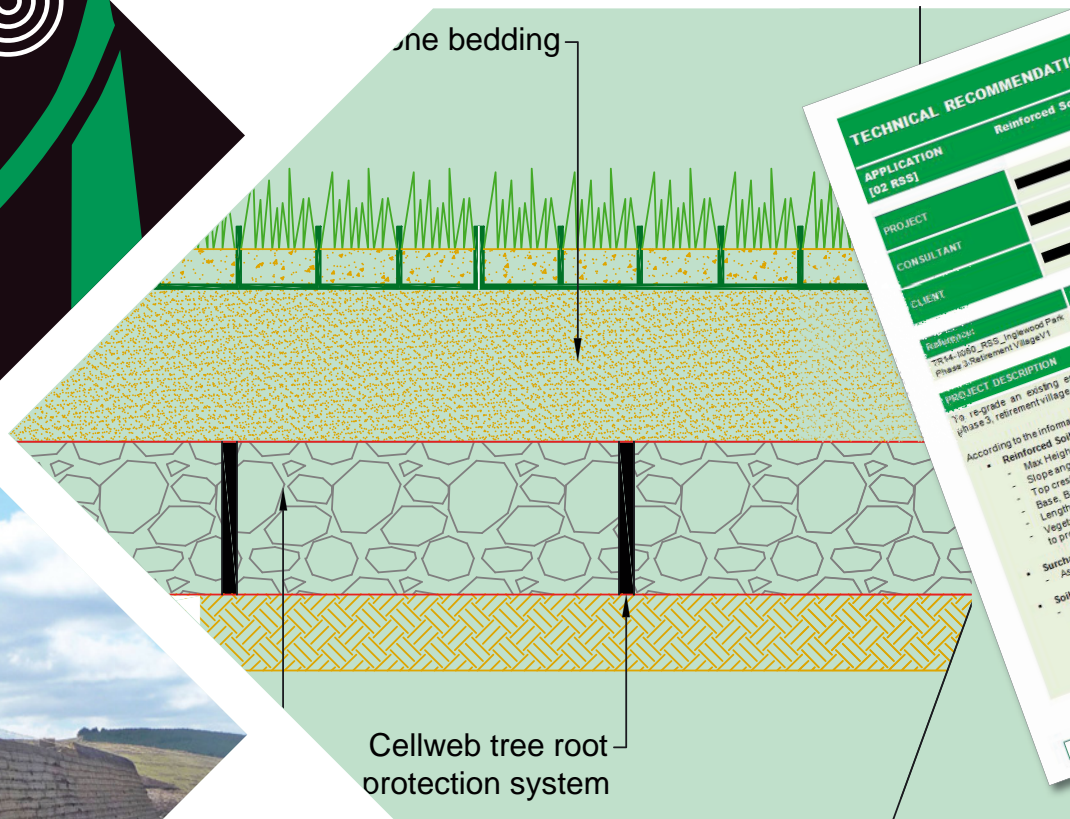




Geosynthetics

company profile

about us



Geosynthetics Limited is a successful, dynamic and creative business. Since its incorporation in 1998 the company has grown rapidly into the largest independent geosynthetics supplier in the UK.

The company has earned an excellent reputation for providing high quality products and excellent levels of customer service, all of which are cornerstones of the company's commitment to its customers. Geosynthetics Limited now has stock worth in excess of £1,000,000 enabling next day delivery.

Not just a product supplier, Geosynthetics Limited provides "inspired solutions for civil engineering" through its team of application engineers.

Using extensive knowledge of products and applications, the team are developing an enviable reputation for innovative and sustainable solutions that not only achieve the desired objectives but also save the customer time and reduce overall costs.

Geosynthetics

Soil Slope

Contact: _____

Version: _____ Location: _____ Date: 19 December 2014

V1 Hungerford

Embankment for the proposed development at Inglewood Park, located in Hungerford.

Non Sent by Russell Hardy on 16/12/2014 we have the following:

Slope 19.5deg:
B=20m
L=3.20m
Slope angle: 19.5 deg
Topsoil + Temporary Erosion Control Blanket ECC
1.2.0 m approx.
2.0 m approx.
L: 80m approx.
ated Face: 100-150mm Topsoil + Temporary Erosion Control Blanket ECC
of the slope face.

Surcharge:
Assumed Surcharge: 5 kPa unfactored value.

