

Tilbury Docks Case Study

2,500 precast and steel tube piling solution for a warehouse and external machine storage.

Aarsleff successfully installed 2,500nr. precast & steel tubular piles consisting of 300mm, 339mm & 400mm diameter sized piles. The total pile meterage was approximately 40,000. The piling was required for the construction of a warehouse and external machine storage at Tilbury Docks.

The project required a structurally sound piling solution within a tight programme, necessitating continuous design development. Aarsleff collaborated closely with Careys through weekly design meetings, optimizing efficiency and adaptability. The specific pile diameter and reinforcement types are shown below.

- 300mm: Type 8, Type 12, Type 16
- 400mm: Type 16
- 339mm: Steel with up to 12mm wall thickness.

To address project-specific requirements, Aarsleff supplied Centrum cast piles, deviating from standard configurations for a tailored approach. A dedicated on-site supervisor ensured precision, efficiency, and seamless execution.

Aarsleff successfully integrated 400mm square piles into the project which offered the client a significant cost & programme saving vs. other foundation disciplines, demonstrating technical expertise and flexibility at the design stage. The proactive project management and ability to prioritize structures ensured piling operations remained on programme without compromising quality. The collaborative teamwork fostered through weekly meetings allowed for real-time design adjustments aligned with client needs.

Aarsleff's innovative solutions, technical expertise, and commitment to collaboration played a pivotal role in the project's success. By aligning with the client's objectives, they delivered an efficient piling solution, laying the foundations for a durable and reliable structure.



Data

2,500nr. precast & steel tubular piles consisting of 300mm, 339mm & 400mm diameter sized piles

Client

Careys

Challenges

The project required a structurally sound piling solution within a tight programme, necessitating continuous design development.

Contact

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