

WREKIN

GEOSYNTHETICS

The complete range of Geosynthetics for
Ground Stabilisation, Reinforcement, Erosion Control,
Drainage, Environmental Protection,
Grass Protection & Weed Suppression



WREKIN

GEOSYNTHETICS

Wrekin are specialists in the supply, design and specification of a vast range of geosynthetic products. Our innovative approach to manufacture, project design and service has established Wrekin as a major supplier in the UK, offering prompt deliveries from our stocking depots nationwide.

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

We are continually developing and expanding our product ranges, providing cost effective solutions for a vast range of applications.

Please visit our website and or contact our sales staff for technical literature and support.

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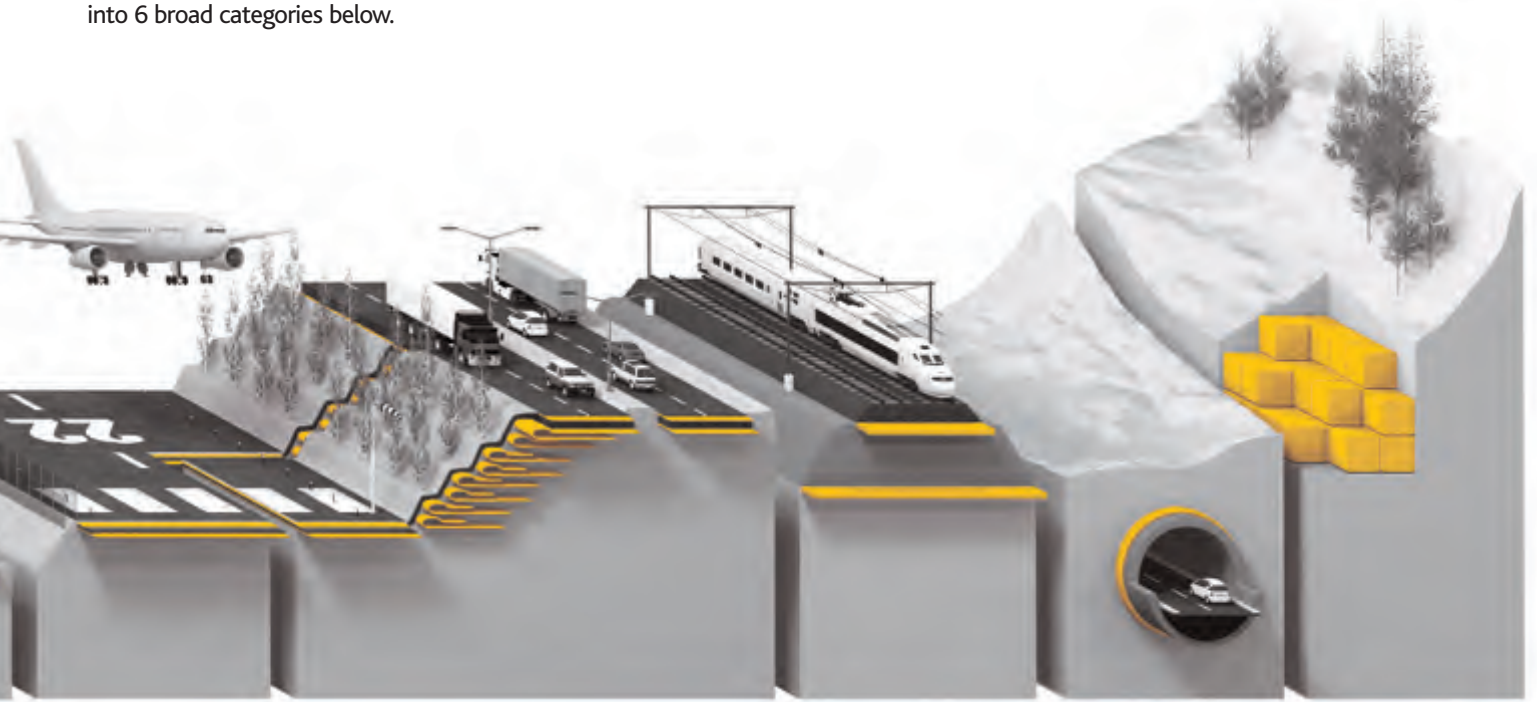
WREKIN

GEOSYNTHETICS FUNCTION SYMBOLS



Geosynthetic products play an integral role in the majority of building, civil and marine engineering projects. The range of applications and uses is vast, however we can break down the function of geosynthetics into 6 broad categories below.

Our function symbols have been developed to provide a quick reference guide to the relative function of each geosynthetic product group.



SEPARATION

The use of a geotextile to prevent the intermixing of dissimilar soil layers.



FILTRATION

The use of a geotextile to allow the passage of fluids (most commonly water) while preventing the uncontrolled passage of soil particles.