Properties:
Embankment fill: on-site cohesive material: gravelly Clay.
Soft dark brown sandy slightly gravelly CLAY. Gravel is angular to very angular
to rounded fine to medium brick flint and concrete, according to Trialpit No:
RP02.
Foundation soil: gravelly Clay.

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TABLE 1. REINFORCED SOIL SLOPE 19.5 DEG INTERNAL STABILITY - BS8006:10

Result: Max H = 3.20m

B=20m
Slope angle: 19.5 deg

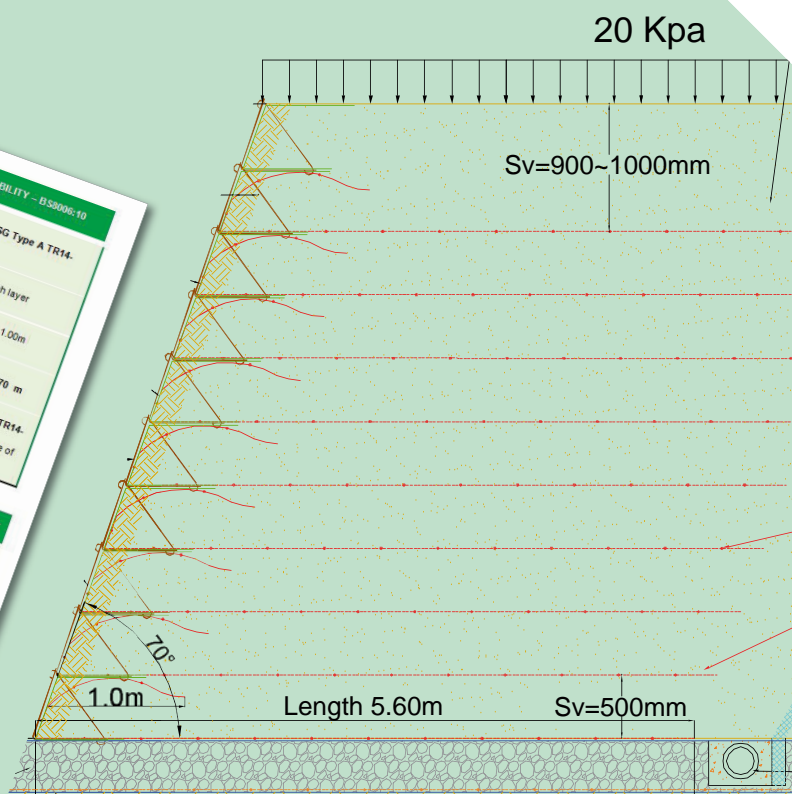
Reinforcement Layout:	• 8 layers Geogrid Strata SG Type A TR14. 1000V1 @ 400mm
Geogrid length for each layer:	• Horizontal Length: 4.50m each layer
Geogrid total length each layer:	• Wrap around @ 400mm: 1.20m + 1.00m
Slope Facing:	• Total length: 4.50m + 1.20m + 1.00m = 6.70 m
	• Erosion Control Blanket ECC Type B TR14. 1000V1 Vegetation: 100-150 mm topsoil at the face of the slope.

TABLE 2. REINFORCED SOIL SLOPE 19.5 DEG - RESULTS COMBINATIONS A, B AND C

Analysis - BS8006:10

Horizontal length of reinforcement	Combination A	Combination B	Combination C
Analysis:	4.34 m	3.71 m	3.71 m
Factor of Safety:	1.40	1.30	1.30
Factor of Safety:	1.31	1.34	1.34
Analysis:	4.50 m	1.30	1.34
Factor of Safety:	1.31	1.34	1.34

Horizontal length of reinforcement = 4.50 m



We are committed to offering the most comprehensive range of geosynthetic materials in the UK.

Our experienced and well trained technical team, fully conversant in all products from geotextiles, geogrids, geomembranes, cellular confinement systems, erosion control mats and gabions are always available to discuss the technical merits of our products and to advise which geosynthetic materials would be most suited to your particular application.

Our Engineering Department (Staffed by fully qualified civil engineers) has been created to give you free technical support and to provide economical solutions involving our range of products.

From the information you provide we perform a thorough analysis and propose a technical and cost-effective solution using the most suitable products. This would cover all applications and would be accompanied by design calculations and CAD drawings where necessary.

It is Geosynthetics Limited commitment to the highest standard of customer service that makes us the UK's No.1 supplier of geosynthetic materials.

