Grass & Ground Reinforcement Solutions
It is only in the last thirty years or so that the demand has grown for soft unpaved solutions that can be trafficked and are more aesthetically pleasing than concrete and asphalt.

However, soft paved options that also offer long-term performance have required technological advances.

It is now possible to construct walkways, service roads and car parks which are not only pleasing to the eye but can also be discreet, retain their appearance and continue to perform when other non-engineered alternatives are worn and unattractive.

Fiberweb Geosynthetics’ solutions are predominantly natural grassed surfaces, whilst some can also provide gravel surfaces.

The products have been specifically developed with different trafficking requirements in mind because the demand can vary from occasional foot traffic to frequent-use or heavily-loaded vehicles.

Therefore, it is important for you to know that you are working with a leading company who offer a full range of professional solutions and who also have technical, industry-based experience to assess the problem and provide the most appropriate cost-effective solution, rather than offering a one-size-fits-all approach.

Fiberweb Geosynthetics manufacture a range of solutions to reinforce, stabilise and protect grass and gravel surfaces. The chart opposite provides an indication of which product may be best suited for your project as determined by the existing ground conditions, the application and the frequency of use.

Fiberweb Geosynthetics Ltd and TERRAM™ products

Fiberweb plc established Fiberweb Geosynthetics Ltd after the acquisition of Boddingtons International Ltd in 2010. The resulting portfolio not only includes the well-established TERRAM geosynthetics but also includes the grass and ground reinforcement products which were historically associated with Boddingtons Ltd. The entire UK manufacturing capability is being expanded and centralised at Maldon in Essex.

Fiberweb Geosynthetics Ltd provides a unique range of value-engineered solutions that also help minimise the environmental impact of construction. With unrivalled expertise and experience in geosynthetics, accumulated over a 40 year period since the TERRAM range was first launched, the company remains committed to the development of innovative and cost-effective geosynthetic solutions.

The company intends to lead the market in the design and manufacture of innovative geosynthetics, and continue to provide ground-breaking solutions.
# PRODUCT SELECTOR for vehicular applications

The chart below provides an overview of which product may be best suited for your grass or ground reinforcement project as determined by the existing ground conditions, the application and the frequency of use. All products are suitable for pedestrian applications.

<table>
<thead>
<tr>
<th>PRODUCT</th>
<th>FREQUENCY OF USE</th>
<th>SUGGESTED APPLICATIONS</th>
<th>LOADING</th>
<th>PAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>TURFPROTECTA</td>
<td>Two grades of recycled plastic mesh for grass reinforcement</td>
<td>Infrequent vehicular use</td>
<td>Overflow grass car parks, Pedestrian/wheelchair access routes</td>
<td></td>
</tr>
<tr>
<td>GRASSPROTECTA</td>
<td>Two grades of thick plastic grass reinforcement mesh</td>
<td>Occasional consecutive vehicular use</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BODPAVE 40 (Grass)</td>
<td>Medium duty plastic porous paving grid for grass reinforcement</td>
<td>Occasional consecutive vehicular use</td>
<td>Grass car parks, Fire access routes</td>
<td></td>
</tr>
<tr>
<td>BODPAVE 40 (Gravel)</td>
<td>Medium duty plastic porous paving grid for gravel retention and stabilisation</td>
<td>Regular vehicular use</td>
<td>Fire access routes, Car parks, Driveways, Cycle routes</td>
<td></td>
</tr>
<tr>
<td>BODPAVE 85 (Grass)</td>
<td>Heavy duty interlocking plastic porous pavers for grass reinforcement</td>
<td>Occasional consecutive vehicular use</td>
<td>Grass coach parks, Grass car parks, Fire access routes</td>
<td></td>
</tr>
<tr>
<td>BODPAVE 85 (Gravel)</td>
<td>Heavy duty interlocking plastic porous pavers for gravel retention and stabilisation</td>
<td>Frequent/Intensive vehicular use</td>
<td>Coach parks, Fire access routes, Car parks, Driveways, Cycle routes</td>
<td></td>
</tr>
<tr>
<td>ADVANCED TURF</td>
<td>Natural grassed surface, reinforced with plastic mesh elements with no visible surface structures</td>
<td>Occasional vehicular use</td>
<td>Fire access routes, Helipads, Event areas, Sculptured slopes</td>
<td></td>
</tr>
<tr>
<td>TRUCKPAVE (Grass)</td>
<td>Heavy duty recycled plastic porous paver for grass surfaces</td>
<td>Regular vehicular use</td>
<td>HGV yards, HGV access roads, Fire access routes, Coach parks, Car parks</td>
<td></td>
</tr>
<tr>
<td>TRUCKPAVE (Gravel)</td>
<td>Heavy duty recycled plastic porous paver for gravel retention and stabilisation</td>
<td>Frequent/Intensive vehicular use</td>
<td>HGV yards, HGV access roads, Fire access routes, Coach parks, Car parks</td>
<td></td>
</tr>
<tr>
<td>PATHMAT</td>
<td>Flexible plastic mesh for sand stabilisation</td>
<td>Occasional consecutive use</td>
<td>Beach access for Pedestrians/Wheelchairs</td>
<td></td>
</tr>
</tbody>
</table>

This product selector is for guidance only. Many variables affect the final determination of the suitability of a product and we would advise speaking to our technical sales team for further guidance. Product selection determined by application & site conditions.
TURFPROTECTA lightweight polyethylene mesh is used to reinforce grassed areas intended for very occasional/infrequent light vehicular or pedestrian use, and which are prone to wear and smearing. The grass can be mown, rolled and fertilised as usual during this period. The mesh soon becomes unobtrusive. TURFPROTECTA mesh can also be installed onto newly-landscaped areas and seeded as required.

It is strongly advised that installation is carried out during the growing season to allow the sward to knit with the mesh prior to allowing traffic to use the area. This would normally be after a few weeks during the growing season. Immediate use could restrict growth and limit the effectiveness of the installation.

TURFPROTECTA mesh is a source-control product for Sustainable Urban Drainage Systems (SUDS) and is a suitable alternative to impermeable paved surfaces where natural grassed traffic routes are preferred, or where planning restrictions are applied or cost savings are being considered.

