

GEOWORKS GEOSYNTHETICS BY WREKIN

The **new name**
for geosynthetics from

WREKIN

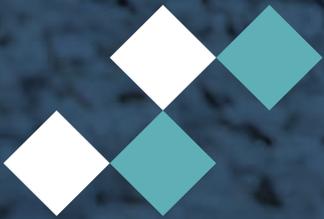
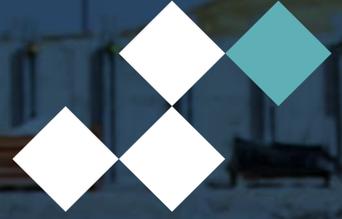
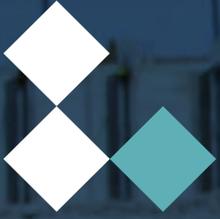


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GEOSYNTHETICS

GEOTEXTILES ◆ GEOGRIDS ◆ GEOMEMBRANES
GEOCELLS & GEOCELLULAR PAVING ◆ GEOMATS

CATALOGUE ◆ 2024



INTRODUCING GEOWORKS

A new chapter in geosynthetic solutions

As the civil engineering landscape evolves, so does the necessity for innovative, reliable solutions that meet the ever-changing demands of our environment and infrastructure projects. Recognising this, Wrekin Products, a name synonymous with excellence in the civil engineering sector, is proud to unveil Geoworks, a new identity and standalone division dedicated to our comprehensive geosynthetics offering.

Geoworks represents the culmination of Wrekin Products' extensive expertise in geosynthetics, including an array of geotextiles, geogrids, geomembranes, geomats, geocells and geocellular paving. This evolution marks a significant leap forward in our commitment to the industry and enhances our ability to serve our clients with a more focused approach. Geoworks will redefine the standards of geosynthetic solutions, offering a product catalogue that remains unmatched in its breadth and depth.

Establishing Geoworks as a distinct entity within the Wrekin family is a strategic move designed to make our vast industry knowledge more accessible than ever. It directly responds to the increasing complexity of civil engineering challenges and the necessity for specialised, high-quality geosynthetic products and services.

Since 1995, we have been at the forefront of developing geosynthetic solutions, contributing to significant projects such as Hinkley Point C to Scottish wind farms and the construction of the HS2 line. Looking ahead, we aim to expand our stock holding and explore new markets, reinforcing our commitment to innovation and excellence.

As we introduce Geoworks to you through this catalogue, we invite you to explore the possibilities that our geosynthetic solutions can offer. Our products have been instrumental in countless critical infrastructure projects, from FasTrack and MultiTrack geotextiles to E'GRID geogrids. At Geoworks, we do more than sell products; we forge partnerships and provide solutions tailored to each project's unique challenges.

Welcome to Geoworks – where innovation, quality, and partnership in geosynthetics begin.

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.



Responsive

We see the opportunities before others do and take the initiative.



Straightforward

We ensure we are uncomplicated, easy to deal with and understand.



Curious

We are always looking for new ways of thinking and exploring new ideas.



Experts

We figure out the best way to deliver the most productive solutions.



Collaborators

We connect and create with others, treating them fairly and respectfully.



Trusted

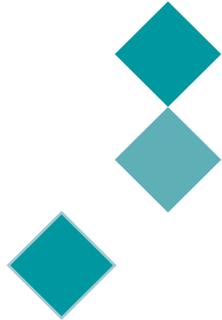
We ensure reliability, take responsibility, and strive to do the right thing.



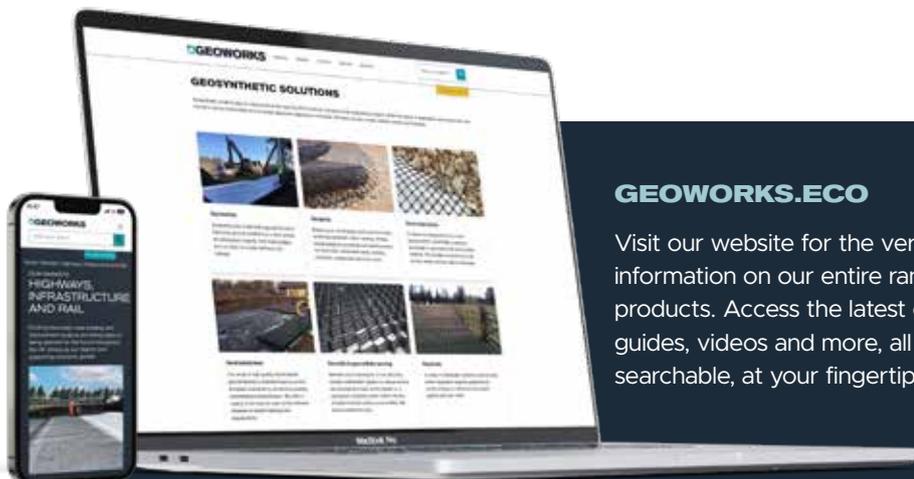
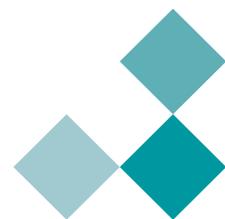
Accountable

We learn and improve upon our processes to deliver results and value.

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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](https://www.geoworks.eco)

BETTER TOGETHER



CIVITEC GROUP

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

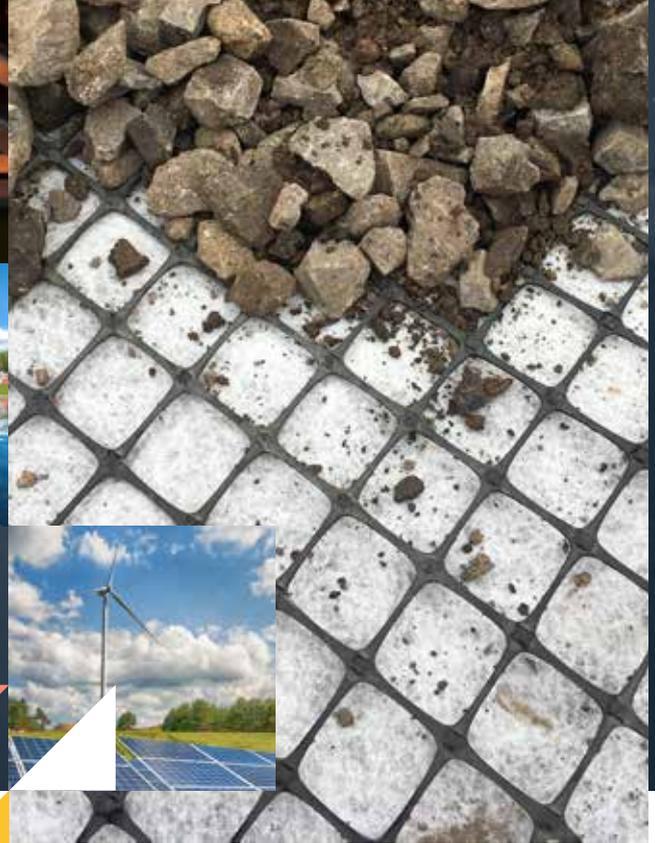
That's why we've built Civitec Group, which brings together leading brands of civil engineering solutions providers with a shared ambition.

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.





Civitec Group's strength lies in our diversity.

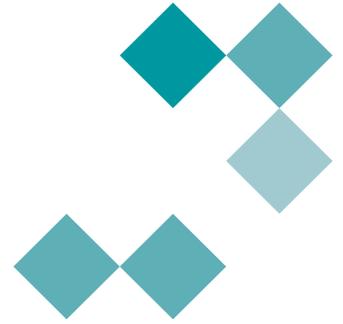
Each member brand brings a unique perspective and specialised skills, enhancing our ability to solve complex problems and deliver comprehensive solutions. Our portfolio includes projects in transportation, water management, environmental engineering, and urban development. From supporting the design 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, Drainage, 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.

Applications: Drainage and SUD's

PRODUCTS

- ◆ FasTrack
- ◆ MultiTrack
- ◆ SX Composite
- ◆ WeedShield



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.

Applications: Compounds, haul roads, horse ménage, piling and working platforms

PRODUCTS

- ◆ FasTrack
- ◆ MultiTrack
- ◆ SX Composite
- ◆ WeedShield
- ◆ FasTrack Shield



REINFORCEMENT

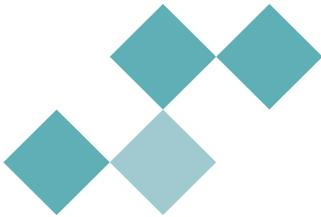
Resists stresses, reduces deformations, and can support weaker subgrade.

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

Applications: Haul roads, compounds, piling & working platforms, embankments and slopes

PRODUCTS

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



DRAINAGE

The use of a geosynthetic to collect and transport fluids.

A reduction in the thickness of drainage layers can save money on aggregate stones whilst giving a more consistent and more protected solution.

Applications: French drains, open ditches

PRODUCTS

- ◆ FasTrack
- ◆ MultiTrack
- ◆ Geomembranes



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.

Applications: Embankments, car parks, tree root protection and attenuation tanks

PRODUCTS

- ◆ MultiTrack SNW
- ◆ ProtectaWeb
- ◆ Trinter
- ◆ CellTrack
- ◆ TurfMesh



CONTAINMENT

Prevents the migration of liquids through the soil.

