

Reykjavik, Iceland

Driving vertical and raked piles in Iceland for a new residential development.



AARSLEFF

Aarsleff Ground Engineering, one of the UK's leading contractors of driven precast piles and geotechnical solutions, has completed a project in Reykjavik, Iceland, driving vertical and raked piles for a new residential development.

The new multi-story residential development, called Keilugrandi, will comprise of four separate blocks, containing over 78 apartments and ranging from two to five storeys. The client Búseti, a social housing co-operative, intends to start selling properties by fall 2019.

Istak were the contractors for this project and are one of Iceland's leading civil engineering and construction contracting firms. Istak were acquired by Aarsleff in 2015 allowing for Aarsleff to enter into new markets in Greenland, Iceland and the Faroe Islands.

In order to drive the piles, Aarsleff transported one of its Junttan PMx22 rigs from the UK. Furthermore, they installed piles manufactured and delivered by its sister company Centrum Pile in Sweden, demonstrating Aarsleff's 'One Company' approach of cross collaboration within the Aarsleff Group. During the 9 days on site, a total of 267 No. piles of 270mm square section were driven. Interestingly, another specification for this project was to have a number of piles raked at 10°. This required good coordination and planning to run smoothly and efficiently whilst on site.

"The raking of piles were required to stabilise the earth in the event of seismic activity" said Richard Judd, Aarsleff's longest-serving rig operator. "This required detailed planning and coordination. Due to the angle of the raked piles I had to determine the exact sequence of pile position and rig orientation to ensure we didn't miss any piles out and didn't make it impossible to drive any of the piles in"

Aarsleff's Managing Director Kevin Hague said: "We demonstrated the true meaning of 'One Company' with cross collaboration and synergy between departments, cultures, disciplines, and knowledge. We are always met with kindness and openness when we work abroad and the collaboration between the parties involved – Istak, Centrum Pile Sweden - was nothing short of perfect"

The overall piling works were completed a full three weeks ahead of schedule.



Scope of Works

267 No. Driven Precast Piles

Client

Búseti

Contractor

Istak

Equipment

Junttan PMx22 (shipped from the Aarsleff's UK fleet)

Construction period

March 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.

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