



# Case Study

## Cellweb®TRP



### Location:

Parkside School  
St Mary's Church  
Cobham  
Surrey  
KT11 3PX

### Project:

Parkside School



### Contractor:

Jennings Surfacing

### Consultant

- Fine Line Design Associates
- Z Ostley

Parkside School in Surrey approached Geosynthetics Ltd with a plan to construct a new carpark which would provide increased capacity for staff and visitors to the school. The location of the carpark and new entrance presented a challenge in that it was to be located in the root protection areas (RPA's) of trees which provide significant amenity value and were protected by tree preservation orders (TPO's). In accordance with BS 5837 (Trees in Relation to Design, Demolition and Construction - Recommendations) a no dig solution was required for the prevention of root severance, to minimise localised soil compaction and to ensure continued permeation of water and gaseous exchange between the atmosphere and the rooting environment.

The technical specifier from Geosynthetics Ltd met on site with the local authority tree officer and design team to propose the use of the Cellweb®TRP 3D cellular confinement tree root protection system, which performs the above functions and adheres to the British standard.



Geosynthetics Ltd are the only provider of tree root protection to offer a tree guarantee. This guarantees the life of the tree which is subject to a Cellweb®TRP installation and is available at no additional cost to all customers installing the system. The technical specifier from Geosynthetics was present on site during the installation to offer advice to the contractors and ensure that the correct methods of installation were used. This ensured that following installation Geosynthetics Ltd were able to provide Parkside School with the Geosynthetics Tree Guarantee.

A site specific technical recommendation was calculated by Geosynthetics Ltd's engineering department which recommended the use of the 200mm depth Cellweb®TRP system. The recommendation is made based on proposed loading from vehicular traffic and existing soil bearing capacities, ensuring that the new surface is fit for purpose and that the long term health of the trees is not compromised.



### Geosynthetics Limited

Fleming Road  
Harrowbrook Ind. Est  
Hinckley  
LE10 3DU  
Tel. 01455 617 139  
sales@geosyn.co.uk  
www.geosyn.co.uk

***"The need for additional parking was required but challenging to implement within the environmental surroundings. Cellweb® Tree Root Protection proved to be the ideal solution to meet planning criteria. From commencement to completion we were well supported by the Geosynthetics Team"***

Robert Tidd - Site Manager



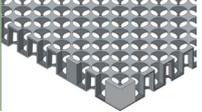
**2 in 1**  
Landscaping Fabric



**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



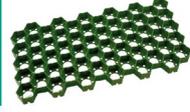
**Strataweb**  
Slope Stabilisation



**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



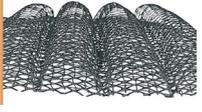
**Fiberforce®**  
Equestrian Geotextile



**Nicospan**  
Erosion Control



**Trinter**  
Erosion Control Mat



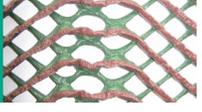
**Fibertex**  
Non Woven Geotextile



**Rhyno®**  
Woven Geotextile



**Turfmesh**  
Grass Reinforcement



**Flexitex**  
Textile Shuttering



**RockBox**  
Gabion Mattresses



**RootBlock**  
Root Barrier

