

SILENT HAMMERING ACHIEVED BY BLUE PILING TECHNOLOGY, TRIALLED AND VERIFIED ON TESTPILE

DELFT, 14.03.2016 – Recent TNO measurements have demonstrated that BLUE Piling Technology is able to silently drive piles into the soil, complying with the strictest industry regulations.



Trials conducted by Fistuca on a testpile - during which the Dutch research institute TNO have measured noise levels in water - demonstrated that very low noise levels can be achieved with the BLUE Hammer. All underwater sound levels measured during these tests were far below the most stringent industry limits that currently apply; those in German waters.

In order to protect marine wildlife, strict rules on the offshore construction noise apply. The costs of reducing pile driving noise can represent up to 15% of the installation costs. BLUE Piling Technology tackles the noise issue at the source, by silently driving large piles offshore.

Jasper Winkes, Director of Fistuca BV: "Given the conditions under which we measured these very low noise levels, we expect to exceed noise reductions of 20 decibel on the SEL values, when compared to conventional hydraulic hammers. This would allow contractors to save millions of euros in noise mitigation, while reducing installation risks."

BLUE Piling Technology employs a large water column to drive a pile in the soil, instead of the steel ram used by conventional hammers. A combustion throws up this water column, which falls back on the pile

under the force of gravity, hence delivering two blows. This cycle is repeated until the pile reaches the desired depth.

BLUE Piling Technology has various additional advantages over conventional impact hammers. The long blow duration minimizes the fatigue during installation. Low acceleration levels also allow partially pre-assembled foundations to be driven into the soil, thereby reducing the required work offshore. Due to its remarkable scalability, the largest piles in the world can be driven using BLUE Piling Technology.

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Link to press kit: www.fistuca.com/presskit.zip

Link to Youtube video: https://www.youtube.com/watch?v=dt_9R5FdEq0&feature=youtu.be