TURFPROTECTA™ Turf Reinforcement Mesh

Permanent grassed paths, pedestrian areas, wheelchair access routes and infrequent-use car parks on firm, well-drained ground.

The Standard grade is suitable for:
- Paths
- Pedestrian areas
- Wheelchair access routes

The Heavy grade is suitable for:
- Access routes
- Occasional-use car parks

TURFPROTECTA mesh is simple to install. The sward grows through the mesh apertures and knits with the filaments to create a strong, discreetly reinforced surface which is capable of withstanding vehicle loads, limiting damage and helping to reduce compaction.
Newly landscaped installation using green TURFPROTECTA laid and covered with a layer of topsoil and seed.

After just a few weeks the grass grows through the mesh offering a strong stabilised surface.

Fixing Pins & Pegs

Steel U-pins or plastic pegs to secure TURFPROTECTA to the ground. Yellow marker pegs are available if required.

FIXING PIN & PEG PRODUCT DETAILS

<table>
<thead>
<tr>
<th>PRODUCT</th>
<th>SIZE (mm)</th>
<th>OUTER</th>
<th>MATERIAL</th>
<th>PART No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>U-pins</td>
<td>170 x 70 x 6 dia.</td>
<td>50 pack</td>
<td>Steel</td>
<td>041824</td>
</tr>
<tr>
<td>Black Pegs</td>
<td>140 long</td>
<td>100 pack</td>
<td>Recycled HDPE</td>
<td>060351</td>
</tr>
</tbody>
</table>

TURFPROTECTA PRODUCT DETAILS

<table>
<thead>
<tr>
<th>SIZE (m)</th>
<th>GRADE</th>
<th>COLOUR</th>
<th>MESH APERTURE (mm)</th>
<th>WEIGHT</th>
<th>MATERIAL</th>
<th>PART No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 x 30</td>
<td>Standard</td>
<td>Black</td>
<td>25 x 29</td>
<td>550g/m²</td>
<td>HDPE 100% Recycled</td>
<td>009862</td>
</tr>
<tr>
<td>2 x 30</td>
<td>Standard</td>
<td>Green</td>
<td>25 x 29</td>
<td>550g/m²</td>
<td>HDPE 100% Recycled</td>
<td>049202</td>
</tr>
<tr>
<td>2 x 30</td>
<td>Heavy</td>
<td>Black</td>
<td>22 x 27</td>
<td>660g/m²</td>
<td>HDPE 100% Recycled</td>
<td>048175</td>
</tr>
<tr>
<td>2 x 30</td>
<td>Heavy</td>
<td>Green</td>
<td>22 x 27</td>
<td>660g/m²</td>
<td>HDPE 100% Recycled</td>
<td>049967</td>
</tr>
</tbody>
</table>

Installation Service

Contact Fiberweb Geosynthetics for further information regarding our professional installation service.
GRASSPROTECTA™
Grass Reinforcement Mesh

Permanent grassed overflow car parks, residential parking, access routes, holiday park areas, verges and wheelchair access routes on firm, well-drained ground.

GRASSPROTECTA heavy-duty polyethylene mesh reinforces grassed surfaces prone to wear and smearing e.g. permanent car parking and heavily-used pedestrian areas. The oscillated mesh structure provides greater traction and significantly higher slip resistance when compared with standard mesh alternatives. GRASSPROTECTA mesh is available in two thicknesses: 14mm and 11mm.

**APPLICATIONS**

- **The Standard (11mm) grade is suitable for:**
  - Light-usage, overflow car parks
  - Wheelchair (DDA) access routes
  - Golf-buggy paths
  - Heavily-pedestrianised paths

- **The Heavy (14mm) grade is suitable for:**
  - Overflow car parks
  - Light-aircraft taxiways
  - Caravan sites and other holiday areas
  - Some equestrian surfaces
  - Verge stabilisation

**Benefits**

- High level of reinforcement – up to 8t per static axle load on firm ground
- Suitable for permanent applications
- Can accommodate shallow slopes
- Fast and cost-effective installation
- No excavation or soil removal is normally required
- Higher slip-resistance than standard mesh products

GRASSPROTECTA mesh is simple to install. The sward grows through the mesh apertures and knits with the filaments to create a strong, discreetly reinforced surface which is capable of withstanding vehicle loads, limiting damage and helping to reduce compaction by reducing direct contact with the soil surface. The grass can be mown, rolled and fertilised as normal during this period and the mesh soon becomes unobtrusive.

GRASSPROTECTA mesh can also be installed onto newly-landscaped areas and seeded as required. It is strongly advised that newly-installed areas remain untrafficked until the sward and the mesh have knitted - normally after a few weeks during the growing season, increasing to a few months out of season. Immediate use may restrict growth and limit the effectiveness of the installation.
GRASSPROTECTA mesh is a source-control solution for Sustainable Urban Drainage Systems (SUDS) and is a suitable alternative to impermeable, paved surfaces where occasional-used, natural-grassed, traffic routes are preferred, or where planning restrictions may be applied or cost savings are being considered.

### Fixing Pins & Pegs

Steel U-pins or plastic pegs to secure GRASSPROTECTA to the ground. Yellow marker pegs are available if required.

#### FIXING PIN & PEG PRODUCT DETAILS

<table>
<thead>
<tr>
<th>PRODUCT</th>
<th>SIZE (mm)</th>
<th>OUTER</th>
<th>MATERIAL</th>
<th>PART No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>U-pins</td>
<td>170 x 70 x 6 dia.</td>
<td>50 pack</td>
<td>Steel</td>
<td>041824</td>
</tr>
<tr>
<td>Black Pegs</td>
<td>140 long</td>
<td>100 pack</td>
<td>Recycled HDPE</td>
<td>060351</td>
</tr>
</tbody>
</table>

### Installation Service

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### GRASSPROTECTA PRODUCT DETAILS