REINFORCEMENT

The use of the tensile properties of a geosynthetic material to resist stresses or contain deformations in soil structures.



DRAINAGE

The use of a geosynthetic layer to collect and transport fluids within its thickness.



PROTECTION

The use of a geosynthetic material as a stress reduction layer to prevent or reduce damage to an adjacent surface or layer.



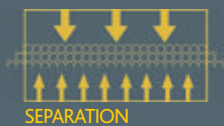
EROSION CONTROL

The use of a geosynthetic material to prevent the loss of soil particles from water erosion.

All Wrekin geotextiles are manufactured using state-of-the-art equipment and all products are tested in independently accredited, fully-equipped geosynthetics laboratories in accordance with the latest European and international standards.



WOVEN GEOTEXTILES



FASTRACK is a market leading brand of woven geotextile, manufactured using a range of different polymers, weave patterns and strengths. Wrekin offer 3 specific types of woven geotextile, SG (Standard Grade), HS (High Strength) & HF (High Flow).

FASTRACK woven geotextiles are specified by both civil & marine engineers, most commonly for the separation and

reinforcement of soil and aggregate layers, applications include roads, railways, foundations, embankments and coastal defenses.

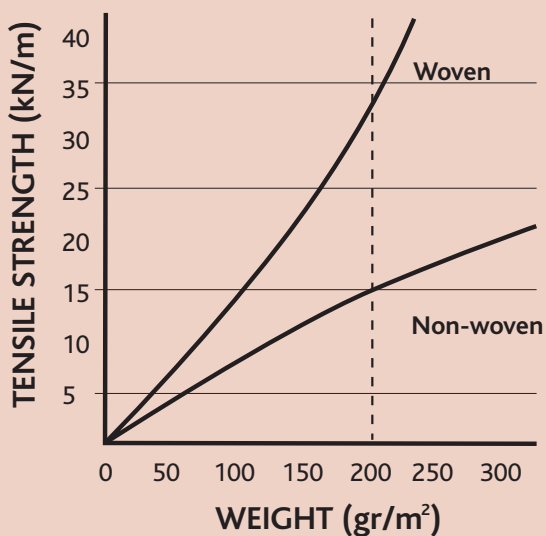
Wrekin offer a 'Total Geosynthetics Package' from sales & technical support to engineering design services, please visit our website or call us for more details.

FASTRACK

WOVEN GEOTEXTILES

FASTRACK WOVEN

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



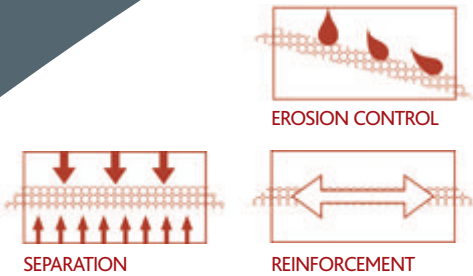
A GRAPH COMPARING THE TENSILE STRENGTH VERSUS MASS PER UNIT WEIGHT OF WOVEN AND NON-WOVEN GEOTEXTILES

Woven geotextiles typically offer greater mechanical strength per unit weight than comparable non-woven grades, providing a cost effective solution for a vast range of applications.

Woven geotextiles provide maximum strength for minimum cost.