Offers solutions for either containment or contaminated land. These products provide a barrier that offers pollution control in varied applications.

Applications: SUDs, ponds, lakes, lagoons, landfill, irrigation channels and water transfer lines

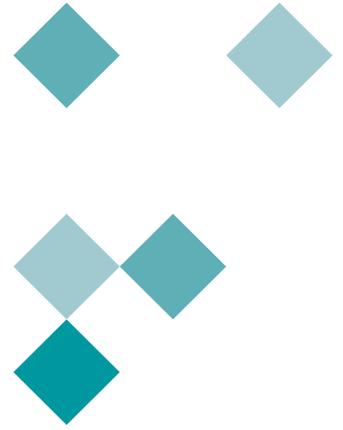
PRODUCTS

- ◆ Geosynthetic Clay Liner
- ◆ Geomembranes

MARKETS

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

Whatever market you operate in, take a look at how 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.

COMMERCIAL AND WAREHOUSING

Geosynthetics can significantly reduce construction schedules which is often key in commercial and warehousing applications. They also enable construction on previously unsuitable sites while reducing the overall environmental footprint of a project.



RAIL

Rail construction projects require geosynthetic solutions for wide ranging rail applications. Typically, geotextiles and geogrids are specified, however many of our other products can also play a key role.

LANDSCAPING

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

AND MANY MORE...

We are always on hand and available to assist with specifications, site visits, technical support and design work on a wide range of projects. We are always available and ready to help.



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



WREKIN Home About Us Contact Us

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 engaged at the tender stage, the impact on time and money savings can also assist contractors 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.

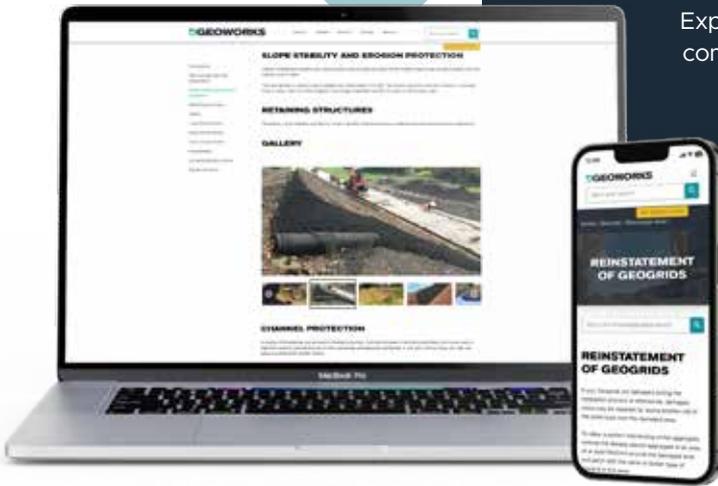


“ Geoworks provided Jessup's with a technical solution which **saved time and cost**, enabling us to continue with our works unhindered, ensuring we met key milestones of the construction phase.

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.



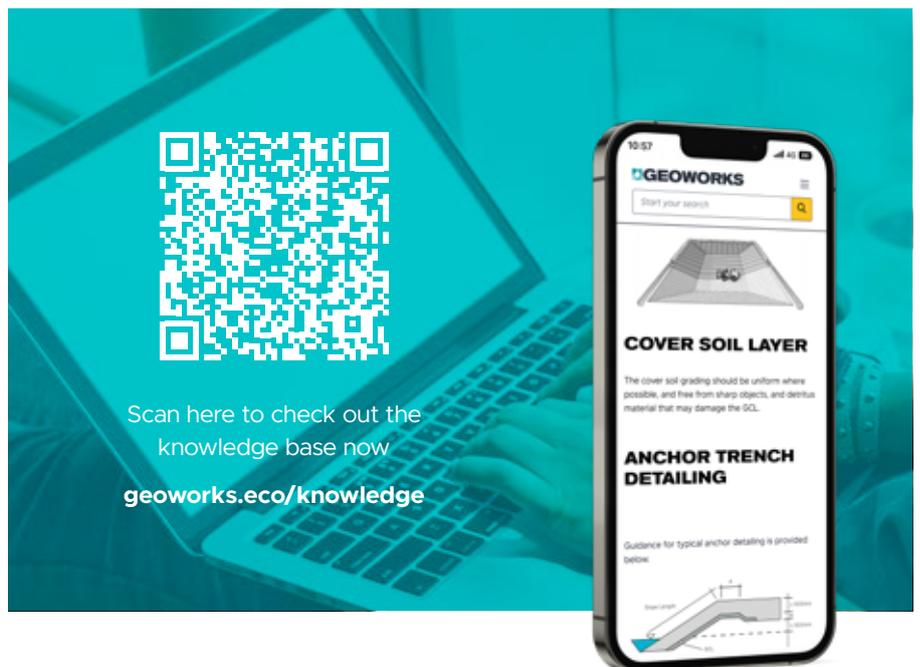
Product Guidance

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.



Standards and Conformity

Our standards and conformity section provides you with important information related to regulatory compliance and safety guidelines. This section is ideal for anyone who needs to stay up-to-date with the latest regulations and guidelines in the industry.





WHERE CAN WE HELP WITH YOUR PROJECT?

1

ROADS AND PAVEMENTS

Our geosynthetics reinforce soil, reduce material usage, and ensure durability for roads and pavements, effectively lowering costs and environmental impact.

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2

COMPOUNDS AND HAUL ROADS

We provide value engineered solutions to reduce costs and construction time on the creation of initial site compounds and haul roads.

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

SUSTAINABLE URBAN DRAINAGE

Choosing a complete system from a single supplier helps to ensure an effective, sustainable and compatible drainage system across a whole development.

Page 24



LANDSCAPING

When planning for a landscaping project, Weed suppression is a significant consideration. Geotextiles act as a barrier to prevent weed growth, ensuring the beauty of the landscape is preserved with minimal maintenance.

Page 26



TREE ROOT PROTECTION

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

Page 28



CAR PARKING

Our solutions can offer robust ground stabilisation and load distribution, perfect for constructing temporary car parks that protect underlying surfaces and support heavy vehicle traffic without causing environmental damage.

Page 30



EROSION CONTROL

We offer a robust solution for slope reinforcement, effectively preventing erosion by stabilising the soil and promoting vegetation growth, ensuring long-term durability.

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SOLUTIONS FOR **ROADS AND PAVEMENTS**

Transform your road and pavement projects into enduring masterpieces with the power of our geogrids, geocells and geotextiles.



Our ProtectaWeb geocells provide an innovative confinement system that stabilises and strengthens soils, making them capable of supporting heavy loads and increasing the lifespan of roadways. By creating a cellular structure, they confine fill material, which leads to improved load distribution and reduced likelihood of road deformations.

Meanwhile, our MultiTrack nonwoven geotextiles serve multiple functions to enhance road construction. Acting as a separation layer, they prevent the intermixing of subgrade soil and aggregate, ensuring the structural integrity of the pavement. Furthermore, they provide critical filtration, allowing water to drain away while retaining soil particles, thus maintaining sub-surface stability and mitigating the risk of water damage.

Together, these products not only accelerate the construction process but also significantly reduce maintenance costs, making them an indispensable choice for modern, durable, and sustainable road infrastructure.



Proven Reliability

Our geocells have a reputation for dependable support, ensuring your road remains stable and even.



Efficient Drainage

Geotextiles effectively manage water runoff, reducing the risk of water-related damage to your groundwork.



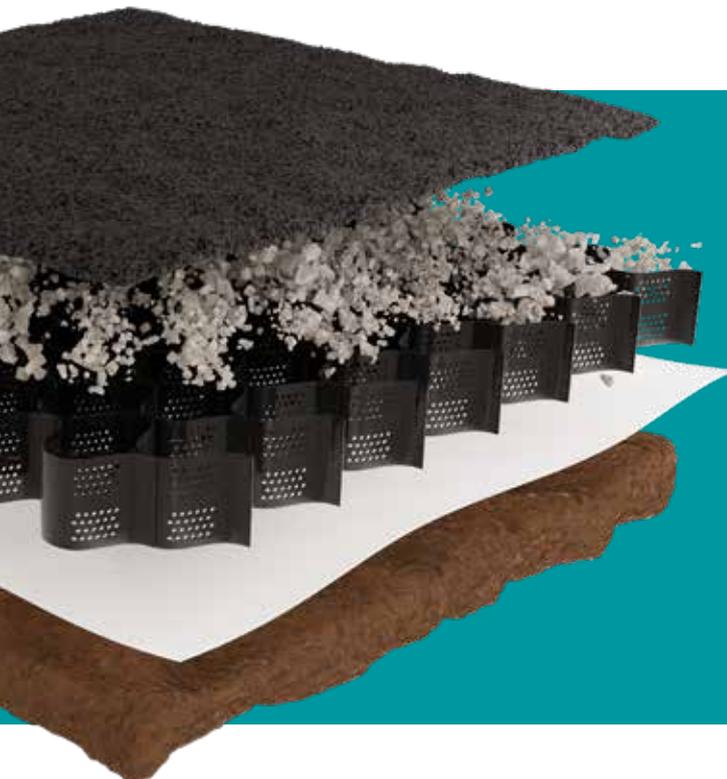
Ease of Installation

Save time and effort with geocells and geotextiles that are designed for straightforward and hassle-free installation.