<table>
<thead>
<tr>
<th>SIZE (m)</th>
<th>GRADE</th>
<th>COLOUR</th>
<th>MESH APERTURE (DIAMOND/OVAL)</th>
<th>SLIP RISK PTV VALUE</th>
<th>WEIGHT</th>
<th>THICKNESS</th>
<th>MATERIAL</th>
<th>PART No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 x 20</td>
<td>Standard</td>
<td>Green</td>
<td>3:1 Ratio</td>
<td>&gt;40 (low)</td>
<td>1.2kg/m²</td>
<td>11mm</td>
<td>Recycled/Virgin HDPE blend</td>
<td>055876</td>
</tr>
<tr>
<td>1 x 10</td>
<td>Standard</td>
<td>Green</td>
<td>3:1 Ratio</td>
<td>&gt;40 (low)</td>
<td>1.2kg/m²</td>
<td>11mm</td>
<td>Recycled/Virgin HDPE blend</td>
<td>055869</td>
</tr>
<tr>
<td>2 x 20</td>
<td>Heavy</td>
<td>Green</td>
<td>3:1 Ratio</td>
<td>&gt;40 (low)</td>
<td>2kg/m²</td>
<td>14mm</td>
<td>Recycled/Virgin HDPE blend</td>
<td>055470</td>
</tr>
<tr>
<td>1 x 10</td>
<td>Heavy</td>
<td>Green</td>
<td>3:1 Ratio</td>
<td>&gt;40 (low)</td>
<td>2kg/m²</td>
<td>14mm</td>
<td>Recycled/Virgin HDPE blend</td>
<td>055852</td>
</tr>
<tr>
<td>1.2 x 2</td>
<td>Heavy</td>
<td>Green</td>
<td>3:1 Ratio</td>
<td>&gt;40 (low)</td>
<td>2kg/m²</td>
<td>14mm</td>
<td>Recycled/Virgin HDPE blend</td>
<td>056170</td>
</tr>
</tbody>
</table>

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Free technical seminars can be arranged to suit your specific area of interest in our product range. Please contact us for further details.
BODPAVE™40
Porous Pavers

BODPAVE 40 porous grass pavers are an interlocking cellular paving grid system for grass and ground reinforcement applications where there is regular pedestrian or vehicle use. BODPAVE 40 permeable paving grids allow full rainwater penetration and are manufactured from UV stabilised 100% recycled HDPE, in black or green. BODPAVE 40 pavers are strong, chemically inert & non-toxic, enabling them to provide a durable, safe & sustainable eco-friendly surface for trafficked areas.

APPLICATIONS

- Car parks
- Emergency access routes
- Aircraft taxiways & helipads
- Wheelchair and disabled access
- Pedestrian walkways
- Golf buggy paths
- SUDS source control

BODPAVE 40 grass pavers are a cost effective solution to worn and rutted grassed areas, displaced gravel and for source control of surface water run-off. Designed to be installed onto a well prepared, free-draining and relatively even surface using either Terram ‘Reduced-Dig System’ or by employing a full sub-base construction incorporating a geogrid reinforcement layer. The paving grids simply connect together and are filled with either a sand : soil rootzone and seeded or turfed providing a visually pleasant and stable surface structure through which grass can be grown, or filled with an angular gravel for use as a gravel retention reinforcement surface. Construction profiles for each application will be determined by the specific site conditions & loading criteria. Detailed design literature and technical support are downloadable from www.terram.com.
BODPAVE 40’s open cell structure allows unrestricted healthy grass root growth and water infiltration and can be used as part of a Sustainable Urban Drainage Systems (SUDS). The paver grids also incorporate 25mm ‘ground-spikes’ on the base which fix through the adjacent paving grid’s edge-loops to provide the entire structure with firm anchorage and structural integrity.

Not all layers will apply to every application and drainage may be required. Please refer to Fiberweb’s design guidance documents.

**TYPICAL PROFILE**

**BODPAVE 40**

- Grasped or retained angular gravel surface
- Terram Geotextile filter fabric (e.g. T1000)
- Tensar TriAx™ TX160 geogrid option
- Subgrade soil
- DoT reduced fines ‘Type 3’ sub-base

**Gravel option profile example**

- Gravel option: 50mm thick bedding layer of angular aggregate within the range of 4mm-15mm (BS EN 13242)
- Gravel option: BODPAVE 40 pavers filled with angular aggregate of 4mm-15mm (BS EN 13242)
- Drainage options: Type 3 (open graded) or 4/40 sub-base layer for SUDS design

**Grass option profile example**

- Grassed option: BODPAVE 40 pavers filled to within 5-7mm of the surface with 60:40 rootzone then seeded and fertilised
- Drainage options: 50mm thick consolidated bedding layer 60:40 sand:soil rootzone

**BODPAVE 40 PRODUCT DETAILS**

<table>
<thead>
<tr>
<th>PAVER SIZE (mm)</th>
<th>QUANTITY (per m²)</th>
<th>WEIGHT (Nominal)</th>
<th>LOAD BEARING CAPACITY</th>
<th>MATERIAL</th>
<th>COLOUR</th>
<th>PART NO.</th>
</tr>
</thead>
<tbody>
<tr>
<td>500 x 500 x 40</td>
<td>4 Grids</td>
<td>4.8kg/m²</td>
<td>150tonnes/m²</td>
<td>100% Recycled Polyethylene</td>
<td>Black</td>
<td>151516</td>
</tr>
<tr>
<td>500 x 500 x 40</td>
<td>4 Grids</td>
<td>4.8kg/m²</td>
<td>150tonnes/m²</td>
<td>100% Recycled Polyethylene</td>
<td>Green</td>
<td>113804</td>
</tr>
</tbody>
</table>

*Each paver includes a 25mm integral ground spike*

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BODPAVE™85 Porous Pavers

Permanent grassed or gravel car and coach parking, fire access routes, helipads, taxiways, cycle paths, driveways, access roads and other trafficked areas where a structurally-sound, well drained base is present or will be installed.

BODPAVE 85 is an interlocking cellular porous paving system for ground reinforcement which can be installed with either a grass or gravel filled surface. The design of BODPAVE 85 pavers allows them to positively interlock with each other and resist shear. Once filled, they provide a high level of load-bearing performance. They are laid on a free-draining base and can be filled with either gravel for immediate frequent/ intensive use, or with a seeded sand/ soil to establish a grassed surface for occasional consecutive use. Both options mean that the resulting pavement is porous and in sympathy with the environment.

Note: a grassed surface may not be suitable for every application.

The unique BODPAVE 85 design resists lateral movement whilst accommodating expansion and contraction, promotes surface traction and stability and encourages grass growth by protecting the roots.

