CellTrack Large Panel Bay Marker 50mm	N/A
GSCELLHD/CAP/50	CellTrack HD Bay Marker 50mm	N/A

GEOCELLS
PROTECTAWEB

STOCK CODE	DESCRIPTION	PANEL SIZE
GTPROTECTAWEB/75/E	ProtectaWeb 75mm HDPE Tree Root Protection System	2.71 x 7.38m
GTPROTECTAWEB/100/E	ProtectaWeb 100mm HDPE Tree Root Protection System	2.71 x 7.38m
GTPROTECTAWEB/150/E	ProtectaWeb 150mm HDPE Tree Root Protection System	2.71 x 7.38m
GTPROTECTAWEB/200/E	ProtectaWeb 200mm HDPE Tree Root Protection System	2.71 x 7.38m
GTPROTECTAWEB/STR	ProtectaWeb Stapler	N/A
GTPROTECTAWEB/STS	ProtectaWeb Staples	N/A
GTPROTAWEB/PINS500	ProtectaWeb Pins 500mm	500 x 12mm
GTPROTAWEB/PINS700	ProtectaWeb Pins 700mm	700 x 12mm

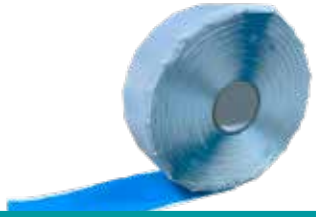
GEOMEMBRANES

GEOSYNTHETIC CLAY LINERS, GEOMEMBRANES

STOCK CODE	DESCRIPTION	ROLL SIZE
GSMGCL4500	GCL 4500 Clay Liner	5 x 40m
GSMBENTONITE/25	GCL 4500 Clay Liner Granules - 25kg	N/A
GTMEMBRANE/500	0.5mm Impermeable Geomembrane	4 x 12.5m
GSM/HDPE0.6/2.5X50	0.6mm HDPE Impermeable Geomembrane	2.5 x 50m
GSM/HDPE0.6/5.1X100	0.6mm HDPE Impermeable Geomembrane	5.1 x 100m
GT/HD1.0/2.5X35	1mm HDPE Impermeable Geomembrane	2.5 x 35m
GS/HD1.0/5.10X100	1mm HDPE Impermeable Geomembrane	5.1 x 100m

ACCESSORIES

FOR GEOMEMBRANES

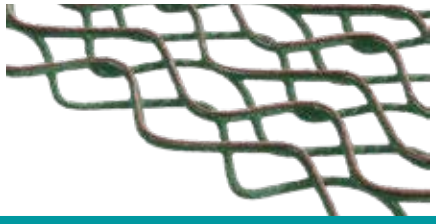


STOCK CODE	DESCRIPTION	SIZE
GTMEM/TAPE/SS75X50	Single-sided jointing tape for impermeable membranes	75mm x 50m
GTMEM/TAPE/DS50X10	Double-sided butyl jointing tape for impermeable membranes	50mm x 10m

GEOMATS
TRINTER

STOCK CODE	DESCRIPTION	ROLL SIZE
GSE/TRINTER/PP	Trinter Erosion Control Mesh	2 x 25m

GEOMATS
TURFMESH



STOCK CODE	DESCRIPTION	ROLL SIZE
GGTURFMESH/1000	TurfMesh 1000 Reinforcement Mat	2 x 20m
GGTURFMESH/1400	TurfMesh 1400 Reinforcement Mat	2 x 20m
GGTURFMESH/1800	TurfMesh 1800 Reinforcement Mat	2 x 20m
GGTURFMESHPINS/25	TurfMesh Pins x25	N/A

GEOWORKS

All information in this catalogue is subject to change without notice. While efforts have been made to make this catalogue helpful and accurate, Geoworks does not warrant the accuracy of information obtained from this catalogue. Where errors or omission are brought to the attention of Geoworks, amendments will be made as quickly as possible.

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