FASTRACK

SG & FASTRACK 609

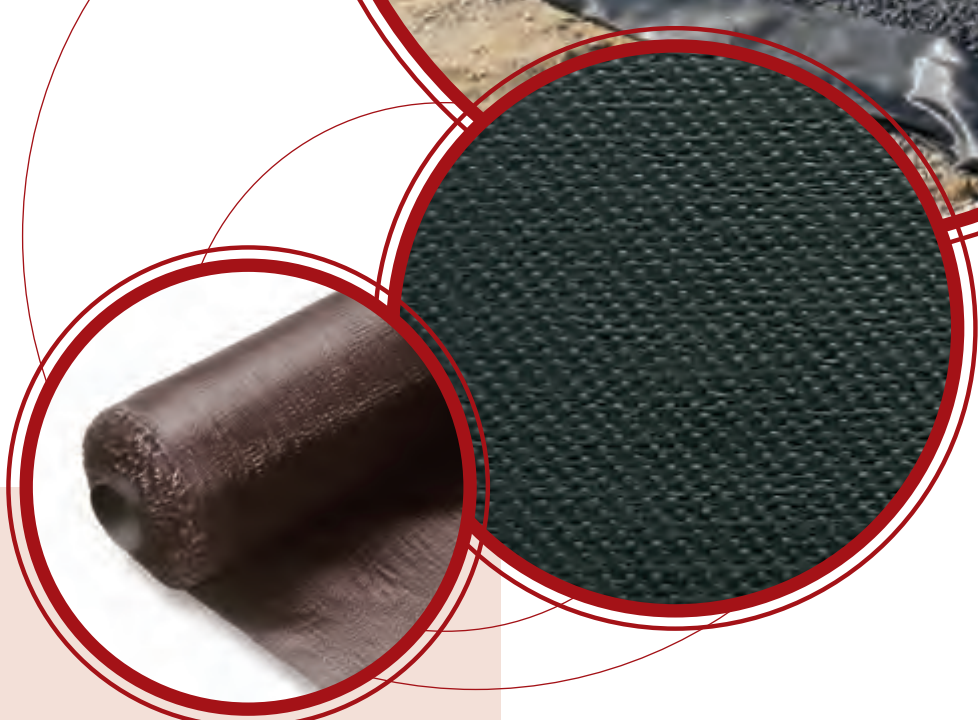


FASTRACK SG (Standard Grade) range of woven geotextiles is produced with long term performance in mind. Available in strengths up to 200kN/m width as standard and CBR puncture strengths ranging from 1.800N to 12.500N.

Woven from slit-film polypropylene tapes on high-tech Sulzer looms, our Fastrack SG range has been developed to provide engineering solutions for almost every separation application, providing maximum strength for minimum cost.

Mini-Rolls

FASTRACK is also available in a range of mini-rolls and packs from stock. Ideal for use on small construction and landscaping contracts. Fastrack mini rolls provide contractors with a cost effective solution for small general purpose applications.



FASTRACK 609

FASTRACK 609 is one of the largest selling general purpose geotextiles in the UK. Designed and manufactured to conform to the old Department of Transport Highways Specification for road and earthworks separation. Fastrack 609 provides a cost effective solution for separation, support, reinforcement and filtration for the general building and domestic market.

APPLICATIONS

- Separating - access roads & areas of hard-standing.
- Separating - granular fill from sub soils and other fill layers.
- Separating / Reinforcing - layers under new roads, car parks & industrial areas.
- Separating / Reinforcing - layers under stone foundation for new buildings
- Erosion Control - coastal defences

FASTRACK

HIGH FLOW (HF) & HIGH STRENGTH (HS)

FASTRACK HS WOVEN

(High Strength)

The FASTRACK HS range of woven geotextiles is manufactured from high tenacity polyester yarns offering strengths in the principle load bearing direction up to 400kN/m width. White in colour, these reinforcing fabrics typically offer less than 2% creep after two years at a loading 50% of maximum strength.



REINFORCEMENT

FASTRACK HF WOVEN

(High Flow)

The FASTRACK HF range of woven geotextiles is designed to provide high water through-flows with optimum particle retention. Manufactured from a mixture of mono and multi filaments of polyester/polypropylene, they can attain water flow rates of up to 700 l/m²/sec.



FILTRATION



EROSION CONTROL

HS APPLICATIONS

- Reinforcement of soil walls
- Basal reinforcement of embankments
- Load transfer platforms
- Spanning over areas of possible mining subsidence

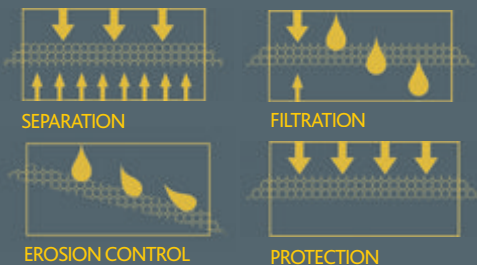
HF APPLICATIONS

- Filter wrap to granular drainage trenches
- Erosion control layer under rock armour
- Filter layer under artificial sports surfaces
- All weather horse arenas
- Filtration/separation layer in storm control systems

APPLICATIONS



NON-WOVEN PRODUCTS



MULTITRACK Non-Woven geotextiles provide engineers with a comprehensive range of products 70-2000gsm. MULTITRACK Non-Woven geotextiles are manufactured in state of the art facilities and provide the combined qualities of high water permeability and mechanical robustness. They play a major role in construction when performing the functions of separation, filtration and erosion control.

There are two specific types of MULTITRACK non-woven geotextiles, Thermally Bonded and Needle Punched.

Wrekin offer a 'Total Geosynthetics Package' from sales & technical support to engineering design services, please visit our website or call us for more details.



MULTITRACK

NON-WOVEN GEOTEXTILES



MULTITRACK

MULTITRACK non-woven geotextiles have been designed and developed to offer optimum performance per unit weight. Their resulting mechanical robustness and excellent hydraulic properties make them the ideal choice for applications requiring separation & filtration. Non-woven geotextiles, due to their high elongation at break, offer greater resistance to installation damage.

Furthermore non-woven geotextiles and in particular our SNW range, are ideally suited for use in membrane protection and coastal defenses due to their excellent puncture resistance and permeability properties.

Our Multitrack ranges have been carefully developed to provide engineers with a comprehensive choice of strengths, mechanical and hydraulic properties, to meet most on site requirements.