APPLICATIONS (Grass or Gravel)

- Car / coach parks
- Emergency / HGV service access routes
- Aircraft taxiways & helipads
- Walkways and disabled access
- Golf buggy paths
- Driveways & residential parking
- SUDS source control

BODPAVE 85 is suitable for grassed surfaces, gravel retention and SUDS source control applications.
SYSTEM FEATURES:
- Natural grass or gravel surface options
- High load-bearing capacity up to 400t/m² when gravel filled
- 92% open surface structure - SUDS source-control compliant
- Can accommodate inclines up to 1.8 / 12% / 7° and localised gradient changes
- No pinning required except on excessive gradients
- Accelerated installation with 1m x 1m panels (four pre-connected pavers supplied as standard)
- Environmentally friendly and aesthetically pleasing
- Suitability for hot and cold climates due to expansion/contraction capability
- Less wastage as pavers can be incrementally off-set connected to accommodate curves/obstructions
- Non-toxic and chemically inert to the chemicals naturally found in soils
- Manufactured in the UK using recycled HDPE (black and green) with additional UV stabilisation. Natural colour is manufactured from virgin HDPE

TYPICAL PROFILE

Open cell structure promotes optimum grass growth
Cells contain water retention cups to optimise root growth
Integral interlocking ‘snap-fit’ connections on 500mm x 500mm grids
Integral ground spikes resist deformation & lateral movement
Castellations aid lateral grass growth and increase traction
Pavers can be offset by one cell increments for curves/obstructions

BODPAVE 85 natural (white) pavers installed for a domestic driveway application
Filled with angular gravel creating an attractive reinforced permeable surface that retains the gravel
A Tensar TriAx™ TX160 grid should be included beneath the sub-base layer to reduce the total design thickness.

The panels (a pre-assembly of four pavers) connect together simply, ready to be filled with a sand:soil rootzone and seeded for a grass surface, or filled with an angular gravel as determined by the application. The construction profile for each application will be as a result of site-specific conditions and the service-life-loading criteria. Design and technical support documents are available to download freely from www.terram.com.

All BODPAVE 85 installations must be provided with sufficient and adequate drainage in order to function as intended. Failure to do this may compromise performance.

**TENSAR TRIAX TX160 DETAILS**

<table>
<thead>
<tr>
<th>ROLL SIZE</th>
<th>NOMINAL UNIT WEIGHT</th>
<th>MATERIAL</th>
<th>PART NO.</th>
</tr>
</thead>
<tbody>
<tr>
<td>4mx75m</td>
<td>69kg</td>
<td>PP</td>
<td>058556</td>
</tr>
</tbody>
</table>

**BODPAVE 85 PRODUCT DETAILS**

<table>
<thead>
<tr>
<th>*PAVER SIZE (mm)</th>
<th>NOMINAL CELL SIZE (mm)</th>
<th>QUANTITY (per m²)</th>
<th>WEIGHT (Nominal)</th>
<th>LOAD BEARING CAPACITY</th>
<th>MATERIAL</th>
<th>COLOUR</th>
<th>PART NO.</th>
</tr>
</thead>
<tbody>
<tr>
<td>500 x 500 x 50</td>
<td>67 Plaque &amp; 46 round</td>
<td>4 Grids</td>
<td>6.24kg/m²</td>
<td>400tonnes/m²</td>
<td>Recycled Polyethylene</td>
<td>Black</td>
<td>057580</td>
</tr>
<tr>
<td>500 x 500 x 50</td>
<td>67 Plaque &amp; 46 round</td>
<td>4 Grids</td>
<td>6.24kg/m²</td>
<td>400tonnes/m²</td>
<td>Recycled Polyethylene</td>
<td>Green</td>
<td>059447</td>
</tr>
<tr>
<td>500 x 500 x 50</td>
<td>67 Plaque &amp; 46 round</td>
<td>4 Grids</td>
<td>6.24kg/m²</td>
<td>400tonnes/m²</td>
<td>Virgin Polyethylene</td>
<td>Natural</td>
<td>059430</td>
</tr>
</tbody>
</table>

*Each paver includes a 35mm integral ground spike

**MARKING BAYS WHEN USING BODPAVE 85 PAVERS**

Plastic markers are available for marking bays within areas of BODPAVE 85 paving. The markers are designed to clip positively into the plaque-shaped cells and can be fitted in various orientations to create solid/dotted lines and T or L shapes, etc, for parking bay heads, aisles and junctions.

They can be permanently fixed in place by applying a suitable high-strength adhesive or an outdoor-frame sealant to the underside of the markers. If required, the markers can be reduced in size to create single-cell or double-cell-sized units by cutting accurately along the lines between each textured square/pyramidal section. It is recommended that these cut units are bonded in place to resist displacement.

**LINE MARKER DETAILS**

<table>
<thead>
<tr>
<th>COLOUR</th>
<th>SIZE (mm)</th>
<th>MATERIAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>White</td>
<td>215 x 70</td>
<td>HDPE</td>
</tr>
<tr>
<td>Yellow</td>
<td>215 x 70</td>
<td>HDPE</td>
</tr>
</tbody>
</table>

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ADVANCED TURF comprises of a sand:soil rootzone into which thousands of small interlocking mesh elements have been pre-blended and when installed it is supplied with a selected turf finish. As the grass roots develop they penetrate through the mesh to form a deep-anchored root system and a very stable rootzone. The result is a free-draining natural grass surface with high load-bearing capabilities and no visible surface structures.

Permanent fire access routes and occasionally-used HGV routes, helipads, sculptured slopes, walkways and occasionally but intensively used event areas. No visible surface structures.

ADVANCED TURF® Reinforced Rootzone System

**APPLICATIONS**
- Fire service access roads
- Overspill parking
- Helipads/airfields
- Slopes up to 50°
- Source control for SUDS
- Sports fields
- Amenity areas
- Event areas
- Walkways
- Verges

**BENEFITS**
- Safe, attractive, natural grass surface
- High load-bearing capabilities including HGV’s
- Resists rutting and compaction
- Good surface drainage
- No visible surface structure or trip hazards
ADVANCED TURF is supported by over a decade of civil engineering and turf grass research. There are more than 44 published research papers.

ADVANCED TURF System

Typical Profile - Thicknesses to be determined by application. Refer to technical guidance.

Without ADVANCED TURF rutting can occur as loads are not distributed efficiently.

