



AARSLEFF

Sheerness Docks

Installing 328 steel tube piles in three diameters within London Clay Strata.

Aarsleff Ground Engineering was appointed by Burden Brothers to deliver the supply and installation of 328 steel tube piles in support of a new silo development in Sheerness. The project, which ran for 4 weeks, was delivered within a tight timeframe and required a high level of coordination and technical precision.

The scope involved installing steel tubes in three different diameters, 178mm, 273mm, and 399mm, to meet varying load requirements within the London Clay strata. This design approach allowed the team to optimise material use while ensuring structural performance.

An important sustainability feature of this project was the sourcing of steel tube piles. The supplier operates with a strong focus on the circular economy, repurposing steel tubes from the oil and gas industry as a high-quality alternative to newly manufactured prime steel products. This approach not only reduces environmental impact but also supports more responsible material use within the construction piling sector.

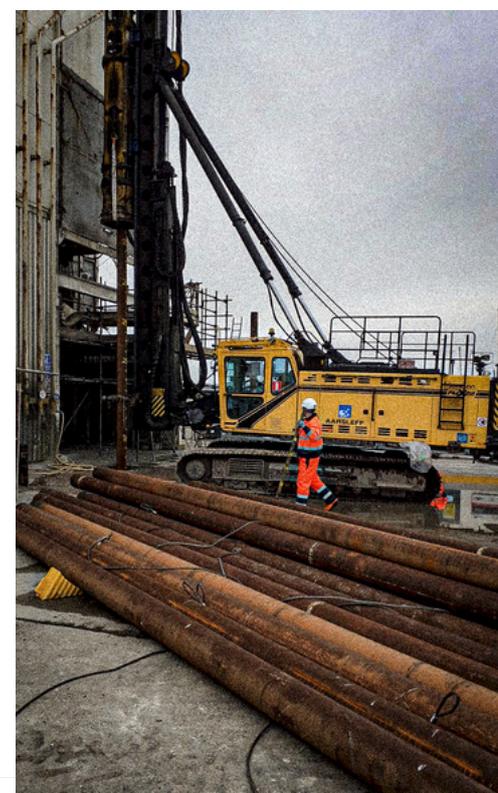
Although in-house design was not a major component of this driven piling scheme, the project still presented opportunities for value engineering.

Aarsleff introduced the use of an excavator fitted with a claw attachment to safely offload the steel tube piles. This method significantly reduced the need for working at height and allowed the piling rig to operate without interruption, helping the team meet daily production targets consistently.

Aarsleff's planning and delivery played a key role in enabling follow-on trades to begin work as scheduled. This contributed to the overall project remaining on track for its handover date. The site team also demonstrated strong project management by calling off the correct lengths and sizes of steel tubes in advance, which helped to minimise waste and avoid unnecessary costs.

Reflecting on the project, Jon Goodman, Contracts Engineer commented **“The site team planned the works well and their approach to material management was instrumental in delivering the project efficiently and cost-effectively.”**

This project highlights Aarsleff's ability to deliver technically sound, well managed piling solutions that add value through innovation, planning, and execution.



Data

328 no. 178/273/399mm dia. steel tubes

Client

Burden Brothers

Challenges

Technical challenges and tight timeframe

Contact

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