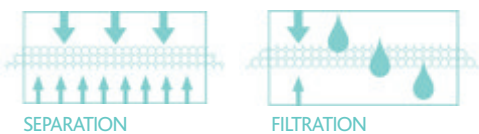


MULTITRACK

THERMALLY BONDED NON-WOVEN (NW)

NW THERMALLY BONDED NON-WOVEN GEOTEXTILE

The MULTITRACK NW range of thermally bonded non woven geotextiles have been developed for light weight separation and filtration. Manufactured using a unique thermal bonding process, our NW range has excellent filtration properties, making them ideal for use in a variety of construction applications. Examples would include trench drains, wrapping of attenuation units, wrapping of perforated drainage pipes and encapsulation of granular drainage blankets.



MULTITRACK NW8

MULTITRACK NW8 is one of the UK's most commonly specified general purpose non-woven geotextiles and is our alternative to Terram® 1000. Used as a separation and filtration layer in applications for erosion control, attenuation units, horse arenas, trench drains etc.

Mini-Rolls

Multitrack is also available in a range of mini-rolls and packs from stock. Ideal for use on small construction and landscaping contracts, Multitrack mini rolls provide contractors with a cost effective solution for small general purpose applications.

APPLICATIONS

- Separating/strengthening layer under access roads & areas of hard-standing
- Filter surround for trench drains
- Separation to stop the intermixing of dissimilar soil layers
- Filtration, allowing the flow of water whilst preventing the passage of soil

MULTITRACK

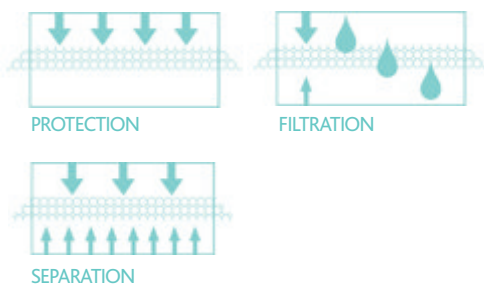
NEEDLE PUNCHED NON-WOVEN (SNW & VNW)

SNW & VNW NEEDLE PUNCHED GEOTEXTILES

Our Superior Non Woven (SNW) range of geotextiles are manufactured by needle punching a web of high tenacity fibres to produce a consistent & uniform product of highest performance. Produced on state of the art computer controlled production lines, available in weights from 120 to 800gsm. SNW products offer a combination of high water permeability and particle retention, properties that provide engineers with a versatile fabric ideally suited for protection, separation and filtration functions.

VNW non-woven geotextiles are manufactured using multicolored staple virgin fibres, developing products of a medium performance. VNW products offer greater mass per unit area and are suited for use where a thick cushioning layer/ high elongation are viewed as key design requirements.

Our SNW and VNW ranges provide relatively high puncture resistance making them ideal materials for use as pipeline protection fleeces, erosion control layers under rock armor, in coastal defense projects or as protection fleece for impermeable liners on landfill sites/SUDS related projects.



- Protection Fleece for impermeable liners (SUDS page 16)
- Land fill sites
- Protecting coastal defences from erosion

- Pipeline protection fleece
- River bank erosion control

APPLICATIONS



MULTIGRID & E-GRID - BIAXIAL & UNIAXIAL GEOGRIDS

Wrekin's total geosynthetics package includes a complete range of geogrid ground stabilisation products including:

MULTIGRID – A RANGE OF LASER- WELDED BIAXIAL GEOGRIDS

Multigrad Biaxial Geogrid provides engineers with a cost-effective solution for sub-base reinforcement and soil stabilisation where soft and unstable soils are present and will give comparable performance to other types of biaxial geogrid.

E-GRID - BIAXIAL & UNIAXIAL RANGE OF PUNCHED AND DRAWN GEOGRIDS

E-grid Biaxial geogrids are punched and drawn from polypropylene sheets and offer a rigid geogrid solution. Fully comparable to other market-leading geogrids, used primarily in ground stabilisation over soft and unstable soils.

E-grid Uniaxial geogrids are a specialist geogrid range used specifically for the reinforcement of embankments and slopes.



REINFORCEMENT



GEOGRIDS

MULTIGRID (BIAXIAL)

RESEARCH & DEVELOPMENT LABORATORY

Polymers and master batches used in the manufacture of MULTIGRID georids are strictly selected, tested and performance checked prior to grid production. Fully automated production systems guarantee consistent properties are maintained in strict accordance with all relevant international standards.

MULTIGRID FLEXIBLE BIAXIAL GEOGRID

Multigrig is a precision laser bonded biaxial geogrid, manufactured from high tenacity extruded polypropylene bars. The laser welding process creates consistently rigid junctions throughout the geogrid structure, without compromising the integral strength of the extruded bars.