* copies of research studies available on request

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Advanced Turf® and Netlon® are registered trademarks of Conwed Plastics nv.

*There are more than 44 published research papers for Advanced Turf®. A summary list and specific copies are available on request.

The information on this page is of an illustrative nature and is supplied without charge. It does not form part of any contract with the user. Final determination of the suitability of any information or material for the use contemplated and the manner of the use is the sole responsibility of the user and the user must assume all risk and liability in connection therewith.
Manufactured from recycled plastic, TRUCKPAVE cellular paving is robust, durable and capable of withstanding all levels of traffic up to and including coaches, dustcarts and HGVs. TRUCKPAVE’s cells can be filled with either grass seed/topsoil or gravel, making them suitable for stabilising areas where a grass or stone surface is desirable. TRUCKPAVE pavers are the economic, environmentally-friendly and lightweight alternative to concrete grass concrete-type pavers.

APPLICATIONS
- Lorry, coach and car parks
- Emergency fire access roads
- HGV service access roads
- Road widening
- Grass verges, including where HGV overrun occurs
- Footpaths
- Service yards and other areas where forklift trucks operate
- Lay-bys
- Loading areas

BENEFITS
- TRUCKPAVE 80 and TRUCKPAVE 100 comply with the HSE manual-handling limit (concrete units exceed this limit)
- TRUCKPAVE 80 has tongue and groove interlocking for additional stability
- Meets SLW60 load category - vehicles up to 60t gross weight, 10t wheel load
- Flexible and resistant to cracking unlike concrete alternatives
- Because of its insulating qualities, plastic achieves greatly improved volume and quality of grass compared to concrete units
- High compressive strength
- TRUCKPAVE 100 is available with anti-skid surface detail for additional traction on gradients
- Pavers do not transfer heat and dry out soil infill
- Harmless to plants and animals
- Environmentally friendly - manufactured from recycled plastics

Permanent grassed or gravel HGV access roads, HGV yards, fire access routes, coach parks and car parks where a structurally-sound, well drained base is to be installed.
TRUCKPAVE pavers should be installed onto a well-prepared, free-draining, firm and relatively-level stone sub-base (a reduced-fines Type 3 for example). As an option a Tensar Triax TX160 geogrid at the base of this layer will allow a reduction in the sub-base depth. The sub-base is overlaid with a Terram geotextile filter/separator (e.g. T1000) followed by 20mm of coarse sand as a bedding layer for the pavers.

Once laid, the paver cells can be filled with a free-draining angular stone (e.g. 10mm gravel) or a good quality friable top soil and grass seed at 30/40 g/m². The cells should not be overfilled so remove excess topsoil or stone from the surface. The topsoil settlement that will occur within the paver cells is desirable as this will allow grass growth without direct impact from traffic.

Perimeter pavers should be restrained using pinned timber sleepers or precast kerbs. The pavers can be cut with a hand saw or power cutter for fitting around obstructions. The whole area should be compacted with either a plate vibrator or a small roller. For large TRUCKPAVE installations with full edge restraint to all sides it may be advisable to allow for expansion due to fluctuations in temperature. Please contact our technical sales team for advice on this or any other issues relating to design and installation of the pavers.

### TRUCKPAVE PRODUCT DETAILS

<table>
<thead>
<tr>
<th>PRODUCT</th>
<th>DIMENSIONS (mm) [l x w x d]</th>
<th>WEIGHT (kg)</th>
<th>UNITS (m²)</th>
<th>UNITS/PALLET</th>
<th>COLOUR</th>
<th>PART NO.</th>
</tr>
</thead>
<tbody>
<tr>
<td>TRUCKPAVE 80</td>
<td>600 x 400 x 80</td>
<td>9</td>
<td>4.17</td>
<td>80 No (19.18/m²)</td>
<td>Grey</td>
<td>143412</td>
</tr>
<tr>
<td>TRUCKPAVE 80 with anti-skid surface</td>
<td>600 x 400 x 80</td>
<td>9</td>
<td>4.17</td>
<td>80 No (19.18/m²)</td>
<td>Grey</td>
<td>143634</td>
</tr>
<tr>
<td>TRUCKPAVE 100</td>
<td>600 x 400 x 100</td>
<td>12</td>
<td>4.17</td>
<td>60 No (14.39/m²)</td>
<td>Grey</td>
<td>142880</td>
</tr>
<tr>
<td>TRUCKPAVE 100 with anti-skid surface</td>
<td>600 x 400 x 100</td>
<td>12</td>
<td>4.17</td>
<td>60 No (14.39/m²)</td>
<td>Grey</td>
<td>143450</td>
</tr>
</tbody>
</table>

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Free technical seminars can be arranged to suit your specific area of interest in our product range. Please contact us for further details.
Terram GEOCELL tree-root protection is a cellular-confinement system fabricated from a permeable geotextile and is designed as an acceptable solution for tree-root protection where a road, access route or driveway is required. See Arboricultural Advisory and Information Services APN12: Driveways close to trees.

The system confines the sub-base, stabilises the ground and ensures that the roots beneath are protected from vehicle loads whilst still being able to breathe and obtain moisture and nutrients.

A Terram GEOCELL is supplied as flat packed panels which are opened to form the characteristic honeycomb structure. These are positioned and pinned to the ground using J shaped metal pins and filled with a suitable, permeable fill. The geocell confines the fill and ensures that downward forces are spread laterally reducing loads on the underlying soils. Without the cellular system, the surface would become rutted and compacted with the traffic loads damaging the tree roots and potentially resulting in the death of the tree.

Once filled, the geocell can be trafficked but it is not intended to be a permanent surface solution unless it is paved e.g. with BODPAVE 85 pavers.

A Terram GEOCELL may be used as a temporary expediency e.g. when access to a site is limited by the presence of tree roots. On completion, the geocell can be removed, with the ground left undamaged, or paved with an appropriate surfacing.

A geocell is the ideal solution for tree-protection areas. The tough permeable fabric allows water and oxygen to penetrate through to the roots.

APPLICATIONS
- Permanent woodland trails
- Paths
- Driveways
- Roads
- Access routes
- Parking areas
TYPICAL PROFILE

BODPAVE 85
with Grass & Gravel

Terram geotextile filter fabric (e.g. T1000)

Tensar TriAx TX160 geogrid. Option

Terram geotextile filter fabric. (e.g. T1000) Option

Sub-grade

Typical profile showing various product layers. Not all layers will apply to every application and are optional.