Long-Term Performance

Choose materials that are engineered for long-term durability, reducing maintenance and replacement costs over time.



PROTECTAWEB GEOCELLS

Page 52

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

MULTITRACK GEOTEXTILES

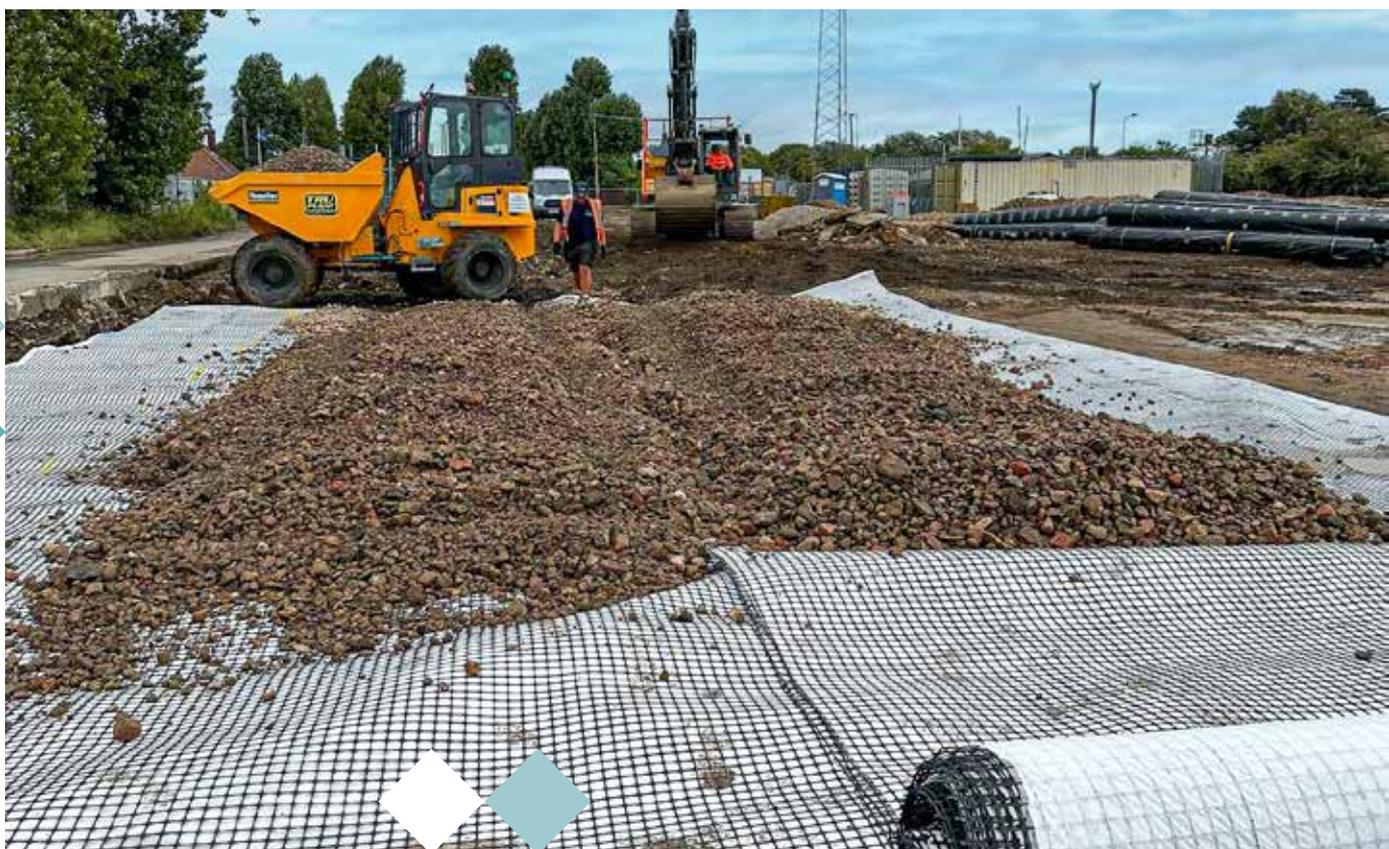
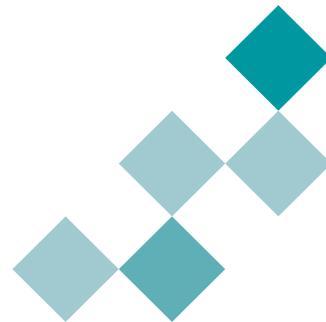
Page 38

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

SOLUTIONS FOR **COMPOUNDS & HAUL ROADS**

When it comes to constructing robust and enduring compounds and haul roads, your choice of materials matters.

Discover the power of our geogrids and geocomposites - the ultimate solutions for enhancing the strength, stability, and longevity of your haulage routes.



Haul roads and compounds require a robust and stabilised surface designed for heavy-duty vehicle traffic, such as trucks and construction equipment.

Often, geogrids and/or composite geogrids are specified for use in these applications.

Geogrids and geocomposites are preferred materials for constructing haul roads and compounds due to their exceptional load-bearing capacity and reinforcement capabilities.

These materials enhance the overall strength and stability of the road surface, ensuring it can withstand the heavy loads and constant traffic associated with haulage operations.



Heavy-Duty Performance

Our products are engineered to handle the most demanding traffic loads, ensuring your haul roads and compounds are fit for purpose.



Exceptional Reinforcement

Experience exceptional reinforcement capabilities, reducing the risk of rutting, erosion, and costly maintenance.



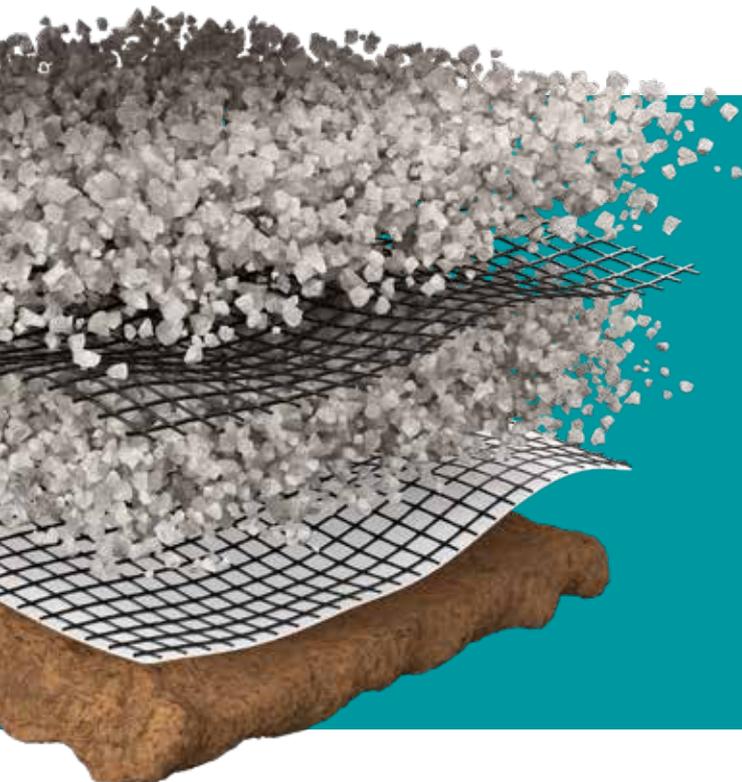
Ease of Installation

Streamline your project with materials that are easy to handle and install, saving you time and labour costs.



Efficient Drainage

Maintain effective drainage with geocomposites, which combine the strength of geogrids with the filtration and separation functions of geotextiles.



E'GRID GEOGRIDS

Page 44

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

SX COMPOSITE 3030 GEOCOMPOSITE

Page 48

Achieve time savings when acquiring materials and overall quicker installations, thanks to SX Composite, a geogrid that performs as both a geogrid and a geotextile solution in one easy to install solution.

SOLUTIONS FOR **WORKING PLATFORMS**



Piling platforms are essential for carrying heavy tracked plant, such as piling rigs and cranes. These vital, temporary measures must deliver safety while being as time and cost effective as possible.



Geogrids are an under-utilised solution, which can reduce the thickness of a working platform, typically by 50%, resulting in substantially reduced construction cost and time.

Along with significant cost reductions, geogrids improve site health and safety, accelerate construction timescales and reduce the project's overall environmental impact.

This is because when granular particles are compacted over these grids, they partially penetrate and project through the apertures to create a stiff and positive interlock. The load dispersal effect from the interlocking mechanism increases shearing resistance within the aggregates, improving compaction and allowing the granular thickness to be decreased – ultimately reducing construction time and cost.



Optimal Support

Our geogrids and geocomposites are engineered to provide exceptional load-bearing capacity, making them ideal for working platforms with heavy equipment and machinery.



Durability

Strengthen your working platform against wear and tear, reducing maintenance costs and extending the life of your surfaces.