Multi-grid has been designed to maximise bearing capacity and shear resistance in basal reinforcement applications, providing

engineers with a cost-effective solution for sub-base stabilisation.

Multi-grid is most commonly used under permanent and temporary access roads and in general groundworks to provide a stable foundation over unstable/soft soils.

Please contact our sales department for full technical specifications.

- Ground stabilization
 - under roads
 - Railways
 - Ports and paved areas



APPLICATIONS

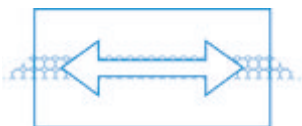
GEOGRIDS

E-GRID (BIAXIAL)

E-GRID RIGID BIAXIAL

E-grid Biaxial geogrids from Wrekin can solve pavement problems by providing omni-axial reinforcement to granular sub-bases, capping layers & railway ballasts in areas of weak or variable soils. When granular particles are compacted over these 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 soil, improving compaction and allowing the sub-base thickness to be decreased, ultimately reducing construction time & costs.

E-grid Biaxial geogrids can be employed in single or multi layers. The tough platform created provides tremendous load dispersal, allowing previously weak soils to be reclaimed for development e.g. Foundations, Motorways, Railways & Airport Runways. Biaxial geogrids are available in standard and large aperture sizes, to suit any fill material.

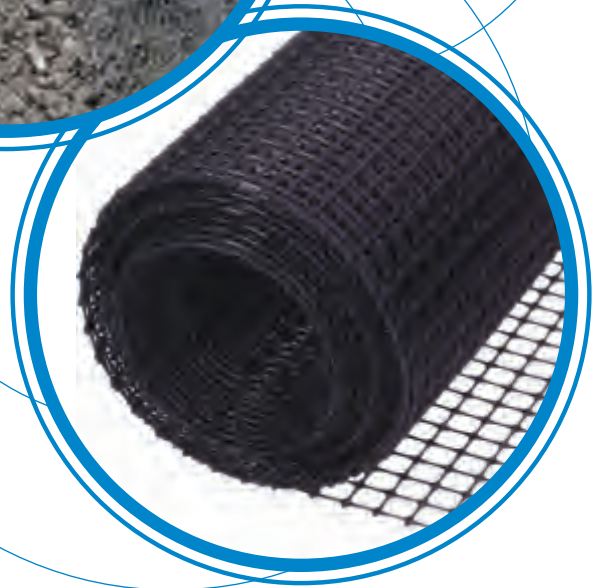


REINFORCEMENT

APPLICATIONS

BIAXIAL

- Ground stabilization
 - under roads
 - Railways
 - Ports and paved areas



GEOGRIDS

E-GRID (UNIAXIAL)

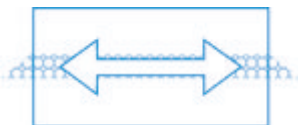
UNIAXIAL

E-grid Uniaxial geogrids from Wrekin are manufactured from high density polyethylene (HDPE), which is punched and drawn to create long apertures in the principle load carrying direction. Used in the reinforcement of walls and slopes, its principle characteristic is good creep performance with low strain and high strength under constant load.

Soil banks are constructed by wrapping E-grid Uniaxial geogrid around the soil face to the required slope angle, this process is repeated in layers to create a stable/steep embankment. Reinforced soil retaining walls can be constructed

with a variety of faces, these structures can accommodate base deformation and have particularly good resistance to vibration and earthquakes. E-grid reinforcement can improve the bearing capacity and safety of a structure whilst helping to reduce construction cost.

Engineers can further attain cost savings by reusing on site material, potentially from previously failed slopes, which can be excavated and reused together with E-grid geogrids to construct a stable embankment or slope. For more information on our E-grid range and/or technical support, please contact our sales department.



REINFORCEMENT

UNIAXIAL

- Reinforcement of soil walls and abutments
- Soil slopes along side roads and railways

APPLICATIONS



NEOWEB CELLULAR CONFINEMENT SYSTEM



The Neoweb cellular confinement system has been designed to prevent shear failure and lateral movement of aggregate materials. Neoweb stabilises the infill, providing load distribution over weak soils, base stabilisation for paved and unpaved roads.

Neoweb is a perforated panelled system, providing contractors with straightforward installation, even on steep banks and slopes. Neoweb provides a cost effective solution for stabilisation, reducing the granular fill requirement by up to 50%.

Neoweb permits the use of common fill materials even in locations of high load intensity. Manufactured from high density polyethylene (HDPE), Neoweb when infilled provides a semi-rigid foundation. Traffic loads are distributed laterally, reducing rutting and assisting in the retention of infill materials.

Wrekin offer a 'Total Geosynthetics Package' from sales & technical support to engineering design services. Please visit our website or call us for more details.

