Material: Geoweb® GW30V6   Date: Summer 2012

Darnford Park North

Environmental Mound, Lichfield Canal

Client

Contractor

Corporate Citizenship Volunteers

The Lichfield Canal covers a distance of just over 7 miles from Ogley Junction to Huddlesford Junction and was built between 1794 and 1797. The Lichfield & Hatherton Canals Restoration Trust was formed in 1988 to reinstate the historic canals for the benefit of the community

This project involved the creation of an environmental mound to cut down noise from the nearby A38. Formed from the surplus material from a previous sewer diversion it incorporated a Geoweb Gravity Retaining Wall. These are effective when space constraints, as on this site, do not allow the use of earth reinforcement materials. The system is constructed as a layered gravity wall that resists lateral pressure and maintains structural integrity.

From the initial sketch and information Greenfix produced a design and technical guidance that enabled the volunteers to construct the Geoweb reinforced earth retaining wall

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GEOWEB LAYERS · BACKFILL SOIL · RETAINED SOIL · FOUNDATION SOIL

The perforations in Geoweb allow lateral drainage through the system, In vegetated systems, the perforations increase root lock-up, creating a more stable vegetated mass and overall healthier soil environment.
The Geoweb panels can be stepped back to create the wall inclination required based on space available and planting requirements

Pre-formed steel spacer bars

Cells were filled with site won spoil

Stepped back layers of Geoweb

The layers of Geoweb® were filled with a site won sand/soil mix, and were held open with pre-formed steel spacer bars whilst filling took place. The layers were stepped back in line with Greenfix design guidance, and secured by a polyester geogrid mesh installed every third layer to reinforce the compacted back-fill.

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