Ebbsfleet Green

Kent

Redrow Homes secured suitable land to develop a large housing site at Ebbsfleet in Kent, which is a prime location to commute into the City of London. The scheme also involved the construction of a new hotel.



The project

The first phase of the Permacrib timber crib wall was to enable the construction of this hotel, with the second phase carried out some months later to enable Redrow Homes to continue building the new houses.

The challenge

Due to the maximum retained height of nearly 7.0m, the temporary earthworks were a major consideration when developing the retaining wall solution. Phi Group gave Redrow Homes various options which included excavating the temporary earthworks to 60 degrees or 45 degrees. Each option has an effect on the wall thickness, and hence cost.

The solution

The Permacrib timber crib system was chosen as the most cost effective, buildable and aesthetically pleasing solution. The finished Permacrib wall was 370m long, with a face area of nearly 1,500m2 and a maximum retained height of 6.90m. All designed, supplied and installed in house by Phi Group.

Project facts

Owner(s)
Redrow Homes

Keller business unit(s)
Phi Group

Main contractor(s)
Redrow Homes

Solutions
Slope stabilisation

Markets
Residential

Techniques
Retaining structures

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