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Development: Maendy Farm, Bridgend

Solution: Textomur Reinforced Soil & Permacrib

Region: Barratt South Wales



Phi Group were employed directly by Barratt South Wales to provide an innovative solution to design, supply & install a Textomur green faced reinforced soil structure at their Maendy Farm Development, Sarn, Bridgend.

Phi Group has designed, supplied and installed a wide range of retaining wall solutions for over 30 years., and are widely acknowledged as the leading retaining wall specialist in the UK.



The development, was situated on a sloping site and there was a requirement to raise levels at the bottom of the site to increase the development footprint. As the levels were to be raised reinforced soil was the obvious choice. Phi Group’s Textomur system uses a steel mesh facing cage to encapsulate the topsoil with geogrid reinforcement extending to the rear. The reinforced soil material is then placed and compacted in layers until the finished level is reached.



The main benefit of the Textomur system is the ability to re-use site won material to form the reinforced soil block. On a cut and fill site, or where there is an excess of material on site, this saves on the cost of both muck away and importing of material. It also has a massive benefit from a sustainability perspective.

The retaining walls were over 130m in length with a face area of over 700m² and a maximum retained height of 5.50m

We also designed, supplied & installed one of our BBA Certified Permacrib timber crib retaining walls on site for a later stage of development.



Phi Groups works included:

Fully indemnified design

Supply of Textomur cages & reinforcement

Placement and compaction off granular reinforced soil fill material

Installation of fencing

Typically Phi Group will work in conjunction with a nominated ground worker on site, but we are also fully capable of expanding our scope of works when required to provide a stand alone service.

