

Fisher Street, Newcastle

Installing soil nails for commercial development.



AARSLEFF

Aarsleff Ground Engineering has completed the soil nailing works for a 10m high by 200m long 65° permanent soil nailed wall at Fisher Street, Newcastle on behalf of Esh Group for main client Newcastle County Council.

The permanent soil nail wall supports Fisher Street along the western boundary of the site, allowing the commercial development of a one-hectare site, as part of the Neptune Energy Park Project for Newcastle City Council.

The ground conditions comprised Made Ground and Glacial Till over the retained height, with a 2m thick layer of weaker Laminated Clay below the toe of the soil nailed wall. Aarsleff installed a total of 1,000 No. x nominal 100mm galvanised self-drilled grout-flushed soil nails on a 1.25m horizontal x 1.37m vertical spacing based on a diamond layout in an incremental top down sequence. The soil nail lengths ranged from 6m to 16m and were installed at 25°, perpendicular to the cut slope.

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.

Scope of Works

1000 no.100mm galvanised self-drilled grout-flushed soil nails

Client

Newcastle County Council

Contractor

Esh Group

Construction period

February 2017

Contact

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