

ABI Equipment Limited

Piling Equipment Specialists

Sales - Hire - Parts and Service - Project Support



GRAHAM Construction selected ABI Equipment Ltd to provide pile driving equipment consisting of a Delmag D100-13 diesel piling hammer for their offshore civil engineering project at Energy Park Fife. The project was constructed over a 20 week period during 2017, with the piling works being carried out in June and July.

Energy Park Fife

Main Contractor: GRAHAM Construction

Client: Scottish Enterprises

Piling Equipment supplier: ABI Equipment Limited

General Information

The project is part of an overall circa £45m development.

Energy Park Fife is an engineering and research area located on the east coast of Scotland. This 55ha engineering site encompassing Methil Docks, Methil Docks Business Park and Low Carbon Investment Park, offers a convenient location

giving easy access to the offshore energy market in the North Sea.

The Project

The project consisted of constructing two dolphin marine structures. These off-shore marine structures were being built to allow a loading facility for wind turbines.



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The Piling

Each of the two dolphins consisted of 3 tubular piles, each pile being Ø1524mm x 55 mm thick x 27.5 m long and weighing 55 tonnes.

Piling procedure

- Pitch pile into a pile gate
- Drive pile with D100-13 hammer to refusal, approximately 7m into bed
- Set up pile top drilling rig
- Auger to required depth approximately 17m from bed level, 10m below the pile toe
- Re-drive to finish level, 17m into bed

The ground conditions consisted of silt, sandstone and mudstone, through to hard sand.

Steven Dickson, GRAHAM Construction Site Manager, stated that “we were pleased that we chose the Delmag D100-13 diesel hammer for its excellent performance. It gave us cost benefits and in addition its simple robust design made it straight forward for the site crew to use and maintain. We received a very attentive service from ABI Equipment Ltd”.



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