



Case Study: Tree Root Protection, Stanmore, London

As part of the planning conditions for a care home extension, a mature oak tree had to be protected throughout the construction process. The planning approval specified that no detrimental compaction should occur within the tree's root zone. Unfortunately, the root zone extended into an area where a 2-tonne piling rig was required to cross.

Through collaborative discussions between Greenfix's technical team, the client, and consultants, Greenfix proposed a cost-effective and efficient temporary solution. The solution accounted for bulk density calculations to ensure the soil's compaction remained within acceptable limits. Since soils with a bulk density exceeding 1.6g/cm^3 can restrict root growth, the aim was to keep compaction levels well below this threshold. Greenfix provided these bulk density calculations both before and after construction to monitor the impact.



The Geoweb® Tree Root Protection System, which is an approved solution under BS5837-2012 for tree root protection, was identified as the ideal choice to create a temporary track for the piling rig.

Greenfix representatives were on-site throughout construction to assist with the correct installation of the Geoweb system, including the use of the ATRA® Keys joining method. These keys are permanent, much easier to install, and four times stronger than traditional stapling, ensuring a secure and reliable installation.



For this temporary application, the cells of the Geoweb system were filled with sand, which provided significant cost savings while maintaining the track's required stability. The system's design also minimised impact on the underlying ground, which was critical as the track passed over the landscaped gardens of the care home—an area enjoyed by many residents. After construction, the gardens were restored to their original condition.



Product

Geoweb® Tree Root Protection System