

# IKEA, Newcourt Way, Exeter

Installing soil nail wall for construction of a new Ikea store.



**AARSLEFF**

Main contractor McLaughlin & Harvey Construction Ltd awarded Aarsleff Ground Engineering the contract to supply and install the soil nailed wall to support the construction of a new IKEA store in Exeter, just off Newcourt Way near Sandy Park.

Soil nailing has the benefit of a top down construction method and therefore was deemed to be the smartest solution to allow the development to progress without significant loss of usable land. The land, which has a total of 115,882.00sq metre area, is bound to the South by a residential construction site and current residential development.

To provide a level platform on which to construct the new IKEA store, Aarsleff cut into an existing slope 424m long and 9.8m high. Testing was carried out in advance of the main works to include the install and test of 6No test nails between 5m and 8m long. Aarsleff installed 1081no 32mm hollow self-drilling soil nails with a sacrificial drill bit to a 70° slope made up of Dawlish Sandstone, faced with a structural steel mesh clad with a facing mesh and filled with a graded hardwearing local stone. The nails were installed with Aarsleff's own Klemm 806 drill rig.

Speaking about the project, Kevin Hague, General Manager, Aarsleff said: "This is an exciting project simply because of the sheer scale of what is involved. It also allows us to demonstrate the efficiency and cost-effectiveness of a soil nail solution for a commercial development".

**Scope of Works**  
1081 No. Soil Nails

**Client**  
Ikea

**Contractor**  
McLaughlin & Harvey  
Construction Ltd

**Construction period**  
April 2017- July 2017

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.

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