

Coed Darcy Development

Coed Darcy, Wales



TYPE OF PROJECT
**Mass Gravity
Retaining Walls**



YEAR OF CONSTRUCTION
2017



CLIENT
**St Modwen
Homes/Persimmon
Homes**



PROD. RELATED
Gabions (Undefined)



CONTRACTOR
**Dawnus
Construction/Econ
Construction**



DESIGNER
Atkins

Challenge

Coed Darcy translates to 'Darcy's Woodland'. It is a large-scale regeneration project based in Llandarcy, South Wales.

The Coed Darcy site has over 1000 acres of developable land and has a thriving community in the nearby town of Neath, South Wales. Therefore, the project offers great potential for people commuting into Neath and Swansea. Additionally, the project is conveniently situated just off junction 43 of the M4 and at the start

of the Heads of the Valley (A465) which are both invaluable transport links to people in the area.

Coed Darcy is set to house more than 10,000 residents and become a sustainable community which will have facilities including retail, leisure, sports and acres of green open space. The economic impact of this development will be over £1 billion. Around the site there has been uneven ground and certain areas need retaining and stabilisation.



Welded gabion installed in Coed Darcy



Maccaferri Construction hand placed the selected slate stone

Solution

Phase one of the development St Modwen homes development required a retaining structure to stabilise an exposed rock face and also create garden/ walkway spaces. Designed by Atkins, Maccaferri Construction installed the impressive gabion retaining wall in the summer of 2016.

Maccaferri Construction installed an 85 metre-long gabion retaining wall totalling 800m³ in 4mm welded gabions with a carefully placed front-facing slate stone

and 6G gabion fill. The wall which was founded on the exposed bedrock reached an impressive 7 metres in maximum height.

On walls of these dimensions, woven gabions are typically used and specified. However, due to the site conditions and the gabions acting more as a cladding feature to the exposed rock face rather than retaining, the more aesthetically pleasing welded gabions could be used.



The wall is up to 7m in height



Successful interaction between



Mid section of the gabion



View of the gabion structure



OPEN GOOGLE MAPS



OPEN GOOGLE EARTH