



# Case Study

## Cellweb® TRP



### Location:

Fountaindale School  
Mansfield  
NG18 5BA

### Client:

Fountaindale School

### Project:

Fountaindale School



### Contractor:



### Arboricultural & Ecological Advise:



### Geosynthetics Limited

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Harrowbrook Ind. Est  
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www.geosyn.co.uk

**Site access was required through an area of protected trees in order to serve the construction of new buildings at Fountaindale Special Educational Needs School. The specialist school is set in a former plantation woodland which offers access through a belt of high quality oak trees located a few miles south of Mansfield.**

There was a requirement to provide a separate site access for construction traffic and then access to a new car park in the finished scheme. A separate footpath was also required through the wooded area to provide pedestrian access to the new school from the main road.

Geosynthetics provided a no-dig solution using a 200mm Cellweb® Tree Root Protection (TRP) system for the site access road. Only leaf litter and debris were removed from the surface as the Cellweb® TRP system does not require excavation into the soil, therefore avoiding damage to tree roots. The Treetex® Geotextile was laid directly onto the ground as a separation and filtration layer. Treetex® also acts as a pollution control layer, trapping oil spills within its fibres to protect the soils beneath. A 100mm layer of clean, angular 4/20 stone was laid as a subbase to allow for variable levels and soil conditions within the site. The Cellweb® TRP 200mm was then laid with the same stone as infill and as the finished surface.



A 75mm Cellweb® TRP system with a tarmac surface was also used to create an attractive pedestrian footpath through the woodland.

Cellweb® TRP allowed the construction of a stable load bearing surface for heavy construction traffic without compacting the soils or damaging the roots of the protected trees. The system is also permeable, allowing water and air, essential for the trees' survival, to reach the soils beneath the road.

In using Cellweb® TRP, construction and access to the new school has been achieved while protecting the attractive woodland within the school grounds.

***'The Cellweb® TRP system allowed us to install a new access road through an area of protected trees, this would not have been possible using a traditional road construction'***

James Beardmore - Senior Project Surveyor - BAM





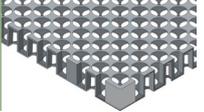
**2 in 1**  
Landscaping Fabric



**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



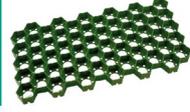
**Strataweb**  
Slope Stabilisation



**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



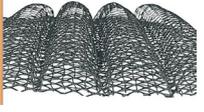
**Fiberforce®**  
Equestrian Geotextile



**Nicospan**  
Erosion Control



**Trinter**  
Erosion Control Mat



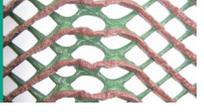
**Fibertex**  
Non Woven Geotextile



**Rhyno®**  
Woven Geotextile



**Turfmesh**  
Grass Reinforcement



**Flexitex**  
Textile Shuttering



**RockBox**  
Gabion Mattresses



**RootBlock**  
Root Barrier

