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Development: Copper Quarter, Swansea

Solution: Titan Modular Block & Thrust Relief Walls

Region: Barratt South Wales



Phi Group were employed directly by Barratt South Wales to provide an innovative solution to design, supply & install a Titan Modular block faced reinforced soil structure at their Copper Quarter Development in Swansea.

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, situated in an excellent position by the river, required a raised ramp and walkway be constructed in front of the proposed apartment blocks facing the river. As levels were being raised, Phi Group proposed the use of their Titan modular block faced reinforced soil system to form this walkway. The split faced architectural block is immediately serviceable. The material being used to form the walkway was placed and compacted in layers around steel ladder reinforcement, to form the reinforced soil block. We also came up with a cost effective solution to support the walkway on the other side that was to be retained by the new apartment blocks. To save having to make the apartment walls structural retaining walls, we used our Textomur system as a thrust relief wall to keep the load away from the new buildings.



The retaining walls were over 700m in length with a face area of over 2,000m² and a maximum retained height of 5.0m

Phi Groups works included:

Fully indemnified design

Supply of Titan Split Face Modular blocks & reinforcement

Supply & placement of the concrete foundation

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.

