

Driven Precast Piling Works, Graveney Road, Faversham



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Aarsleff Ground Engineering were awarded the piling contract for a vibrant new housing development on Graveney Road in Faversham, comprising a collection of 1 and 2-bedroom apartments, and 2, 3, and 4-bedroom houses. All properties have garages, or allocated parking and all of the houses benefit from gardens.

Over a 9-week period, Aarsleff deployed its Junttan PM16 rig and 2No. Banut 700 rigs spread over 3 separate visits to install 858No. driven precast piles of 200mm and 250mm square section and between 5m – 16m in length, into chalk limestone. The piles, designed to cater for up to 525kN compressive working loads, were manufactured in Aarsleff's sister manufacturing facility Centrum Pile and have been tested and confirmed as structurally competent before delivery to site. Aarsleff then carry out Dynamic Testing and CAPWAP analysis to verify bearing capacity of the piles.

Aarsleff's Senior Contracts Engineer Simon Cottingham said "As one edge of the site was within 3m of the Network Rail boundary, and 10-15m from the live railway, we carried out vibration monitoring for the duration of piling works in this area. The vibration calculation was reassuringly low and showed no cause for concern. We also positioned the rig facing the tracks, with its tracks perpendicular to the rail. In this orientation, and in the unlikely event of hydraulic failure, the leaders would fall backwards, away from the rail".

In addition to this, Aarsleff incorporated smaller length, jointed piles. Aarsleff Ground Engineering's Piling Manager Jon Harris said, "We have carried out several jobs where our machines have been within less than 15m from the live rail; we, and our operatives, are highly experienced in working in this type of scenario".



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Scope of Works

858No. Driven Precast Piles

Contractor

Bellway Homes South East

Equipment

X2 banut 700 Rigs

Junttan PM16

Construction period

April 2018 - 31st August 2018

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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