

Tesco Wind Turbine, Magor, Wales

Installing raked and verticle precast concrete piles for wind turbine.



AARSLEFF

As the piling contractor for this project, Aarsleff undertook the task to install a combination of vertical and raking, 350mm square reinforced, precast concrete piles to average lengths of 15m. 40 piles in total were required for the foundation of the 2 bases, as per the criteria set out by Structural Designers HCE.

Aarsleff benefits from the experience and established track record of its Danish parent company and German sister company, who between them have designed and installed the Centrum Pile System for thousands of wind turbine foundations on the mainland of Europe.

R G Carter Civil Engineering Ltd handled the design, construction and installation of the Balance of Plant works for the installation of 2no. Enercon E53 wind turbines at Tesco's distribution centre in Magor, Wales.

Site logistics were a key restraint on this site with the turbines and their associated infrastructure being located within the 24 hour operating distribution centre's car parks, together with the construction period being either side of Christmas – the Distribution Centres' busiest time of year. A good working relationship with the Distribution Centre staff facilitated this day to day management.

The project was handed to Tesco for programme, even following the discovery of a horses skull from the Middle Bronze Age within one of the foundation excavations which is of considerable archaeological interest.

Scope of Works

40 No. 350mm precast reinforced concrete piles

Contractor

R G Carter Civil Engineering Ltd

Client

Aggregate Industries Ltd

Construction period

October 2013

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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