NEOWEB

CELLULAR CONFINEMENT SYSTEM



Neoweb is a perforated cellular confinement system, which collapses into lightweight and compact bundles for easy handling on site. The perforations improve lateral drainage through cell walls, promoting stability through greater root lock in vegetated systems.

Integral polyester tendons, incorporated into the perforated system through predrilled holes, provide additional clamping of the Neoweb. This provides additional

stability, especially important when the use of a geomembrane underlay prevents anchoring with stakes.

Neoweb can be installed and built up in layers to create steep and structurally sound embankments, often in support of roads and railways. This method of construction provides engineers with a cost effective and reliable method for embankment creation, furthermore Neoweb helps to promote the growth of natural vegetation cover.

- Road and pavement reinforcement
- Rail base stabilisation
- Slope and channel protection & stability
- Earth retention for banks & slopes

- Earth walls
- Reservoir and landfill protection
- Vegetative slope confinement/erosion control

APPLICATIONS



IMPERMEABLE GT MEMBRANE, GEOGRIDS & SNW NON-WOVEN GEOTEXTILE

Wrekin offer a full range of Geosynthetics for use with Sustainable Underground Drainage Systems (SUDS). It is now normal planning practice for developers and architects to design methods for controlling surface water

run-off in all new build schemes. Often the most efficient and effective method of control is by installing "infiltration and/or attenuation tanks", which act as slow release reservoirs for surface water run-off.

Geomembrane and geotextile products are essential components for the installation, protection and continuing function of attenuation tanks and similar SUDS. Wrekin have tailored a range of products specifically aimed at promoting and prolonging sustainable drainage systems.



FILTRATION



PROTECTION

GEOSYNTHETICS FOR SUD SYSTEMS

NON WOVEN GEOTEXTILES

Geotextiles have a variety of uses in SUDS. Our specialist Multitrack SNW products (see page 11) are commonly specified as protection fleeces for attenuation tanks, protecting impermeable membranes from puncture.

Our Multitrack NW range of non woven geotextiles (page 10) are commonly specified for wrapping modular water storage units/blocks for 'infiltration tanks'. The Multitrack NW range have excellent water-flow and filtration properties, making them ideal for applications such as trench drains, soakaways, infiltration tanks and reservoirs.

GT MEMBRANE IMPERMEABLE LINERS

Wrekin offer a range of **impermeable liners** for wrapping modular water storage units/blocks, creating a watertight barrier to prevent storm water from filtering and saturating the surrounding ground. Specialist single sided and double sided joining tapes are available to ensure overlapped joints are fully sealed.

GEOGRIDS

SUDS can be installed in areas with poor ground conditions. Both Biaxial and Uniaxial geogrids (page 12) can be employed to help stabilise the ground prior to installation and SUDS can subsequently be built upon.

- Attenuation Tanks require both impermeable membrane and a protection fleece, which prevents the membrane from puncture.

- Infiltration Tanks require a highly permeable geotextile with good filtration properties, to prevent particles entering and silting the tank.

- E-Grids help to stabilise the ground prior to SUDS installation

APPLICATIONS



GRAVEL RETENTION & GRASS PROTECTION



PROTECTION



REINFORCEMENT



EROSION CONTROL

Access areas and driveways often require regular maintenance and/or suffer damage after use. As a result of customer feedback, Wrekin launched two specific products aimed at supporting and reinforcing grass and gravelled access areas and driveways; Celltrack & Turf Mesh (page 22).

Celltrack is a grass protection and gravel retention system, specifically designed to allow the development and extension of vehicular access areas in aesthetically sensitive locations.

Manufactured with ease of installation in mind, Celltrack can be used with a variety of fill materials, allowing developers to build new access areas (e.g. roads & car parks) which are both pleasing to the eye and consistent with the existing environment.

Wrekin offer a 'Total Geosynthetics Package' from sales & technical support to engineering design services. Please visit our website or call us for more details.

CELLTRACK

ACCESS PROTECTION SYSTEM



CELLTRACK

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

Our Celltrack system should be laid onto a solid level aggregate base, which in turn will require a separation geotextile (usually Fastrack 609 - see page 6 - or Multitrak NW8 - see page 10) to prevent rutting/intermixing with sub soils. In areas of weak and unstable ground additional support might be required by the use of a biaxial geogrids; Multigrad or Egrid (pages 13 & 14).

Celltrack can be infilled with soil to promote grass growth or gravel to create decorative driveways and paths. The honeycomb structure helps to retain gravel on driveways and protect/promote the growth of grass when infilled with soil in turfed areas. In all applications Celltrack provides excellent support for vehicular traffic, please contact our sales department for more details.

- Public parks
- Overspill Car Parks
- Sports fields (school playing fields)
- Horse tracks
- Public & Private driveways

- Footpaths
- Caravan/Camp Sites
- Emergency vehicular access tracks to industrial and public buildings.