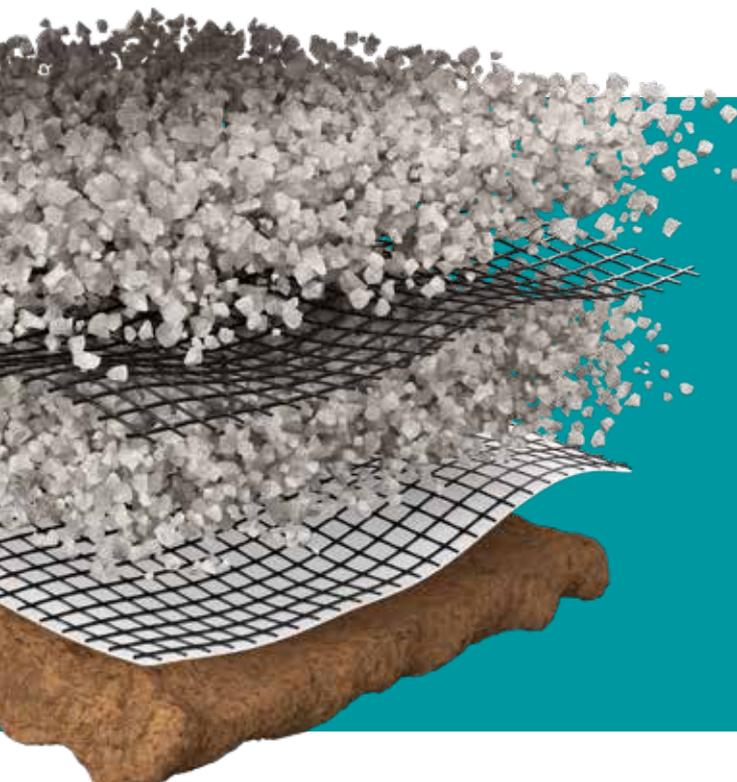
Easy Installation

Save time and labour with materials that are user-friendly and straightforward to install.



Effective Drainage

Ensure efficient water drainage in compound areas, promoting stability and preventing erosion.



E'GRID GEOGRIDS

Page 44

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

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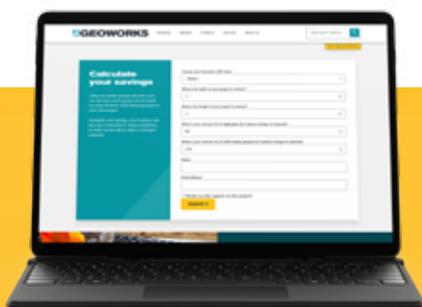
Achieve time savings when acquiring materials and overall quicker installations, thanks to SX Composite, a geogrid that performs as both a geogrid and a geotextile solution in one easy to install solution.

SOLUTIONS FOR **SUSTAINABLE URBAN DRAINAGE**



Looking for reliable materials to streamline your SUDS and attenuation tank projects?

Look no further than our range of geotextiles and geomembranes.



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 SHOE BOX 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.

Central to the effectiveness of attenuation tanks are the geomembranes and geotextiles that envelop them.

Our geomembranes form a watertight barrier that lines the exterior of the tank. This impermeability prevents groundwater contamination and ensures that the stored rainwater remains clean and ready for controlled release. We offer prefabricated, flexible, welded box liners and lids, manufactured in a variety of materials to suit your project and built to any size. Goods can be delivered directly to your site for convenience. The linings can also be supplied with 'Top Hats' for sealing to pipes and vents.

Geotextiles, like our MultiTrack range of superior nonwoven geotextile, are positioned both beneath and above the tanks. The geotextile layer beneath the tank acts as a cushion, protecting the geomembrane from punctures or abrasions that could occur during installation or from underlying debris. It also promotes drainage and minimizes the risk of soil erosion.



Built to Last

Our geotextiles and geomembranes are engineered for durability and designed to withstand challenging conditions.



Precision Counts

Achieve accuracy in your projects with materials that meet the exacting standards of SUDS and attenuation tank applications.



Effortless Installation

Save time and hassle with user-friendly materials that simplify the installation process.



Cost-Efficient

Reduce waste and cut project expenses with geosynthetics that minimise resource consumption.



MULTITRACK GEOTEXTILE

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MultiTrack superior nonwoven geotextiles have been developed to offer optimum performance per unit weight. Their resulting mechanical robustness and excellent hydraulic properties make them the ideal choice for SUDs applications.

BESPOKE GEOMEMBRANES

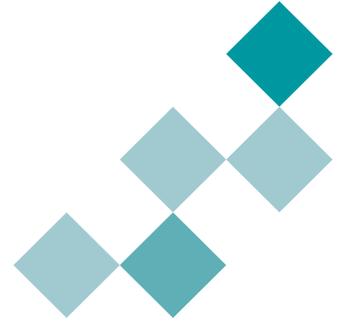
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Our range of high quality impermeable geomembranes are manufactured to the highest standards. We offer a variety of roll sizes for each of the different materials to match individual site requirements. We can also offer prefabricated, flexible, welded box liners and lids; often referred to as Shoe Box Liners manufactured in a variety of materials to suit your project and built to any size.

SOLUTIONS FOR **LANDSCAPING**

In both grand and modest landscaping projects, geosynthetics, particularly geotextiles like WeedShield and MultiTrack, offer transformative solutions.

Our geosynthetics excel in ground reinforcement, erosion control, and drainage, crucial for maintaining the integrity and aesthetics of landscaped areas.



When planning for a landscaping project, Weed suppression is a significant consideration. Geotextiles act as a barrier to prevent weed growth, ensuring the beauty of the landscape is preserved with minimal maintenance.

CellTrack can be instrumental in creating stable, load-bearing surfaces for paths and parking areas, protecting the soil and root systems beneath. These geosynthetic solutions not only enhance the functionality and appearance of landscaping projects but also contribute to environmental protection, making them an indispensable tool for landscapers and civil engineers alike.

ProtectaWeb can play a pivotal role in landscaping projects by stabilising soil and reducing erosion. It's perfect for sculpting landscaped areas, from gentle slopes to sharp embankments, ensuring the soil stays in place and vegetation thrives. The system supports load distribution on softer grounds, making it ideal for creating walkways, parking spaces, and green spaces without compromising the underlying soil structure, thus preserving the natural beauty and integrity of the landscape.



Environmental Sustainability

Our geosynthetics enable construction on otherwise unsuitable sites, reducing the environmental impact and facilitating projects in remote locations.



Cost Efficiency

By reducing the cross-sectional area needed for build-ups, our geosynthetics require less material for equivalent or enhanced strength.



Durability and Safety

Enhance project longevity and safety, by reducing settlement and ensuring stable, secure environments with minimal maintenance.



Soil and Vegetation Protection

Protect soil and root systems from erosion and compaction with our geosynthetics. This ensures that natural elements are preserved and can thrive.



Page 40

WEEDSHIELD GEOTEXTILES

Crafted for functionality and quality, our weed suppressant range comes in three distinct variants designed to meet various gardening and landscaping needs.



Page 52

PROTECTAWEB GEOCELLS

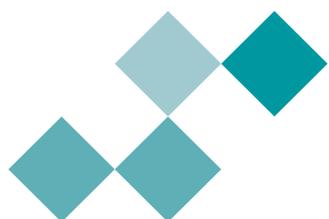
ProtectaWeb performs two main functions, slope stabilisation and erosion control and the protection of tree roots when used for car parks or access roads near to existing trees.



Page 54

CELLTRACK GEOCELLULAR PAVING

CellTrack is designed for quick and easy installation, panels simply interlock together. A permanent panelled system, CellTrack is virtually invisible from the surface once in-filled.



SOLUTIONS FOR **TREE ROOT PROTECTION**

Tree root protection is vital as it safeguards the health and stability of trees during construction or landscaping projects throughout their entire lives.

It prevents soil compaction, damage, and root disruption, allowing trees to continue providing ecological and aesthetic benefits, including oxygen production, shade, and enhancing the overall environment.

Geocells and geotextiles offer a holistic solution that not only ensures the durability and stability of the path, road or car park, but also safeguards the health and vitality of nearby trees, particularly their intricate root systems.

Geocells act as a protective barrier around tree roots. By supporting the weight of foot traffic or vehicles, geocells prevent the compaction of soil around tree roots, which can impede the flow of oxygen and water essential for their survival. This preservation of the root zone's integrity allows trees to thrive alongside the path.

Placed beneath the geocell layer, geotextiles prevent soil mixing and provide a protective buffer between the path's construction and the tree's root system. They facilitate proper drainage and aeration, essential for maintaining a healthy root environment. MultiTrack SNW40 nonwoven geotextile has oil retention capabilities further enhancing the protection of tree roots.



Optimal Tree Health

Our geocells and geotextiles are designed to protect tree roots by minimizing soil compaction and promoting healthy root growth.



Root Preservation

Our geocells create a protective barrier around tree roots, preventing damage from construction activities or pedestrian traffic.



Long-Term Sustainability

Our geosynthetic solutions allow trees to coexist harmoniously with human infrastructure, contributing to long-term environmental sustainability in your projects.



Expert Support

Our team of experts is ready to provide guidance and support throughout your projects, ensuring a smooth process.



