

# Driven Precast Concrete Piling, Pentre, Forge Lane, Wales



**AARSLEFF**

Aarsleff Ground Engineering were appointed by Weston Contractors on behalf of their client RCT Homes to undertake the driven piling for an apartment block in Forge Lane, located within the county of Gwent which is in the Wales region of the UK. The site is approximately 900m<sup>2</sup> in area. Houses are located to the east of the site, on the other side of Forge Lane, and a bowling green and recreation area are present to the west and north. The site is underlain by superficial deposits of Glacial Sand and Gravel, which is also underlain by Upper Pennant Coal Measures generally consisting of sandstone and mudstone. The site appears to have been on the edge of a coal spoil heap from before 1877 to between 1952 and 1961 when the spoil heap was remodelled and recreation grounds

were located to the west of the site. The east of the site was occupied by unspecified buildings from between 1952 and 1961 to between 2006 and 2015 when they appear to have been demolished. Aarsleff deployed their Banut 300 midi-rig to install 55No. Driven Precast Concrete Piles of 250mm square diameter. Due to its compact design, the rig is perfect for residential and restricted-access sites. Initially, a CAPWAP analysis was undertaken on 3No. piles on the 7th of April to determine the load bearing capacity and load deflection characteristics - A CAPWAP is necessary as it evaluates the immediate settlement characteristics. The main works were carried out on the 7th May for 1 working week and were completed to schedule and to the client's satisfaction.

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.

## Contact

Aarsleff Ground  
Engineering  
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#### Scope of Works

X3 No. Test Piles  
55No. Precast Concrete Piles

#### Client

RCT Homes

#### Main Contractor

Weston Contractors

#### Equipment

Banut 300

#### Construction period

7th May 2019 for 1 week

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#### Contact

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