Metal Fixing Pins

Metal fixing pins can be used to fix the cells to the ground.

<table>
<thead>
<tr>
<th>PRODUCT</th>
<th>SIZE (mm)</th>
<th>MATERIAL</th>
<th>PART No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>J-pins</td>
<td>550 long x 8 dia.</td>
<td>Steel rod</td>
<td>051038</td>
</tr>
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</table>

GEOCELL PRODUCT DETAILS

<table>
<thead>
<tr>
<th>PRODUCT</th>
<th>PANEL SIZE (m)</th>
<th>CELL Dia &amp; DEPTH (mm)</th>
<th>PANEL WEIGHT</th>
<th>GROUND REINFORCEMENT LOAD CAPACITY</th>
<th>MATERIAL</th>
<th>PART No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOCELL 25/15</td>
<td>5 x 7</td>
<td>250 dia. x 150</td>
<td>25kg</td>
<td>Light Vehicles</td>
<td>Non-woven PP/PE</td>
<td>082148</td>
</tr>
<tr>
<td>GEOCELL 22/20</td>
<td>6 x 3</td>
<td>220 dia. x 200</td>
<td>20kg</td>
<td>Heavy Vehicles</td>
<td>Non-woven PP/PE8e</td>
<td>082056</td>
</tr>
</tbody>
</table>

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GEOCELL PRODUCT DETAILS

**GROUND REINFORCEMENT LOAD CAPACITY**

<table>
<thead>
<tr>
<th>PRODUCT</th>
<th>PANEL SIZE (m)</th>
<th>CELL Dia &amp; DEPTH (mm)</th>
<th>PANEL WEIGHT (kg)</th>
<th>MATERIAL</th>
<th>PART No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOCELL 25/10</td>
<td>5 x 7</td>
<td>250 dia. x 100</td>
<td>17</td>
<td>Pedestrian Loads (Non-woven PE/PP)</td>
<td>082094</td>
</tr>
<tr>
<td>GEOCELL 25/15</td>
<td>5 x 7</td>
<td>250 dia. x 150</td>
<td>25</td>
<td>Light Vehicles (Non-woven PE/PP)</td>
<td>082148</td>
</tr>
<tr>
<td>GEOCELL 35/10</td>
<td>5 x 7</td>
<td>350 dia. x 100</td>
<td>11</td>
<td>N/A</td>
<td>082063</td>
</tr>
<tr>
<td>GEOCELL 35/15</td>
<td>5 x 7</td>
<td>350 dia. x 150</td>
<td>17</td>
<td>N/A</td>
<td>082124</td>
</tr>
<tr>
<td>GEOCELL 22/20</td>
<td>6 x 3</td>
<td>220 dia. x 200</td>
<td>20</td>
<td>Heavy Vehicles (Non-woven PE/PP)</td>
<td>082056</td>
</tr>
</tbody>
</table>

**APPLICATIONS**

- Cut or fill embankments
- Dams or spillways
- Revetments
- Abutment protection
- Geomembrane protection
- Soil-nailing cover
- Landfill lining

Terram GEOCELL is a relatively shallow cellular confinement system which is used to combat erosion on slopes up to 1:1. The geocell is fabricated using a geotextile so it is permeable and allows water to flow between cells encouraging drainage and vegetation. It is supplied as compact man-handleable panels ready to be expanded on site to 5m x 7m or 6m x 3m areas with a honeycomb of diamond-shaped cells that are 100mm, 150mm or 200mm deep.

Once placed and secured on the slope, the geocell can be filled with soil or a mineral fill. The result is that the confined fill is able to better resist the erosive effects of wind and run-off. The expanded panels should be fixed at every perimeter cell and at 1m centres throughout using steel fixing pins.

The geocell is flexible enough to be formed around trees and other obstacles.

Seeded topsoil is the most suitable fill for less-exposed slopes, with small shrubs offering improved protection, whilst a granular material offers the highest protection.

**Metal Fixing Pins**

Metal fixing pins can be used to fix the cells to the ground.

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Free technical seminars can be arranged to suit your specific area of interest in our product range. Please contact us for further details.
GRASSCARPET is an ideal covering for wet and muddy grass: Garden parties, weddings, exhibitions and concerts
Marquee flooring and paths
Temporary car parks and wheelchair access routes
Temporary pedestrian and vehicle access routes

With the mesh laid face down on the ground and the geotextile upwards: the composite GRASSCARPET provides a clean, stable and safe surface for pedestrians, whilst protecting the grass from damage.

With the geotextile laid face down on the ground and the mesh upwards: the composite GRASSCARPET stabilises the grass surface to resist deformation and pumping-up of mud during temporary vehicle access.

GRASSCARPET PRODUCT DETAILS

<table>
<thead>
<tr>
<th>SIZE</th>
<th>WEIGHT</th>
<th>CBR PUNCTURE RESISTANCE</th>
<th>MATERIAL (CARPET)</th>
<th>MATERIAL (MESH)</th>
<th>PART NO.</th>
</tr>
</thead>
<tbody>
<tr>
<td>2m x 20m</td>
<td>2.4kg/m²</td>
<td>3.3kN</td>
<td>Polypropylene</td>
<td>Part-recycled HDPE</td>
<td>052097</td>
</tr>
</tbody>
</table>

The GRASSCARPET mesh is manufactured using part-recycled high density polyethylene (HDPE) and it is formulated to provide slip resistance.

GRASSCARPET composite is an ideal covering for wet and muddy grass:
- Garden parties, weddings, exhibitions and concerts
- Marquee flooring and paths
- Temporary car parks and wheelchair access routes
- Temporary pedestrian and vehicle access routes

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Flexible surfacing for temporary or permanent access over soft sand surfaces and beach access.

TERRAM PATHMAT beach access mat is a flexible surface stabilisation for permanent or temporary access applications over soft sand surfaces. Utilising the proven oscillated mesh design ensures that rigidity and strength are preserved, providing a reinforced stable surface. Manufactured from a UV stabilised elastomeric polymer, PATHMAT is able to contour to undulating surfaces and provides a barefoot friendly surface for beach goers and is suitable for wheelchair access. Wherever a water pervious, enhanced-grip walkway access is required, PATHMAT beach access mat is the solution.

