

# Latchford, Warrington

Installing precast piles and ground beams for affordable homes development.



**AARSLEFF**

Aarsleff Ground Engineering were awarded the piling works from main contractor Winworth Construction Ltd on behalf of client Helena Partnerships, part of the Torus group. The project is part of the Torus Group's plan to develop 1200 affordable homes in the North West by 2020. The development will see 104 2/3 bedroom homes, in which 64 will be available for rent and 40 for sale through shared ownership.

Specifically, Aarsleff designed and installed 200mm square precast concrete pile capable of carrying loads up to 350kn. The groundbeams were a 450mm X 450mm square profile, which were formed in reinforced precast concrete with interlocking ends to product a finished foundation. During the design process, Aarsleff tailored the rebar within each groundbeam to suit the particular loads being carried, and produced co-ordinate tables and autocad drawings for every beam and pile to allow millimetre accuracy when setting out on site with computerised survey equipment.

The project was constructed on a former brownfield site which was closely monitored by an Environmental officer for ground contaminates. The project was completed to budget and on-time with no lasting impact to the local environment.

#### Scope of Works

665 No. 200mm X 200mm,  
precast concrete reinforced  
piles.  
2414m 450mm X 450 mm,  
precast concrete ground  
beams.

#### Contractor

Winworth Construction Ltd

#### Equipment

Junttan PM16-1

#### Construction period

June 2016

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

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