**PROTECTAWEB
GEOCELLS**

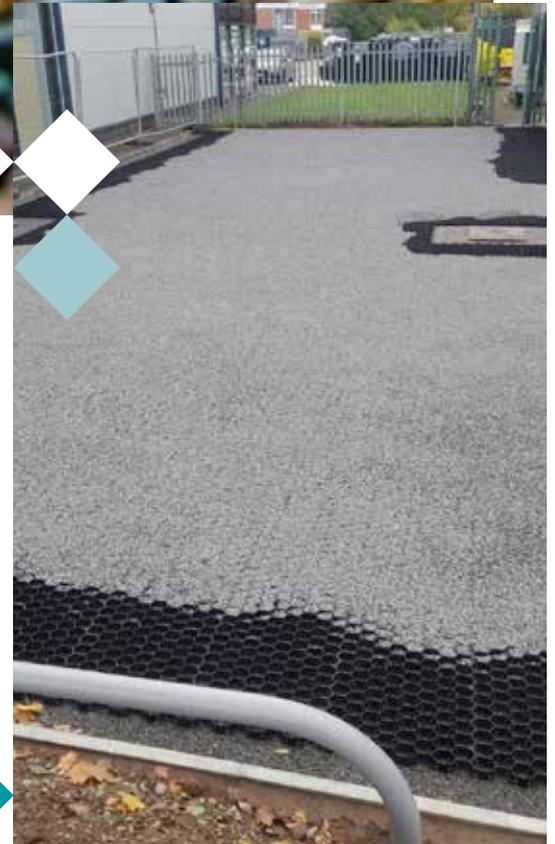
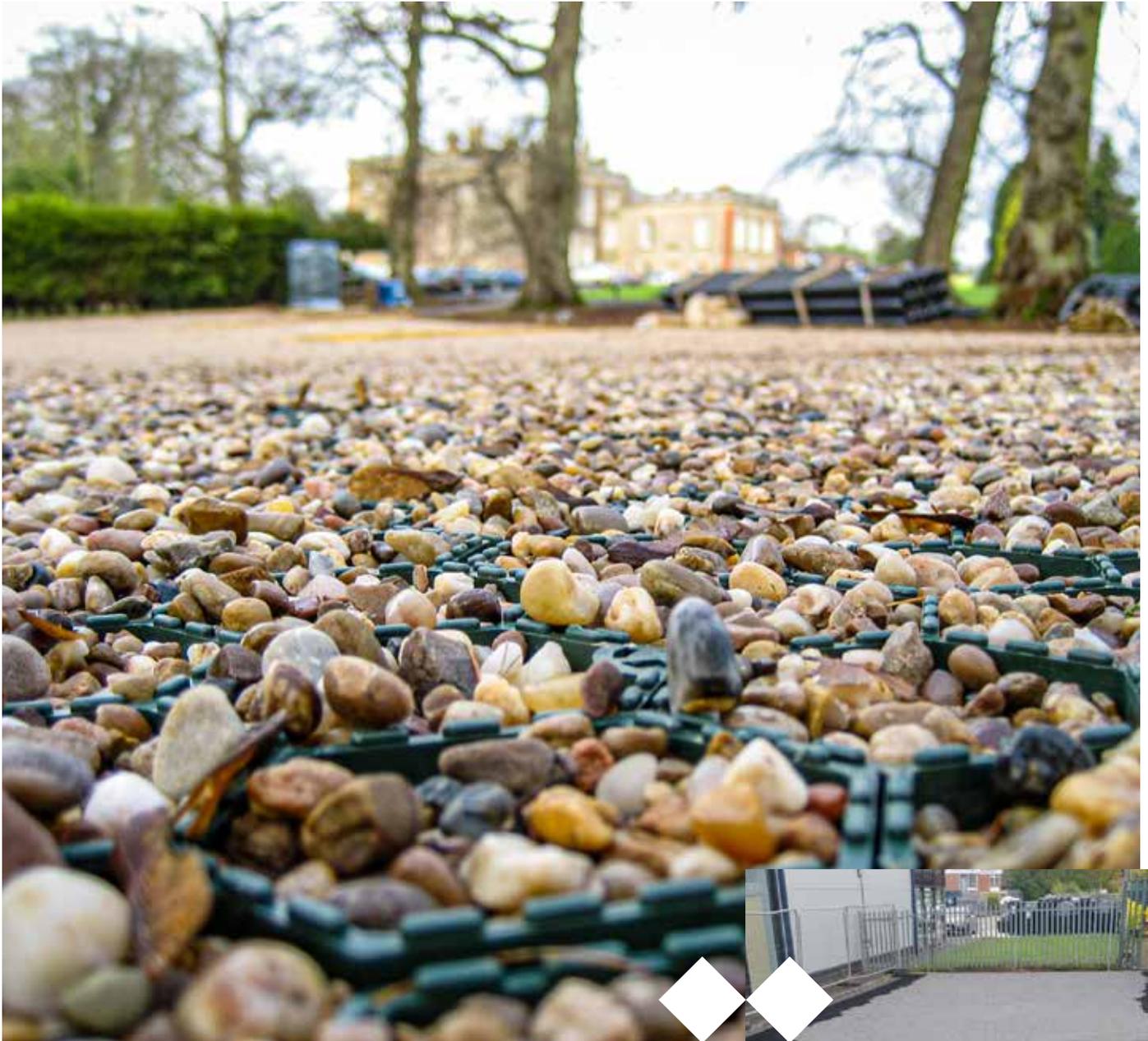
Page 52

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

**MULTITRACK
GEOTEXTILES**

Page 38

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



SOLUTIONS FOR **CAR PARKING**

Gravel car parks offer cost-efficiency, effective drainage, and adaptability.

They minimize runoff, reduce maintenance, and allow for easy expansion or adjustments, making them a versatile and economical choice.



Gravel car parks offer a stable, well-supported, and efficient surface suitable for a variety of vehicles, including cars, vans, trucks, coaches, and lorries.

Gravel is frequently chosen as the permeable paving material for car parks due to its open structure, which facilitates effective drainage by allowing rainwater to seep through to the underlying sub-base.

To establish a durable gravel surface that retains its integrity, a combination of geocells and geotextiles are commonly employed. CellTrack possesses a cellular structure that securely holds the gravel in place by forming an interlocking pattern, minimizing the potential displacement of gravel by vehicle tires.



Tree Root Protection

When infilled with gravel, ProtectaWeb serves as a protective barrier around tree lines, ensuring their roots remain safe while allowing drainage and aeration.



Stable Driving Surface

CellTrack, when infilled with gravel, provides a solid and stable surface for cars to drive on. Say goodbye to potholes and uneven terrain in your gravel car parks.



Complete System

We offer a full solution for car parks. Which often require a geotextile layer between geocells to allow for separation and filtration.



Easy to Install, Long Lasting

Streamline your project with hassle-free and fast installation. Geocells are intended to be a permanent solution for car parks and access roads.



CELLTRACK
GEOCELLULAR PAVING

Page 54

CellTrack is designed for quick and easy installation, panels simply interlock together. A permanent panelled system, CellTrack is virtually invisible from the surface once in-filled.

PROTECTAWEB
GEOCELLS

Page 52

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

MULTITRACK
GEOTEXTILES

Page 38

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



SOLUTIONS FOR **EROSION CONTROL**

Slopes and structures on projects commonly follow a shallow angle and are conventionally constructed from reinforced concrete.

However, our aesthetically pleasing innovations ensure a reinforced steepened slope can increase the usable area on site, thereby increasing the value of the land available.



ProtectaWeb geocells and Trinter geomats offer innovative solutions for erosion control in both large-scale and small projects.

ProtectaWeb geocells are ideal for stabilising slopes and embankments, their three-dimensional matrix confining soil and preventing erosion by water or wind. Filled with aggregate or vegetation, they promote natural vegetation growth, further securing the soil.

Trinter geomats, designed to protect against surface erosion, encourage the establishment of vegetation on vulnerable slopes by providing a protective layer that supports soil and seed retention.

Alongside these, FasTrack and MultiTrack geotextiles can be used beneath the surface to separate, filter, and reinforce soil, preventing the washout of fine particles and ensuring stability. These geosynthetic solutions are essential for maintaining the integrity of landscapes, protecting against erosion, and supporting environmental sustainability in civil engineering and infrastructure works.



Environmental Sustainability

Our products facilitate construction on challenging sites, enabling work in sensitive or previously inaccessible areas, thereby minimising ecological footprints.



Material Efficiency

By reducing the need for traditional construction materials through enhanced strength and stability, our geosynthetics offer a cost-effective solution, requiring less material for equivalent strength.



Longevity

The strength and durability of our geosynthetics ensure long-lasting erosion control measures, providing stabilisation and reinforcement.



Soil and Vegetation Protection

Our geosynthetics, including three-dimensional cells, play a crucial role in protecting soil and root systems from erosion, supporting the establishment of vegetation, crucial for natural erosion control and the maintenance of ecological balance.



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PROTECTAWEB GEOCELLS

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

TRINTER GEOMATS

Trinter aids seed germination and facilitates the growth of vegetation by encouraging root networks to interlace with the mesh, thereby allowing a deeper network to develop over time.

MULTITRACK GEOTEXTILES

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

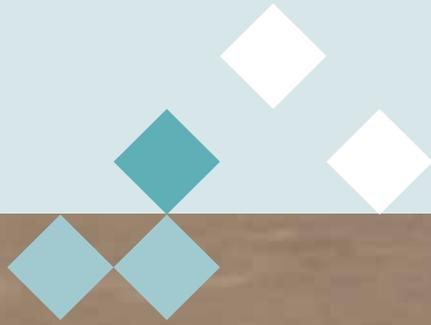
GEOTEXTILES

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.





PAGE 36

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.