APPLICATIONS

- Lightweight and easy to install. Two people can install a 1.56m x 10m section in just 10 minutes.
- The elastomeric material provides safe edges
- The blue color provides highly visible access route to recreation areas.
- Easily cleaned by using a broom, blower or pressure washer.

BENEFITS

- Portable and easily removable rollout beach mat
- Pedestrian and wheelchair accessible
- Adapts smoothly to contoured surfaces
- Slip resistant surface providing a safe surface in wet conditions
- Visually attractive design guides guests to desired locations

PATHMAT PRODUCT DETAILS

<table>
<thead>
<tr>
<th>ROLL SIZE</th>
<th>WEIGHT</th>
<th>ROLL WEIGHT</th>
<th>COLOUR</th>
<th>MATERIAL</th>
<th>PART NO.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.56m x 10m</td>
<td>4kg/m²</td>
<td>62.5kg</td>
<td>Blue</td>
<td>Elastomeric PE Blend</td>
<td>118380</td>
</tr>
</tbody>
</table>

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Free technical seminars can be arranged to suit your specific area of interest in our product range. Please contact us for further details.
BODMAT flexible surfacing is manufactured using an elastomeric polymer which means that it is extremely robust and durable. Its mesh structure means that it is highly permeable and this makes it ideal for external applications.

BODMAT flexible surfacing can also be used in animal boxes where it grips the floor and provides a relatively soft surface that can be lifted and cleaned.

**APPLICATIONS**
- Walkways and paths
- Grass play areas
- Beach access, parks and picnic areas
- Event flooring
- Horseboxes and animal boarding areas
- Easily cut to shape/size and flexible to adapt to contoured surfaces
- Wheelchair and pushchair friendly
- Ideal for both pedestrians and animals
- Allows grass to grow through the mesh apertures
- Durable and permeable
- Critical Fall Height (CFH) 1.8m (BS EN 1177:1988)

**BODMAT PRODUCT DETAILS**

<table>
<thead>
<tr>
<th>ROLL SIZE</th>
<th>WEIGHT</th>
<th>MESH THICKNESS</th>
<th>COLOUR</th>
<th>MATERIAL</th>
<th>PART NO.</th>
</tr>
</thead>
<tbody>
<tr>
<td>2m x 10m</td>
<td>3.6kg/m²</td>
<td>13.5mm</td>
<td>Black</td>
<td>Elastomeric Blend</td>
<td>065622</td>
</tr>
</tbody>
</table>

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Free technical seminars can be arranged to suit your specific area of interest in our product range. Please contact us for further details.
Terram SAFETY RUBBER MATS are environmentally friendly, slip resistant and impact absorbing. They are ideal for children’s play areas: around most multi-function play frames, springers, swingers, fitness/ fun trails and pathways. The rubber mats are placed onto existing grass areas and secured to the ground. The grass sward grows through the mat’s apertures.

If the area is prone to being wet and soft then it is best to first stabilise the area with TURFPROTECTA Standard mesh. Otherwise the Safety Rubber Mats are placed directly over the area and secured using plastic pegs with the mat edges coupled together using cable ties (suitable pegs and ties are available to purchase). See the full Specification, Design and Installation Guidance Note which can be downloaded from www.terram.com.

Terram SAFETY RUBBER MATS are permanent impact absorbing, slip resistant permeable matting for play areas, fitness/ fun trails and pathways.

SAFETY RUBBER MAT
Play area safety

Permanent impact absorbing, slip resistant permeable matting for play areas, fitness/ fun trails and pathways.

Tested by RAPRA to BS EN 1177:1998
3m Critical Fall Height (CFH)
Can be used on flat or contoured grass surfaces
Unobtrusive once the sward has grown
Wheelchair and pushchair accessible
Absorbs shock and noise
Excellent durability
Slip resistant
Resist wind uplift once secured correctly
Apertures allow for drainage to leave the surface dry
Requires no special skills or tools to install
No costly base works unlike conventional tiles or wet-pour, rubber surfacing

Check the suitability of this product prior to installation as the CFH value will be affected by soil type, moisture and grass cover.

SRM PRODUCT DETAILS

<table>
<thead>
<tr>
<th>MAT SIZE</th>
<th>WEIGHT</th>
<th>THICKNESS</th>
<th>COLOUR</th>
<th>MATERIAL</th>
<th>PART NO.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1m x 1.5m</td>
<td>12.5kg</td>
<td>22mm</td>
<td>Black</td>
<td>Recycled Rubber</td>
<td>052103</td>
</tr>
</tbody>
</table>

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Free technical seminars can be arranged to suit your specific area of interest in our product range. Please contact us for further details.
Terram non-woven standard geotextiles deliver separation and filtration. They are resistant to all naturally occurring soil acids and alkalis and is unaffected by biological contaminants such as bacteria or fungi.

Terram geotextiles are important to use in paving construction particularly for installations involving BODPAVE 85 porous ground reinforcement paving grids - for grass or gravel surfaces in applications including car parks, access roads and pavements.

Terram geotextiles (e.g. T1000) allows full water penetration whilst separating fine material (soil/sand) from larger material and offers essential ground stabilisation. The geotextile fabric can be used in conjunction with a geogrid to further improve sub-base performance.

GEOTEXTILE PRODUCT DETAILS

<table>
<thead>
<tr>
<th>PRODUCT</th>
<th>SIZE</th>
<th>CBR PUNCTURE RESISTANCE (MEAN PEAK STRENGTH)</th>
<th>TENSILE STRENGTH</th>
<th>MATERIAL</th>
<th>PART NO.</th>
</tr>
</thead>
<tbody>
<tr>
<td>T1000</td>
<td>4.5m x 100m</td>
<td>1500N</td>
<td>8kN/m</td>
<td>Non woven PE/PP</td>
<td>149292</td>
</tr>
<tr>
<td>Mini Roll</td>
<td>2.25m x 25m</td>
<td>1275N</td>
<td>7.2kN/m</td>
<td>Non woven PE/PP</td>
<td>079858</td>
</tr>
<tr>
<td>T900 Minipak</td>
<td>4.5m x 11.1m</td>
<td>1350N</td>
<td>7.5kN/m</td>
<td>Non woven PE/PP</td>
<td>080120</td>
</tr>
</tbody>
</table>

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Free technical seminars can be arranged to suit your specific area of interest in our product range. Please contact us for further details.
TERRAM ROOTGUARD and TERRAM ROOTGUARD PLUS are used to protect buildings, walls, paths, drainage pipes, cables and lawns from potential damage caused by root development.

