

Case Study

Cellweb® TRP

Housing Development - Shrewsbury



Location:

Shrewsbury
SY2



Contractor:

McPhillips Wellington LTD

Consultant:

Middlemarch Environmental
Ltd

MIDDLEMARCH
ENVIRONMENTAL

Merchant:

Keyline Builders Merchants Ltd

Cellweb® TRP is a 3D cellular confinement system which has been independently tested and proven to prevent over-compaction of the sub-soils and roots when creating new hard surfaces in root protection areas (RPA).

In May 2019, Geosynthetics Ltd were contacted by McPhillips Wellington LTD with an enquiry for Cellweb® TRP. The system was required as part of a large development to create a private driveway serving several new houses that passed through the RPA's of mature trees including an oak tree with a tree preservation order (TPO).

Within a week, the order was backsold through Keyline in line with our merchant policy and delivered direct to site. A few days later the Arboricultural Manager at Middlemarch Environmental Ltd contacted Geosynthetics for technical support while supervising the installation. A change in levels along the length and across the width of the driveway meant the system needed to be stacked to tie in with the finished floor levels of the individual dwellings whilst providing a smooth private driveway. Any increase in levels within the RPA should be carried out and constructed to ensure continued water permeation and gaseous exchange between the rooting environment and the atmosphere.



Geosynthetics engineering team worked with Middlemarch Environmental Ltd to provide a solution within 24 hours to reduce the potential impact to the trees onsite. The recommendation was 3 layers of 150mm Cellweb® with a layer of 75mm at each step in order to terrace this smoothly to a single 150mm Cellweb® layer as well as a combination of soil embanking and kerbing to ensure a smooth edge finish and detail.

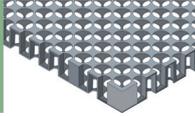
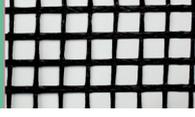
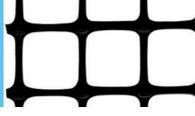
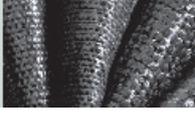
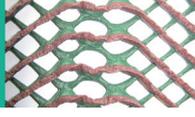
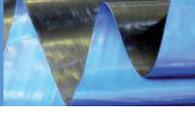
If you would like more information on this system or the complimentary engineering services please contact our team on 01455 617139.

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<p>2 in 1 Landscaping Fabric</p> 	<p>Gas Membrane Radon, CO2, Methane, Hydrocarbon Control</p> 	<p>RoofCell Sub Surface Drainage And Water Storage</p> 
<p>Alert® Contamination Indicator</p> 	<p>Geoglas® Asphalt Reinforcement</p> 	<p>Stratagrid Soil Reinforcement Geogrid</p> 
<p>AquaBlock® Water Containment Liners</p> 	<p>Geomembrane Impermeable Membrane</p> 	<p>Strataweb Slope Stabilisation</p> 
<p>Bentotex® GCL Geosynthetic Clay Liner</p> 	<p>Golpla Grass & Gravel Paving System</p> 	<p>T-Block Modular Retaining System</p> 
<p>Cellweb® TRP Tree Root Protection</p> 	<p>Golpla Pregrown Ready To Lay Paving System</p> 	<p>Telegrid Woven Polyester Geogrid</p> 
<p>DuoDrain® Composite Drainage Product</p> 	<p>Interlock Extruded HDPE Geogrids</p> 	<p>Televev High Strength Woven Geotextile</p> 
<p>Erosion Control Comprehensive Range</p> 	<p>Knotblock® Japanese Knotweed Barrier</p> 	<p>Tenax Soil Reinforcement Solutions</p> 
<p>Ekotex® Non Woven Geotextile</p> 	<p>Landlok Turf Reinforcement Mat</p> 	<p>Total Traffic Exopave Heavy Duty Paver</p> 
<p>Fiberforce® Equestrian Geotextile</p> 	<p>Nicospan Erosion Control</p> 	<p>Trinter Erosion Control Mat</p> 
<p>Fibertex Non Woven Geotextile</p> 	<p>Rhyno® Woven Geotextile</p> 	<p>Turfmesh Grass Reinforcement</p> 
<p>Flexitex Textile Shuttering</p> 	<p>RockBox Gabion Mattresses</p> 	<p>RootBlock Root Barrier</p> 



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