APPLICATIONS



TURF/GRASS PROTECTION

Temporary access areas and driveways often require regular maintenance and/or suffer damage after use. As a result of customer feedback, Wrekin have launched two specific products aimed at supporting and reinforcing grass and landscaped access areas and driveways; Turf Mesh & Celltrack (page 20).

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

Turf Mesh is manufactured from a heavy duty thermoplastic which incorporates a blowing agent to help texture and create a less slippery surface. Green in colour Turf Mesh is UV stabilised, rot resistant and chemically inert, providing a long term reinforcement solution.



PROTECTION



REINFORCEMENT



EROSION CONTROL

TURF MESH

GRASS PROTECTION SYSTEM

TURF REINFORCEMENT MESH

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

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

Turf Mesh is available in 2 two grades, Standard and Heavy to suit different loading capacities from pedestrian to emergency vehicle access. Turf Mesh is available in several roll sizes from stock, please contact our sales department for further details and design advice.

- Overflow Car Parks
- Pedestrian grassed areas
- Emergency Access Routes
- Golf Course Buggy Access

- Caravan Parks
- Equestrian Surface Reinforcement
- Footpaths & Cycle Tracks
- Light Aircraft taxi-ways

APPLICATIONS



BANK STABILISATION



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. Wrekin offer two specific types of erosion control matting;

- o EM4 Erosion Mesh has a dense three-dimensional structure that is designed to become a permanent and integral part of the slopes/banks vegetative structure.
- o Natural Fibre Erosion Control Matting, for use in environmentally sensitive areas, these natural fibre products will eventually biodegrade after the protective vegetative layer has been established.

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BANK STABILISATION

EM4 EROSION MESH & COIR MATTING

EM4 EROSION MESH

EM4 Erosion Mesh is a highly effective erosion control matting developed to protect slopes and embankments from wind and water erosion. It is only by establishing a natural vegetative layer on a slope that erosion can be controlled. EM4 Erosion Control Mesh has been designed to help quickly establish a strong vegetative layer, helping to retain good soil and seed on steep slopes. Constructed from multiple layers of high tensile Polyethylene, it traps soil particles in position helping to encourage seed germination.

As the vegetation becomes established, EM4 Erosion Control Mesh becomes an integral part of the root zone, helping to further strengthen & reinforce the slope. EM4 Erosion Matt has been used to establish vegetation on slopes in many different environments.

NATURAL EROSION CONTROL PRODUCTS

Wrekin also offer an extensive range of biodegradable erosion control products. Natural fibre matted products perform in a similar manner to our EM4 Erosion Control Matting, by assisting soil retention and helping to quickly establish plant growth on slopes and embankments.

Our natural erosion control products are manufactured from agricultural by-products, such as coir (coconut) and straw, which are supported and interwoven with either jute or polypropylene netting. These products help to successfully establish vegetative growth on slopes and embankments before naturally breaking down and becoming part of the established vegetation.

- River banks
- Lakes
- Shoreline
- Spillways
- Canal ditches
- Golf Courses
- Lawned embankments
- Motorway & Railway embankments
- Conservation areas



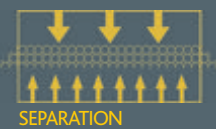
APPLICATIONS



WEEDSTOPPA

FOR LOW MAINTENANCE
GARDENING WEED CONTROL
WITHOUT CHEMICALS

CREATES A HEALTHY & FERTILE SOIL
WHILST PREVENTING WEED GROWTH



HOW WEEDSTOPPA WORKS

Weedstoppa works by establishing a breathable membrane barrier through which weeds are inhibited from penetrating.

Weedstoppa allows air and liquids through, creating a healthy fertile soil available only to your chosen plants.

Weedstoppa is hydrophillically treated to allow liquids to pass through immediately.

The addition of a mulch cover layer is necessary to ensure the success of Weedstoppa. It serves 3 functions:

1. Shuts out the remaining light to stop growth under the Weedstoppa.
2. Acts to protect Weedstoppa from U.V. Light ensuring Weedstoppa has a long life.
3. Decorates the area in keeping with your garden.

USED CORRECTLY, WEEDSTOPPA WILL CONTROL WEEDS SUCCESSFULLY WITHOUT ANY NEED FOR CHEMICALS

WEEDSTOPPA

WEED SUPPRESSION FABRICS

The Weedstoppa retail point of sale display package is replaced every time a new order of product is placed. This ensures a fresh looking display at all times. Each package contains 20 rolls, each roll measuring 1m x 15m. Other roll sizes available on request.

The Weedstoppa product also carries a 35 year guarantee.