Tree roots grow very close to the surface and are the cause of considerable damage. Structures with shallow foundations can be undermined. Damaged pipes, or pipes with faulty joints can become blocked by roots. Root growth is also known to cause desiccation of soils to the extent that soil shrinkage can result in parts of the foundation no longer being supported. When this occurs structures may subside and crack, and in these circumstances expensive underpinning may be the only solution.

The choice of TERRAM ROOTGUARD product will depend upon the application, specifically whether water needs to pass through the product:

**TERRAM ROOTGUARD - permeable solution**

In some instances it may be necessary to have a water-permeable solution e.g. surrounding land drains. Although some permeable barriers may not provide the highest level of protection (see TERRAM ROOTGUARD PLUS), they still provide excellent resistance.

**TERRAM ROOTGUARD PLUS - impermeable solution**

Research has demonstrated that high-density polyethylene (HDPE) can withstand penetration by even the most vigorous of tree roots. TERRAM ROOTGUARD PLUS - a composite of TERRAM ROOTGUARD and an HDPE membrane is the choice when there is no requirement for water to pass through the barrier. This product will provide the greatest degree of protection.

Both products are chemically inert to natural soil conditions and resistant to biodegradation.

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**TERRAM ROOTGUARD PRODUCT DETAILS**

<table>
<thead>
<tr>
<th>PRODUCT</th>
<th>ROLL SIZE (m)</th>
<th>WEIGHT (g/m²)</th>
<th>CBR PUNCTURE RESISTANCE</th>
<th>COLOUR</th>
<th>MATERIAL</th>
<th>PART NO.</th>
</tr>
</thead>
<tbody>
<tr>
<td>TERRAM ROOTGUARD</td>
<td>2.25 x 25</td>
<td>260</td>
<td>3250N</td>
<td>Black</td>
<td>Non Woven PE/PP</td>
<td>081257</td>
</tr>
<tr>
<td>TERRAM ROOTGUARD PLUS</td>
<td>2 x 25</td>
<td>275</td>
<td>2550N</td>
<td>Black</td>
<td>Non Woven PP HDPE coated</td>
<td>081127</td>
</tr>
</tbody>
</table>

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Free technical seminars can be arranged to suit your specific area of interest in our product range. Please contact us for further details.
Terram WEEDGUARD is proven for suppressing weeds in landscaping and garden applications without the need for chemicals. This geotextile is designed to allow the passage of water, oxygen and nutrients while blocking weeds. Terram WEEDGUARD is installed at the interface between soil and a decorative layer such as bark chippings, stone chippings, pebbles or gravel.

The geotextile is unobtrusive grey, easy to cut, does not fray, simple to position, flexible to adapt to uneven ground and can be secured using plastic pegs available from Fiberweb Geosynthetics.

Terram WEEDGUARD is supplied in roll sizes to suit small gardens to large landscape project:

For Fixing Pins & Pegs see page 9

WEEDGUARD PRODUCT DETAILS

<table>
<thead>
<tr>
<th>ROLL SIZE (m)</th>
<th>WEIGHT</th>
<th>CBR PUNCTURE RESISTANCE</th>
<th>COLOUR</th>
<th>MATERIAL</th>
<th>PART NO.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 x 10</td>
<td>90g/m²</td>
<td>1000N</td>
<td>Dark Grey</td>
<td>Non Woven PE/PP</td>
<td>078554</td>
</tr>
<tr>
<td>2.25 x 25</td>
<td>90g/m²</td>
<td>1000N</td>
<td>Dark Grey</td>
<td>Non Woven PE/PP</td>
<td>078776</td>
</tr>
<tr>
<td>2.25 x 50</td>
<td>90g/m²</td>
<td>1000N</td>
<td>Dark Grey</td>
<td>Non Woven PE/PP</td>
<td>078769</td>
</tr>
</tbody>
</table>

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Free technical seminars can be arranged to suit your specific area of interest in our product range. Please contact us for further details.
Permanent blended aggregate/rootzone load-bearing sub-base for the support and sustainability of grass fire lanes, car parks and access roads.

ROOTSTONE is an engineered load-bearing sub-base for the support and sustainability of grass fire lanes, car parks and access roads. ROOTSTONE is supplied as a pre-blended aggregate and selected compost mix. It can be produced to comply with the emergency access route requirements of Building Regulations 1991, BS section 17, whilst at the same time, providing 100% sustainable grass cover.

ROOTSTONE is laid in lieu of the conventional dual lay of sub-base and rootzone, resulting in major savings in labour and excavation costs.

**BASE SPECIFICATIONS AND PREPARATION**

Base specifications and preparation are dependent on soil type and strength of the sub-base on each site. Consequently the design must be tailored for each individual project, for which guidance is available. We are also able to advise on contractors who would be pleased to undertake the entire project.

**TYPICAL PROFILE**

ROOTSTONE eliminates the need for a rootzone bedding layer while improving grass growth potential.

**BENEFITS**

- Reduces construction layer thickness
- Reduces excavation with consequent savings on labour and disposal costs
- Provides 100% grass coverage
- SUDs compliant
- Can be used in conjunction with geogrids on weak grounds and TERRAM Geocells for load bearing support for the protection of tree roots

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A leader in material technology applications

By intelligently applying our high-performance fibre technology we are helping industry solve its most complex material challenges, and providing our customers with the answers they will need tomorrow.

THE NEXT ANSWER

Further literature

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- Highways
- Railways
- Landfill
- Pipeline & Utilities
- Forestry & Landscaping
- Fruit & Viticulture

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Fiberweb Maldon, Fiberweb Geosynthetics Limited
Blackwater Trading Estate • The Causeway
Maldon • Essex CM9 4GG • United Kingdom
Tel: +44 (0) 1621 874200
Fax: +44 (0) 1621 874299
email: info@terram.com
www.terram.com

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