PAGE 38

MULTITRACK

NONWOVEN GEOTEXTILES

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

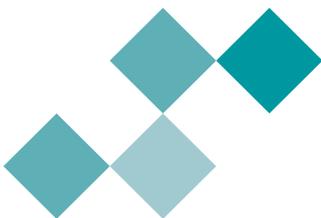


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WEED SUPPRESSION GEOTEXTILES

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

Coming soon





WOVEN GEOTEXTILES **FASTRACK**

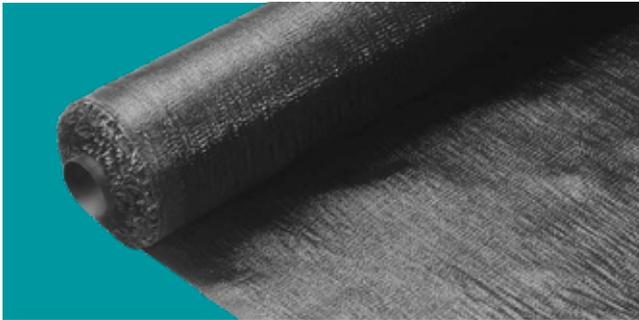


Our market-leading woven geotextiles give outstanding performance. Their high load capacity and tensile strength, coupled with a relatively low elongation, provides a high material resistance to breaking under tension.

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, 5.25 x 100m <i>Mini packs also available</i>
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 66** for our full range of roll sizes, including mini packs, folded packs and part codes.

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



NONWOVEN GEOTEXTILES **MULTITRACK**



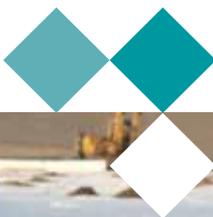
MultiTrack is a thermally bonded or needle-punched nonwoven geotextile that offers many benefits where separation, filtration and drainage functions are required.

It delivers excellent durability and drainage function in addition to its very high water flow capability, but reduced strength in comparison to a woven geotextile.

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



Drainage

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 <i>Mini rolls also available</i>
CBR puncture resistance	1,000N to 3,600N
Weight	80g/m ² to 300g/m ²



Separation



Filtration



Protection



Drainage

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 x 100m, 5.25 x 100m <i>Mini rolls also available</i>
CBR puncture resistance	1,400N to 11,500N
Weight	120g/m ² to 1,000g/m ²

FIND OUT MORE

See **page 67** for our full range of roll sizes, including mini packs and part codes.

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



GEOTEXTILES WEED SUPPRESSION

Product range coming soon

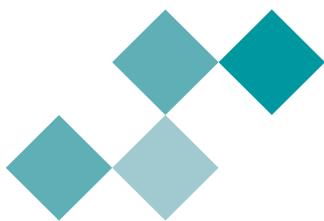
Introducing WeedShield, WeedShield Plus and FasTrack Shield, the comprehensive range of weed suppression fabrics.

Crafted for functionality and quality, our collection comes in three distinct variants designed to meet various gardening needs.

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 enhanced durability and longer-lasting weed suppression.

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.





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 enhanced 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



Filtration

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

	WeedShield	WeedShield Plus	FasTrack Shield
Decking	X	X	
Flower Beds	X	X	
Planting	X	X	
Landscaping		X	
Patios			X
Pathways			X
Groundworks			X

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.

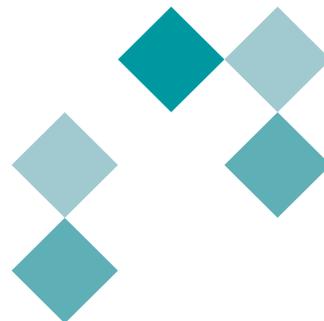


SX COMPOSITE GEOCOMPOSITE

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



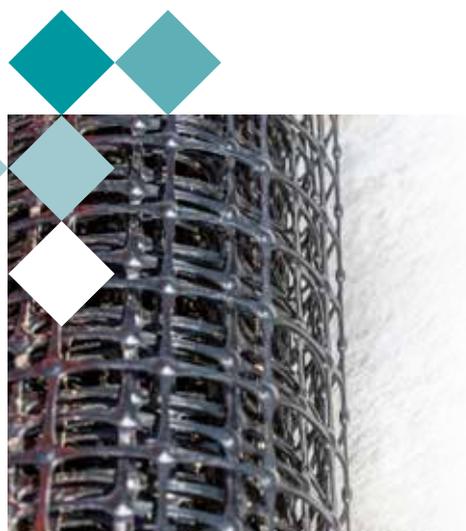


BIAXIAL GEOGRIDS **E'GRID™**

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 CO₂e 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 ⁱ , 4 x 30m ⁱⁱ
Tensile strength (MD/CMD)	ⁱ 30/30kN/m ² ⁱⁱ 40/40kN/m ²

Bespoke specifications available including on-site visits

BENEFITS OF E'GRID BIAxIAL GEOGRIDS

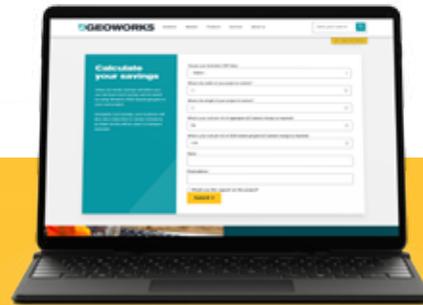
- ◆ 100 year design life
- ◆ 40% cost savings available
- ◆ 50% reduction available in the thickness of a compound or haul road
- ◆ Triple the load capacity on road and highway projects
- ◆ E'GRID 3030L is approved by Network Rail
- ◆ Cost-effective
- ◆ Faster than traditional construction methods
- ◆ 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

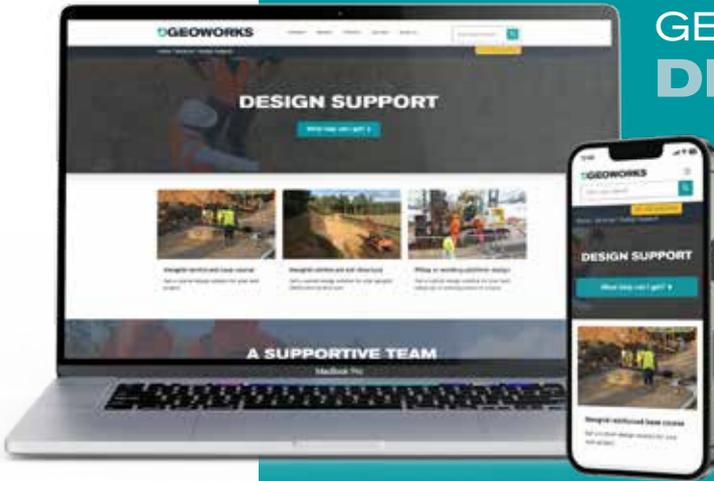


Instead of merely claiming a greener approach, we're making it possible for environmental efforts to be evidenced.

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.



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.

Find out more about all of our design services at [geoworks.eco](https://www.geoworks.eco)





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.

THE ECONOMICAL GEOGRID USE LESS ROLLS ON PROJECTS

SX Grid provides an economical and eco-friendly solution. Most geogrids are available in 4m roll widths, resulting in rolls having to be overlapped, increasing labour, cost and shipping. The SX Grid range is available in roll 5.2m wide rolls. This means SX Grid reduces the number of overlaps required compared to alternatives.



Reinforcement

QUICK GLANCE DATA

SX Grid Biaxial

Roll size(s)	5.2 x 50m
Tensile strength (MD/CMD)	20/20kN/m ² 30/30kN/m ²



COMPOSITE GEOGRIDS SX COMPOSITE

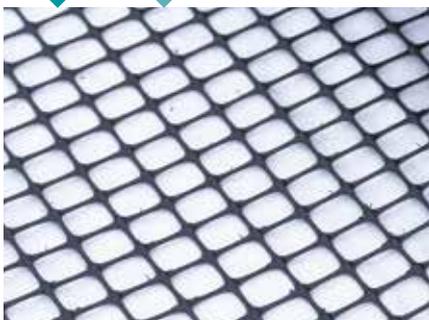
Achieve time savings when acquiring materials and overall quicker installations, thanks to SX Composite, a geogrid that performs as both a geogrid and a geotextile solution in one.

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.

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.

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.

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 Geomposite 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

SX Composite 4040 (coming soon)

Roll size(s)	5.2 x 50m
Tensile strength (MD/CMD)	40/40 kN/m



IMPROVED STABILITY

Achieve improved stability on haul roads and access roads with SX Composite Geogrid.



INCREASED USAGE

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



CARBON SAVINGS

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



REDUCED COSTS

Achieve reduced labour and plant costs during every installation.

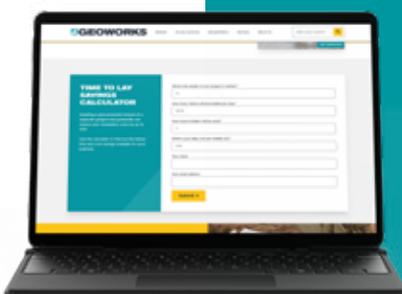
EXPERT SUPPORT

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.

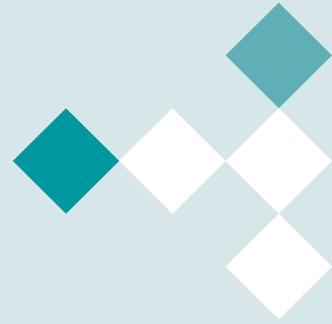


TIME TO LAY CALCULATOR

Installing your geotextile and geogrid separately can be a time-consuming task. Switching to a geomposite can cut your installation costs by up to 50%.

