

Material: Geoweb® GW30V6, TRP3000 Geotextile, ATRA Key  
Date: September 2012

## Geoweb for Load Support

### Service Road Copt Hewick Hall, Ripon

Client **Property Owner** Contractor



Copt Hewick Hall is a privately owned grade II listed building near Ripon, North Yorkshire. As part of an extensive renovation a service road was created using 150mm deep Geoweb. With a permeable surface such as that being used on this site confining the aggregate within the cells Geoweb improves the load distribution characteristics, reducing long term maintenance requirements.



Without proper support areas used by traffic will rapidly deteriorate to a point where they become unusable. The relatively poor soil of the local area means that using Geoweb reduced excavation and aggregate requirements while minimising the likelihood of settlement and deformation.



Only 200mm of subgrade was excavated compared to the 500mm required for conventional road construction and subgrades of this CBR value. TRP3000 300gsm needle punched geotextile was laid to provide a suitable separation layer between the subgrade and the specified aggregate. This grade of geotextile was selected to give the best compromise between infiltration of water from the permeable surface to the subgrade, and the strength required for the load support system to perform as expected.

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ATRA® Keys were used to join the Geoweb® panels rather than the traditional staples. ATRA Key is permanent, substantially quicker to install, safer and four times stronger than stapling.

Geoweb incorporates I-SLOT® which enables ATRA key to create a friction-locked connection (1.1kN tensile strength per connection) for the Geoweb sections.

As the Geoweb panels were expanded they were temporarily pinned into place to hold them open for infilling.

Bends in the roadway were created by over expanding the outer cells and under expanding the inner cells until the desired radius was achieved.

The Geoweb cells were then infilled with aggregate and spread to ensure that the cell walls would be over filled by 10mm once compaction had taken place.

Technical support was provided to HACs Civil Engineers by Greenfix representatives on site to assist with the prompt completion of this project.



ATRAkey  
requires a  
simple twist to join  
adjacent panels



Completed Service road with  
proprietary edging

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