The best of both worlds

We are so much more than just a product supplier. The support and guidance we offer free of charge makes us unique. We, quite simply, are the solution to your intended application.

► **free design calculations**

► **technical recommendations**

► **onsite support on installation**

► **full aftercare support**



inspired solutions for civil engineering

Geosynthetics Limited offer solutions for a wide variety of applications. We offer one of the most comprehensive range of geosynthetic materials in the UK.

CIVIL ENGINEERING

Our extensive range of civil engineering products can provide solutions for even the most complex of projects. We had the honour of being the main supplier of geosynthetic products for the Northumberlandia sculpture in Northumberland.

Northumberlandia consisted of the construction of a 400m x 300m earth sculpture of the female form. The project contained many challenging civil engineering elements such as reinforced soil walls and slopes as well as gabion walls. This unique project was made possible by the geosynthetic products we were able to supply.

TREE ROOT PROTECTION

We take our environmental responsibilities seriously and have ensured that we are able to

offer our customers environmentally sound solutions to ensure the health of their trees. We supply the Cellweb TRP system, the only tree root protection system on the market which offers a guarantee.

We have a dedicated Tree Root Protection Team which provides a range of services including; onsite assessments of projects, seminars and training on tree root protection which can be tailored to suit the audience, and general guidance on the use of tree root protection systems.

EROSION CONTROL

We stock a large range of erosion control products ranging from erosion prevention matting to permanent solutions for areas with a high water flow. We understand that all of our customers requirements are unique so we can tailor our products to meet the exact needs of the intended application. We can also offer a range of biodegradable solutions once again enforcing our commitment to a sustainable future.



GRASS PROTECTION

From high level traffic areas to foot traffic only sites, we have a range of solutions to cater for all your grass protection needs. We have been entrusted to provide such solutions for National Parks creating overflow car parks. Our ability to complete the project whilst protecting and blending in with the natural surroundings ensures the success.



Northumberlandia earth sculpture

As the company has grown so has the product range and Geosynthetics Limited now boasts the largest product range of its kind in the UK. Virtually all products are available from stock.

Our distribution centre boasts over £1,000,000 worth of stock, being based at the heart of the motorway network, we are ideally placed to honour our delivery commitments throughout the UK.

Our transport team will aim to accommodate any special requirements you may have. It is this attention to service that has allowed us to hit an 'on time' transport figure of 99% for the last two years.

product development



The key to our success has been our willingness to expand our product lines in order to provide solutions to the ever changing needs of our customers and legislation.

We believe you must never stand still in order to succeed and this philosophy is evident in our constantly expanding product line. Our goal is to provide our customers with excellent products that surpass expectations.

Monitoring developments within the industry has allowed us to stay one step ahead of our competition and at the cutting edge of geosynthetic innovation ensuring that our customers can be confident that we will supply them with the best products and services for their particular needs.

This, coupled with the support and advice provided from our engineering team, has forged great relationships with our clients and allowed us to grow.



Installation of our fantastic Cellweb TRP tree route protection



Cellweb TRP - Tree root protection with a 30 year guarantee

corporate social responsibility



Our implementation of a corporate social responsibility (CSR) programme has ensured our positive contribution to the local community as well as the natural environment.

ISO 14001 - ENVIRONMENTAL MANAGEMENT

Our industry requires a keen understanding of the adverse effects that can be caused by the application of our products. We actively seek out all opportunities to minimise our impact on the environment.

We have implemented an environmental management system which has received ISO:14001 accreditation, enforcing our commitment to provide environmentally conscious solutions to our customers applications. This accreditation compliments our ISO:9001 Quality management accreditation.

INVESTORS IN PEOPLE

We realise that if our people excel, then so will our business. This ultimately improves the experience for our customers. Our Investor in People Bronze

award acknowledges our commitment to the personal development of our team.

STUDENT DEVELOPMENT AWARD

We are particularly proud of our Student Development Scheme. The award is intended to encourage local students to further their education. Each recipient receives £1,000 during each year of their degree course along with a paid internship every summer.

LOCAL SCHOOLS AND COLLEGES

We work alongside local schools and colleges in conjunction with Careers Academy UK. We engage with students, encouraging them to be the best that they can be by offering mentoring, work experience placements and open day opportunities.

UNIVERSITY RESEARCH PROGRAMS

We have embarked on a programme of collaborations with Universities which includes research and development projects, guest lectures by our experienced engineering team and internships.



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**INVESTORS
IN PEOPLE**

Bronze