

Case Study: Vegetated Retaining Wall Paulton, Bristol Products: Geoweb Retaining Wall System



Provectus Remediation were looking for a cost-effective retaining wall solution that could be easily installed and landscaped. The Geoweb system allowed the use of onsite materials for infill and back-fill. Geoweb allowed reclamation of land areas with less than desirable soil properties. Topsoil in the outer wall fascia provided a natural environment for vegetation.

The design settled on was a Geoweb® geocomposite retaining wall. This creates a fully confined wall facing united with the backfill using a variety of tie back solutions. A geocomposite retaining wall was used here due to its suitability for use in conditions of poor foundation soil and because site won fill could be used. This was a condition of planning as well as good site practice where invasive plants and heavily contaminated spoil had already been dug out.

At Paulton a layer of Polyester Geogrid was installed every fourth layer of Geoweb. The maximum height of the structure was 5 metres and the maximum length was a run of 103 metres. The compact, lightweight nature of the Geoweb panels made them ideal for use on a site where speed of construction was important, with completion in 4 weeks. Sections were quickly expanded, positioned, infilled, and compacted by operatives new to using Geoweb retaining wall systems. Greenfix staff attended site to provide technical advice.



Client



Contractor

