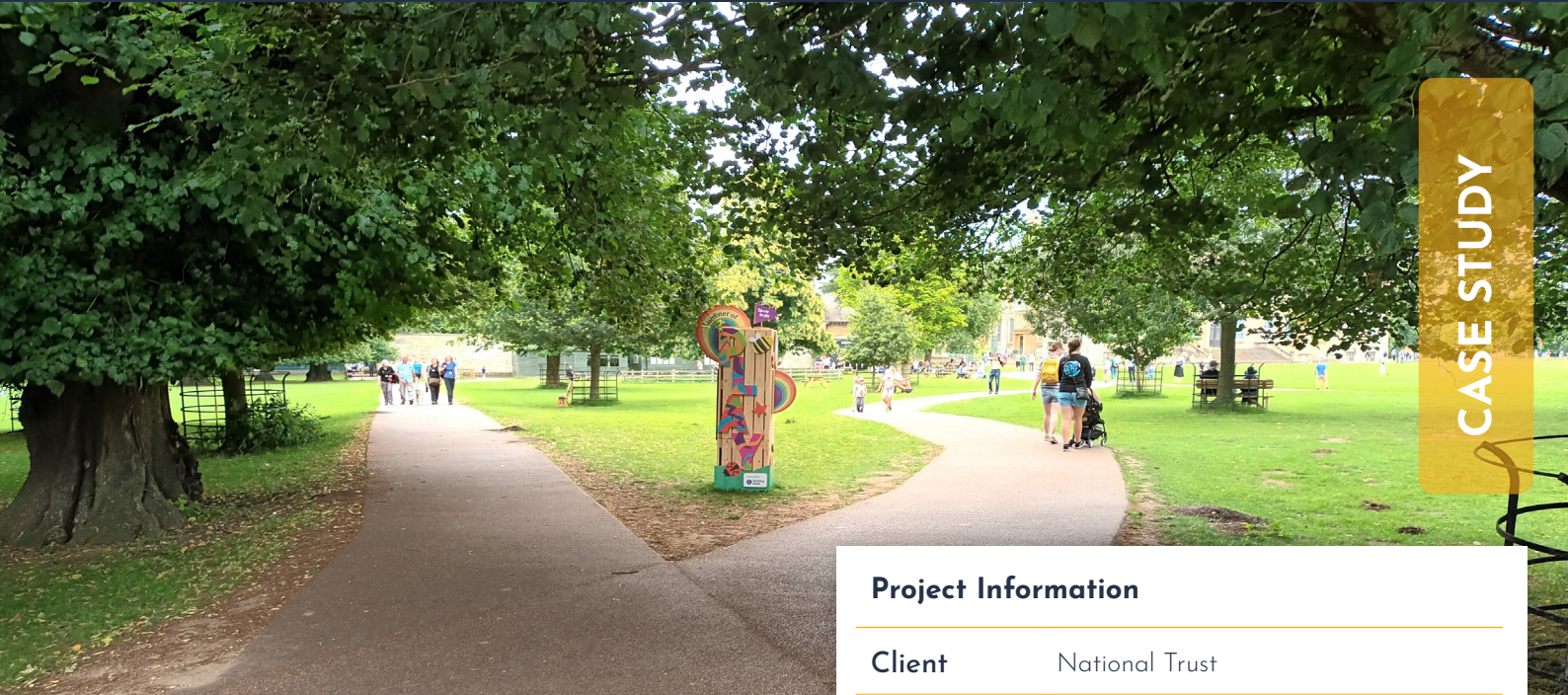


Tree Root Protection

Access Footpaths, Abweb TRP, Belton House, UK



CASE STUDY



Project Description

Belton House is a Grade I listed National Trust visitor attraction in the parish of Belton near Grantham in Lincolnshire, built between 1685 and 1687 by Sir John Brownlow, 3rd Baronet. It is surrounded by formal gardens and a series of avenues leading to follies within a larger wooded park.

The Challenge

Following the development of a new public car park installed with ABG's Sudspave 40 permeable paving system, there was also a requirement to create new footpaths from the car park to access the main house and grounds. The requirement was to provide a structural base for the paths and also root protection to a number of large ancient broadleaf trees adjacent to the walkways. Because the extensive tree roots were very close to the existing soil surface, minimal excavation was allowed.

The Solution

ABG's geocellular **Abweb TRP System** was specified and installed. The **Abweb** system confines the sub-base and provides a structural load distributing platform to minimise soil compaction. It also enables the essential permeation of water, oxygen and nutrients to pass through to the tree roots, ensuring the future health of the magnificent trees.

Project Information

Client	National Trust
Contractor	Thomas Bow
Consultant	Kingfisher Design & BHB Architects
Products	Abweb TRP
Quantity	600 m ²
Benefits	<ul style="list-style-type: none">• Shallow build-up / minimal dig solution• Protects tree roots against pedestrian and vehicular damage• Provides a firm structural base for new pathways



ABG Abweb TRP

ABG LTD

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To install the **Abweb** system, existing turf was carefully removed, timber edging boards installed and a protective layer of **ABG Terrex** geotextile was placed. **Abweb** cells were then quickly and easily filled with a free-draining low-fines DTp Type 3 aggregate. The paths were surfaced with a porous gravel and resin surface and shallow topsoil banks were feathered-in along the edges of the paths to meet existing levels.

The ABG Service

To meet the project specification criteria, ABG's **Abweb TRP** system conforms to the Arboricultural Association Guidance Note 12 and its seam strength conforms to ISO 13426-1:203 **Geotextiles and geotextile related products-strength of internal structural junctions**.



DTp Type 3 stone filled Abweb panels

ABG Abweb TRP panel installation

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