

# 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  
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sales@geosyn.co.uk  
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



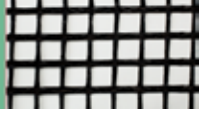
**Cellweb® TRP**  
Tree Root Protection



**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