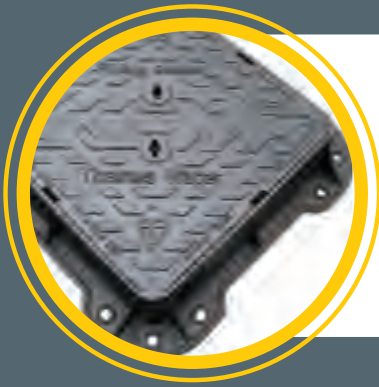


WEEDSTOPPA V CURRENT MARKET LEADER

Area	Weedstoppa	Market Leader	Weedstoppa Benefits
Light transmissivity	Less than 3.0%. Insufficient light for plant growth	Up to a massive 38% Geospec test 21.10.02. Weeds will grow happily under Market leader with this light available	More effective product. Less mulch required, saving customer time and money
Application of product	Soft membrane follows contours of land	Very springy product - does not follow contours of land	Much easier to apply for the user
Product structure	Even distribution of fibres	Random distribution of fibres allowing micro holes	Guarantees no weeds will penetrate the membrane
Porosity	Hydrophilically treated so that liquids pass through immediately	Surface tension has to be removed before liquids will pass through immediately	Customers will not complain that the product has caused 'Pudding'
Need for chemicals	No need for any chemicals with Weedstoppa	Market leader recommends the use of chemicals before laying	Weedstoppa will save customer time and money

- A weed free garden path/pedestrian/ aggregate area
- Planting a flower/shrub bed
- Suppressing weed growth under timber decking

APPLICATIONS



unite

Our design brief was "...to design the ultimate long life manhole cover". The result; our UNITE Anti-Flex manhole cover design, incorporating many innovative & patented features. Suitable for all areas of Highway vehicular traffic, Unite is specified by many Local Authorities and Utility Companies, including the Thames Water framework.

The principle is simple; **Reduced Cover Flex = Reduced Cover Wear = Long Life = Anti-Flex**

The patented 'Anti-flex L-beam' largely eliminates cover flex; this combined with our Load Transfer frame design provides unparalleled Anti-wear/Fail performance. Unite Anti-Flex is simply the best manhole cover design available in the UK.

HIGHWAY

The Highway design incorporates significant patented design features that have been proven to prolong the life of the manhole cover assembly in high intensity tracked areas. Designed in accordance with Highways Authority Standard HA104/02, our Highway designed manhole cover system is fully compliant with current Local Authority specifications.



Utility

Our Utility range is based upon the standard square framed manhole cover design commonly supplied throughout the UK. By using finite element analysis at the design stage we have been able to not only improve the performance but also gain efficiencies in manufacture. This has enabled us to provide a cost effective product Kitemarked to EN124, suitable for use in all highway locations.

STORA DRAIN LINEAR DRAINAGE

Wrekin are one of the major UK stockists for 'Stora Drain' channel drainage products, offering a full range of polyester concrete channels with stepped or built-in fall, for all BS EN 124 loading categories. A wide range of overlay gratings is available to suit a variety of applications. Please contact our sales department for more information.



STEEL FABRICATIONS

Wrekin have over 25 years' experience in the design and manufacture of a full range of fabricated access covers & frames. Wrekin offer manhole cover solutions for any chamber size, in any location and to virtually all specifications. We provide a comprehensive design service, from site surveys to specific CAD drawings. Please contact our sales department or visit our website to see our complete package.

For more information on any of these products call 01283 222042
or visit www.wrekinproducts.com

Recent changes to planning permission for new estate roads state:
'...all manhole covers & gully gratings shall be set to the level of the temporary running surface until immediately prior to the laying of the final wearing course'

Save Time. Save Money. Fit ElevAta.

Wrekin are again leading the way through innovative design. ElevAta has been developed to make the process of raising ironwork on estate roads both quick and easy, the frame only needs to be bedded in once and the whole assembly can then be raised in minutes using the bolting kits supplied.

- 1 Spacer Bar (Only used in lower position)
- 2 Double Triangular Cover
- 3 Raising Frame
- 4 Manhole Cover Frame
- 5 Fixing Bolts
- 6 Cover Coupling Bolts



Benefits of the ElevAta design:

- Only one bedding installation required!
- Time saved. Typically it takes 2hrs to raise 1 manhole cover (+24hrs curing time), ElevAta can reduce this time to under 10 mins for a manhole cover & less than 5 mins for a gully grating.
- No jack hammer required, removing the risk of damage to the bedding sub-structures & manhole cover frame!
- No requirement to build-up the supporting substructures!
- ElevAta provides a useful and accurate reference for both the Binder course level (lowered position) & the surfacing course level (raised position), ensuring the optimum tarmac depth is maintained.
- The ElevAta grating incorporates DTH (Double Tri Hinged) patented design feature, the grating is both captive hinged and double triangular (non-rocking).
- Fully Kitemarked in both lowered and raised positions.

ELEVATA®

Single Fix Solution for Raising Ironwork



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