

Clay Cross, Chesterfield

Installing a King Post Wall for a new residential development



AARSLEFF

Aarsleff Ground Engineering have completed on site in Chesterfield installing retaining walls for a new housing development.

The Egstow Park development will have over 160 houses on the site, ranging from two-bedroomed homes all the way up to four-bedroom. The development is also located with good transport links into Chesterfield, along with great outdoor space and only a short distance from the Peak District.

Aarsleff were awarded the contract by St. Modwen Homes for the construction of the retaining walls on the site. Aarsleff proposed a King Post Wall solution as an alternative to the sheet piled wall St. Modwen Homes were originally looking for as it provided a faster construction and more aesthetic finish.

In total, Aarsleff installed 106 Lin/m of King Post Wall around part of the site with maximum retained heights of up to 2.6m. The construction of the wall involved driving H-section posts spaced 1.5m apart using a crane suspended vibratory hammer. Once installed, the pre-stressed concrete panels were placed between the posts to create the wall. The wall was then back filled to retain the bank and allow maximum usage of the site.

Scope of Works
106 Lin/M King Post Wall

Client
St. Modwen Homes

Equipment
Crane suspended vibratory hammer

Construction period
17th April – 10th June 2019

Aarsleff Ground Engineering Ltd, is the UK trading arm of Danish contracting giant Per Aarsleff A/S, and is one of the UK's leading piling and geotechnical design and installation specialist contractors; actively promoting early consultation to ensure each scheme can be Value Engineered to give clients the best service, quality design, safety and value. Aarsleff's strategy and philosophy of investment into the future has resulted in its wholly owned subsidiary Centrum Pile Ltd having the most advanced precast pile production facilities in the UK, producing segmentally jointed precast concrete piles to BS En12794 to Class 1A.

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