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

GEOCELLS & GEOCELLULAR PAVING



Geocells provide cellular confinement for a range of projects, including car parks, 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.

The geocellular confinement of CellTrack 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.





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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.

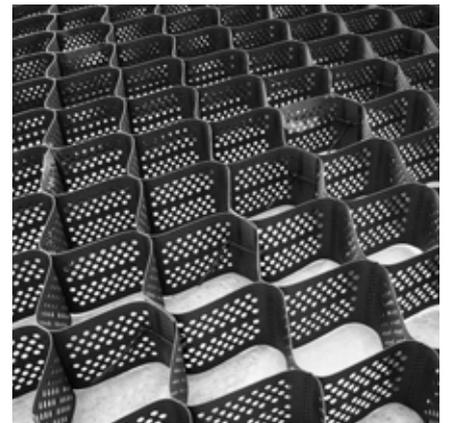
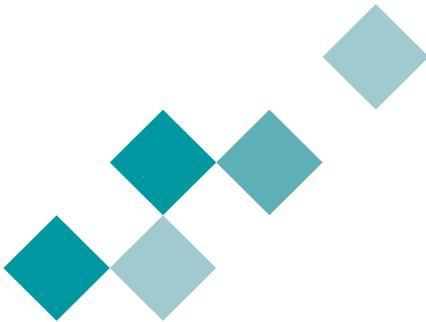


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CELLTRACK

GEOCELLULAR PAVING

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.





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.

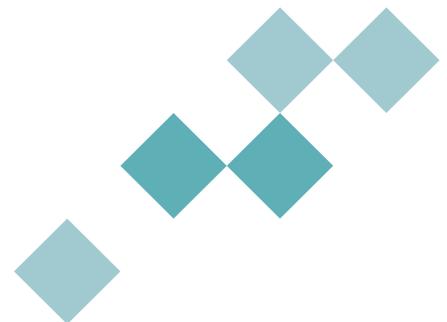
Common fill materials can be used, even in locations of high load intensity. When infilled, ProtectaWeb provides a semi-rigid foundation.

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





KEY APPLICATIONS

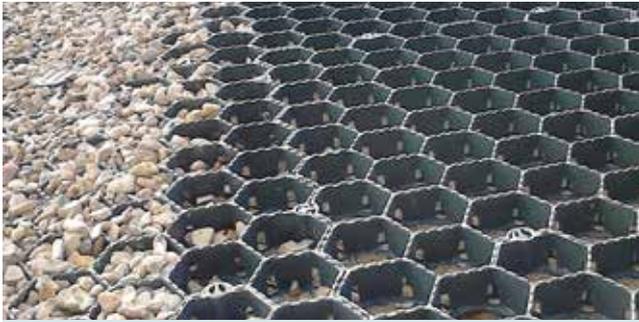
- ◆ Public parks
- ◆ Overspill car parks
- ◆ Public and private driveways
- ◆ Footpaths
- ◆ Caravan and camp sites
- ◆ Emergency vehicle access tracks

GEOCELLULAR PAVING 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 <i>Other sizes available upon request</i>
Tile depth	38, 50mm



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.

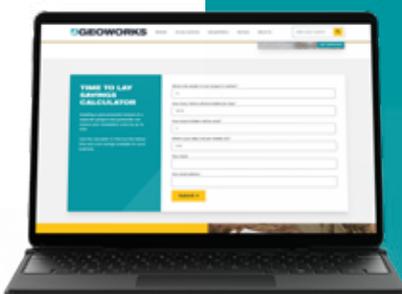
CellTrack HD is a permanent panelled system manufactured from recycled plastics.

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	100mm



CELLTRACK CALCULATOR

An intuitive calculator that allows you to compare the installation times for standard panel sizes versus large panel alternatives. View the potential time savings with larger panels that enables you to optimise your project timeline

See how much time you could save today, by simply entering a few key details. geoworks.eco/calculate

GEOMEMBRANES

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.





GEOSYNTHETIC CLAY LINER

GEOMEMBRANES

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

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](#)





GEOMEMBRANES 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)	5.1 x 40m
Weight	4,500g/m ²



GEOMEMBRANES **GT MEMBRANE 500**

Our standard impermeable geomembranes are a popular choice for creating a watertight barrier to prevent storm water from filtering out and saturating the surrounding ground.

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

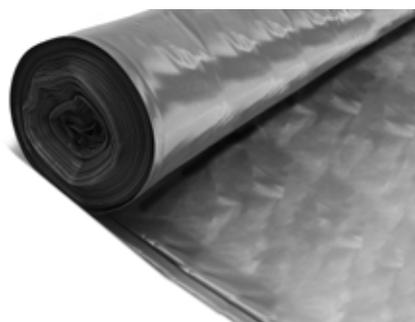


Containment

QUICK GLANCE DATA

GT Membrane 500

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





KEY APPLICATIONS

- ◆ Ponds
- ◆ Lagoons
- ◆ Anaerobic digestion ponds
- ◆ 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, 0.75mm, 1mm, 1.5mm, 2mm



GEOMEMBRANES BESPOKE GEOMEMBRANES

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**

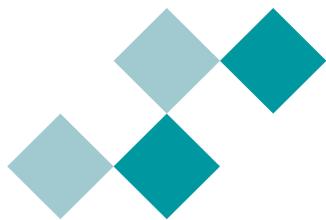


Containment

QUICK GLANCE DATA

Bespoke Geomembranes

Available materials | Polypropylene, LLDPE



GEOMATS

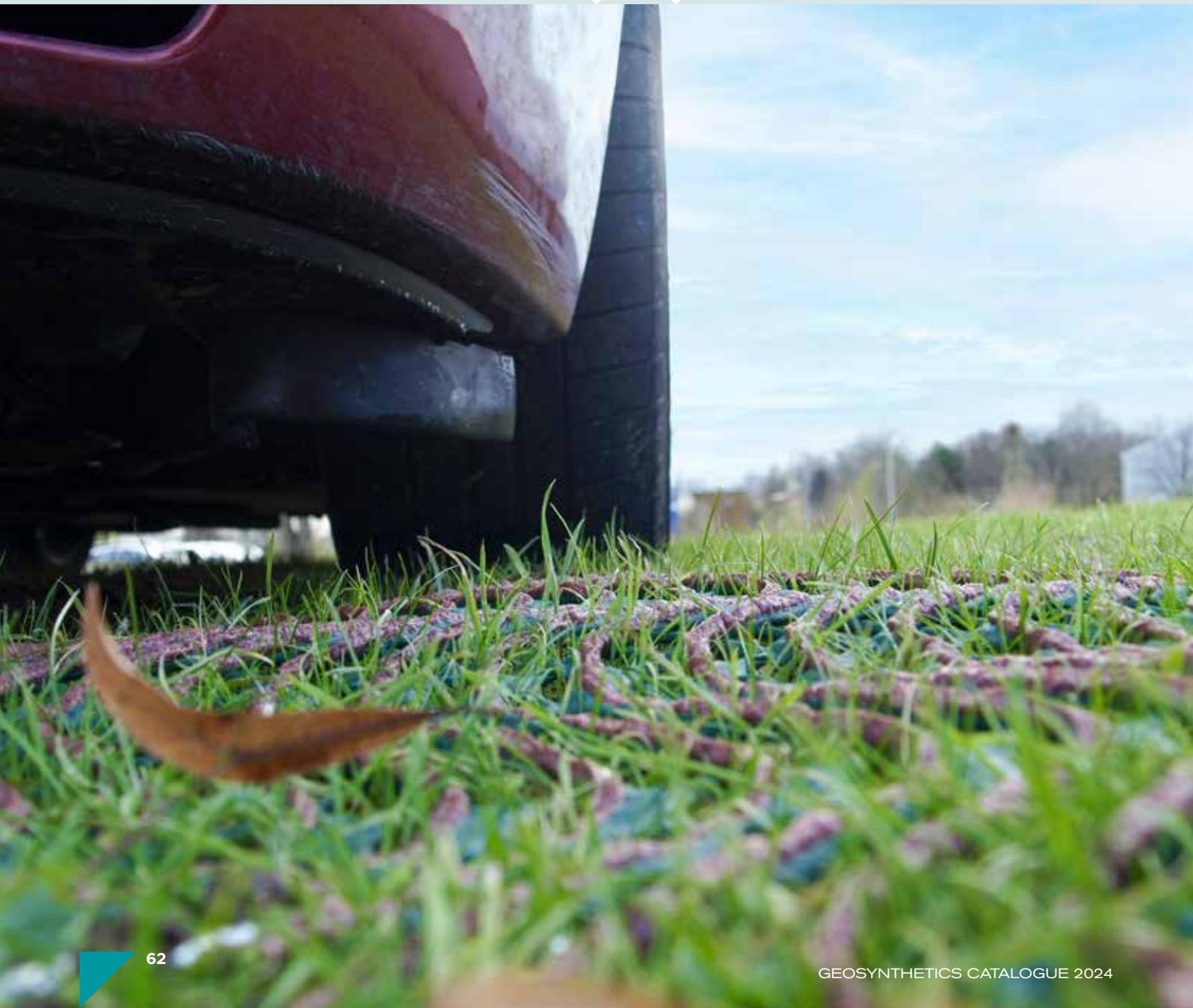
Geomats are designed to extend or support existing grass or vegetation areas. These are used for extensions of vehicular access areas in aesthetically sensitive locations.

