

Case Study

Cellweb® TRP and Golpla

Warwick University - Car Park



Location:

Warwick University
Coventry
CV4 7HP



Client:



Contractor:

Goldbeck Construction

Consultant:

SDP Consulting Engineers

Merchant:

Keyline Builders Merchants Ltd

Installer:



Geosynthetics Limited
Fleming Road
Harrowbrook Industrial Estate
Hinckley
LE10 3DU

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www.geosyn.co.uk

Due to increased expansion on the campus at Warwick University a new car park was required for students, employees and visitors. The location of the car park was surrounded by mature trees which the University wanted to retain in line with their environmentally friendly ethos.

SDP Consulting Engineers contacted Geosynthetics Limited to assist with the car parking solution, which needed to provide both tree root protection and a permeable surface to form part of a sustainable urban drainage system (SuDs). Cellweb® TRP was proposed as the subbase to protect the trees. Cellweb®TRP works by confining the 4-20mm clean angular stone within the internal cells to spread the loads laterally and to avoid compaction of subsoils.

By filling the Cellweb®TRP with a clean angular aggregate we ensure that both water and oxygen can access the root environment allowing continued water permeation and gaseous exchange. Cellweb®TRP is also used in conjunction with Treetex™ Geotextile which is a pollution control geotextile. Treetex™ has been tested and proven to retain 1.7 litres of oil per m2.

Hydrocarbon pollutants degrade and break down over time, which releases carbon dioxide. The Treetex™ geotextile ensures that this breakdown and carbon dioxide release occurs outside of the rooting environment. This helps to maintain healthy oxygenated soils.

Golpla® was proposed as the final surface as a gravel retention system to allow surface water to permeate into the sub base below. With both systems being fully porous, the water is slowly released to reduce the amount of water being channelled to the streams and rivers close by, which could potentially cause flooding.



AD Bly Construction Limited was appointed as the sub-contractor to install these systems by the main contractor, Goldbeck Construction. Geosynthetics Ltd pride themselves on being able to turn orders around quickly and was able to dispatch the materials required within 48 hours of the order. Geosynthetics Ltd were also on hand to provide assistance with installation advice for both Cellweb®TRP and Golpla® giving AD Bly the confidence to install both systems when it came to installation day.

“Geosynthetics Ltd offered next day delivery, and were available for on-site technical assistance. We would use them again”

Frankie Meszaros - AD Bly Construction





2 in 1
Landscaping Fabric



Gas Membrane
Radon, CO2, Methane,
Hydrocarbon Control



RoofCell
Sub Surface Drainage
And Water Storage



Alert®
Contamination Indicator



Geoglas®
Asphalt Reinforcement



Stratagrid
Soil Reinforcement Geogrid



AquaBlock®
Water Containment Liners



Geomembrane
Impermeable Membrane



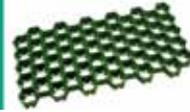
Strataweb
Slope Stabilisation



Bentotex® GCL
Geosynthetic Clay Liner



Golpla
Grass & Gravel Paving System



T-Block
Modular Retaining System



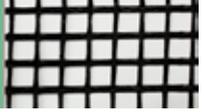
Cellweb® TRP
Tree Root Protection



Golpla Pregrown
Ready To Lay Paving System



Telegrid
Woven Polyester Geogrid



DuoDrain®
Composite Drainage Product



Interlock
Extruded HDPE Geogrids



Televev
High Strength
Woven Geotextile



Erosion Control
Comprehensive Range



Knotblock®
Japanese Knotweed Barrier



Tenax
Soil Reinforcement Solutions



Ekotex®
Non Woven Geotextile



Landlok
Turf Reinforcement Mat



Total Traffic Exopave
Heavy Duty Paver



Fiberforce®
Equestrian Geotextile



Nicospan
Erosion Control



Trinter
Erosion Control Mat



Fibertex
Non Woven Geotextile



Rhyno®
Woven Geotextile



Turfmesh
Grass Reinforcement



Flexitex
Textile Shuttering



RockBox
Gabion Mattresses



RootBlock
Root Barrier