

Drilled piles for rental building in Fredericia

37 drilled piles as foundation for new rental building



AARSLEFF

In the centre of Fredericia, Aarsleff has carried out the foundation for a new rental building. Due to the poor condition of the adjoining building, we installed the drilled piles by means of the "vor der Wand" method, resulting in vibration-free and low noise drilling compared to driven piles.

Additional geotechnical investigations

Initially, the conceptual design was prepared on the basis of the existing geotechnical investigations. To verify the planned foundation in the area, these were supplemented with some additional geotechnical investigations which showed that the drilled piles had to be significantly longer due to an up to 4-metre-thick layer of compressible peat. The additional geotechnical investigations were carried out by our in-house specialists from Design & Engineering.

Precast reinforcement cages

As a special feature of the project, we used precast reinforcement cages for the drilled piles – cages, which were originally produced for standard 30x30-centimetre reinforced concrete piles. The reinforcement cages were supplied by Centrum Pile A/S in Vejle. We used precast reinforcement cages for piles with lengths of up to 12 metres, whereas we used HEB-profiles for longer piles.

As the foundation of the neighbour building was in a poor condition, we carried out vibration measurements, but as expected no vibrations exceeding the stated requirements were registered.



Data

- 37 DN630 mm drilled piles of lengths of 9-14,5 metres.

Client

Bent Ole Mortensen & Hinge
P/S

Contractor

Per Aarsleff A/S

Type of contract

Subcontract

Consulting engineer

Sweco A/S
Arkitekt-C ApS

Construction period

September 2019

Contract value

DKK 0.7 million

Aarsleff Ground Engineering is one of Europe's leading piling contractors, and we undertake a wide variety of piling, drilling and foundation projects in Denmark and abroad. We have offices in Poland, Sweden, Norway, Germany and the UK.

Our fleet covers hydraulic piling and drilling rig as well as cranes and vibrators.

Contact

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