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 effecting normal gardening practices e.g. mowing, fertilising, rolling.





PAGE 64

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.

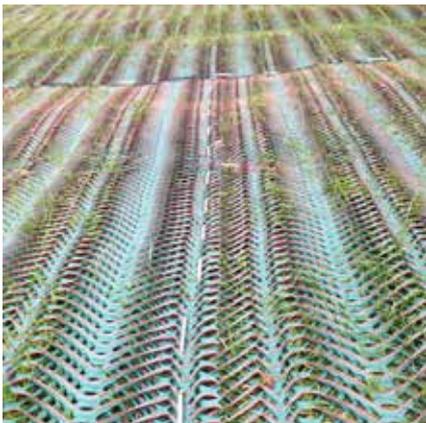
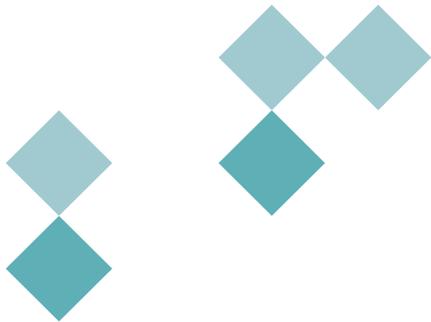


PAGE 65

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 creates a less slippery surface. 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 - Suitable for pedestrian, occasional car use and temporary access

1,400 - Suitable for occasional use of light commercial vehicles

1,800 - Suitable 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



GEOMATS TRINTER EROSION CONTROL MESH

KEY APPLICATIONS

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

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/m ²	1 x 14m
GTSG/FAST/2.25X25A	FasTrack Woven	1500N	18kN/m	75g/m ²	2.25 x 25m
GTSG/FAST/2.25X50A	FasTrack Woven	1500N	18kN/m	75g/m ²	2.25 x 50m
GTSG/FAST/4.5X11A	FasTrack Woven	1500N	18kN/m	75g/m ²	4.5 x 11m
GTSG/FASTRACK/A	FasTrack Woven	1500N	18kN/m	75g/m ²	4.5 x 100m
GTSG/FASTRACK/A/525	FasTrack Woven	1500N	18kN/m	75g/m ²	5.25 x 100m
GTSG/FASTRACK/FA	FasTrack Woven	1500N	18kN/m	75g/m ²	4.5 x 100m
GTSG/ORANGE4.5X100A	FasTrack Woven	1500N	18kN/m	75g/m ²	4.5 x 100m
GTSG18/18F/525	FasTrack Woven	2000N	17.25kN/m	91g/m ²	5.25 x 100m
GTSG25/25	FasTrack Woven	3200N	25kN/m	125g/m ²	5.25 x 100m
GTSG40/40S	FasTrack Woven	5000N	40kN/m	185g/m ²	5.25 x 100m
GTSG60/60	FasTrack Woven	5600N	60kN/m	258g/m ²	5.25 x 100m
GTSG80/80	FasTrack Woven	9000N	80kN/m	356g/m ²	5.25 x 100m

GEOTEXTILES
MULTITRACK



STOCK CODE	RANGE	CBR PUNCTURE RESISTANCE	TENSILE STRENGTH	WEIGHT	ROLL SIZE
GTNW/MULTITRACK	MultiTrack Nonwoven	1000N	6kN/m	80g/m ²	4.5 x 100m
GTNW/MULTI/1X14	MultiTrack Nonwoven	1500N	8kN/m	80g/m ²	1 x 14m
GTNW/MULTI/2.25X25	MultiTrack Nonwoven	1500N	8kN/m	80g/m ²	2.25 x 25m
GTNW/MULTI/2.25X50	MultiTrack Nonwoven	1500N	8kN/m	80g/m ²	2.25 x 50m
GTNW/MULTI/4.5X10	MultiTrack Nonwoven	1500N	8kN/m	80g/m ²	4.5 x 10m
GTNW/MULTI/700	MultiTrack Nonwoven	1500N	8kN/m	100g/m ²	4.5 x 100m
GTNW13	MultiTrack Nonwoven	2200N	13kN/m	160g/m ²	5.25 x 100m
GTNW15	MultiTrack Nonwoven	2500N	15kN/m	180g/m ²	5.25 x 100m
GTNW18	MultiTrack Nonwoven	3000N	18kN/m	215g/m ²	5.25 x 100m
GTNW20	MultiTrack Nonwoven	3100N	20kN/m	235g/m ²	5.25 x 100m
GTNW25	MultiTrack Nonwoven	3600N	25kN/m	300g/m ²	5.25 x 100m
GTSNW17	MultiTrack Superior Nonwoven	1700N	10.3kN/m	150g/m ²	4 x 100m
GTSNW40	MultiTrack Superior Nonwoven	4000N	22kN/m	300g/m ²	5.25 x 100m
GTSNW40/2.5X25	MultiTrack Superior Nonwoven	4000N	22kN/m	300g/m ²	2.5 x 25m
GTSNW40/2.62X100	MultiTrack Superior Nonwoven	4000N	22kN/m	300g/m ²	2.62 x 100m
GTSNW50/5.25X50	MultiTrack Superior Nonwoven	5000N	30kN/m	400g/m ²	5.25 x 50m
GTSNW80	MultiTrack Superior Nonwoven	8000N	45kN/m	650g/m ²	5.25 x 50m
GTSNW120	MultiTrack Superior Nonwoven	11500N	120kN/m	1000g/m ²	5.25 x 35m

GEOTEXTILES

WEEDSHIELD

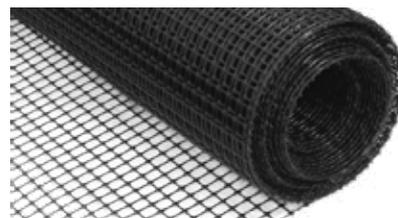


Product range coming soon

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

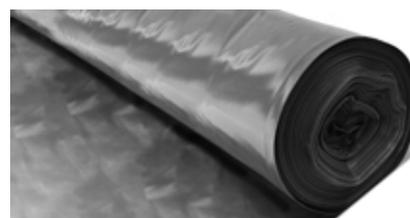
E'GRID, SX GRID, COMPOSITE GRID



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

GEOMEMBRANES

GEOSYNTHETIC CLAY LINERS, GEOMEMBRANES



STOCK CODE	DESCRIPTION	ROLL SIZE
GSMGCL4500/5.1X40	GCL 4500 Clay Liner	5.1 x 40m
GSM/GRANULES20	GCL 4500 Clay Liner Granules - 20kg	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
GSM/0.75HD/2.5X50	0.75mm HDPE Impermeable Geomembrane	2.5 x 50m
GS/HD0.75/5.10X100	0.75mm 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
GSM/HD1.5/5.10X100	1.5mm HDPE Impermeable Geomembrane	5.1 x 100m
GTMEM/TAPE/DS50X10	Double sided tape	50mm x 10m
GTMEM/TAPE/SS75X33	Single sided tape	75mm x 33m

GEOCELLULAR PAVING

CELLTRACK



STOCK CODE	DESCRIPTION	PANEL SIZE
GSCCELLTRACK/LP38BB	CellTrack Large Panel Paving System black 38mm	1200 x 800mm
GSCCELLTRACK/LP50BB	CellTrack Large Panel Paving System black 50mm	1200 x 800mm
GSCCELLTRACK/HD100	CellTrack Heavy Duty Paving System 100mm	600 x 400mm

GEOCELLS

PROTECTAWEB



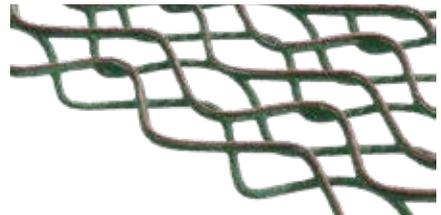
STOCK CODE	DESCRIPTION	PANEL SIZE
GTPROTECTAWEB/75/E	ProtectaWeb 75mm HDPE Tree Root Protection System	2.71 x 7.38m
GTPROTECTAWEB/100/E	ProtectaWeb 100mm HDPE Tree Root Protection System	2.71 x 7.38m
GTPROTECTAWEB/150/E	ProtectaWeb 150mm HDPE Tree Root Protection System	2.71 x 7.38m
GTPROTECTAWEB/200/E	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

GEOMATS TRINTER

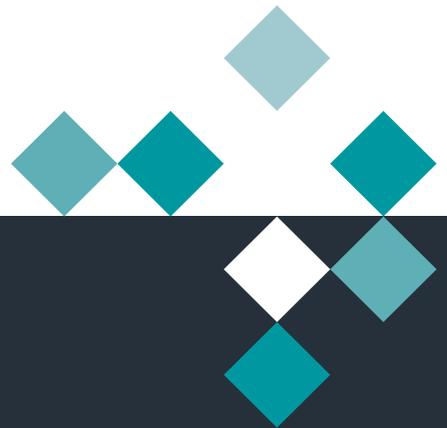


STOCK CODE	DESCRIPTION	ROLL SIZE
GSE/TRINTER/PP	Trinter Turf Reinforcement Mat	2 x 25m

GEOMATS TURFMESH



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



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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