

ABI Equipment Limited

Piling Equipment Specialists

Sales - Hire - Parts and Service - Project Support



ABI Equipment Ltd was contracted by Martello Piling Ltd to supply a Delmag RH34 rig, plus associated rotary piling tools, at the Newington Causeway project site in south London for a four week period in April and May 2018.

The Project

The Elephant & Castle area is undergoing an extensive redevelopment programme, estimated to be costing £2.3 billion over the 10 years of its duration, and of this Newington Causeway is just a small part.

The whole project is designed to regenerate the area and will see the development of almost 2500 new homes and 50 shops and restaurants, centred around the new Elephant Park recreational site (formerly the Heygate Estate). It is also planned to include a new 'town centre' replacing the now somewhat out-dated Elephant & Castle Shopping Centre.

Project Features

The Delmag RH34 was required for the installation of concrete filled tubular piles forming foundational support for the hotel and residential area.

The drilling site was alongside an elevated section of the main railway line running directly into London Blackfriars, on a brown field site with clay and deeper sand underlying the made ground.

Newington Causeway – Elephant & Castle, London

Main Contractor: Rock & Alluvium

Client: Neobrand No.2

Piling Sub contractor: Martello Piling

Piling Equipment supplier: ABI Equipment Limited



ABI Equipment Limited

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Piling Method

Due to the nature of the ground conditions Martello were using a swelling bentonite solution to support each of the piles. In order to supply this process they mobilised a low headroom bentonite plant with open top square tanks of 100m³ capacity as a measure to prevent any oversailing of materials onto the adjacent rail lines 6m above the piling area.

The project involved the installation of 17 piles, 900mm in diameter. The piles were bored to a depth of 26m before being flooded with bentonite, allowing Martello to then dig underneath this to a total depth of 45m. Cages were then installed and the piles tremie-filled from the toe level.

Paul Gwynne, Operations Director for **Martello Piling Ltd** commented:

"The Delmag RH34 performed perfectly during the piling process and complemented our bentonite plant perfectly. It was easy to use and coped well with the challenging ground conditions. We were pleased with the reliability of the rig and the customer service we received from ABI was exemplary."



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