



# Pinneberg

## Construction pits for residential and commercial building

### Data and facts

Company	PORR Spezialtiefbau GmbH
Type	Turnkey construction pits
Runtime	11.2023 - 08.2024
Principal	Quarterback Immobilien GmbH, Leipzig

[Project report online](#)

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# Waterproof construction pits for sustainable construction project in Pinneberg

## Precise planning to avoid collisions with existing piles

The construction pit, with an area of 6,500 m<sup>2</sup> and a depth of around 4 metres, is secured by 6,100 m<sup>2</sup> of cut-off walls with integrated prefabricated parts, as well as 181 temporary, partially removable anchors. For the deep foundations, the team from the PORR branch in Seevetal is producing 600 partial displacement bored piles, each 15 metres long. In addition, a residual water drainage system has been set up due to the high groundwater level.

As the previous building also had pile foundations, the old piles were measured to avoid collisions with the new piles and to ensure sufficient distances. The CFA piles used offer numerous benefits: they enable low-noise and vibration-free construction and reduce the costs of transport and disposal of the drilling material.

Team leader Sebastian Grote on the collaboration: 'We are very pleased that we were able to impress the client with high-quality execution and a cost-effective overall solution from a single source in this project as well. Good experiences from previous projects are always an advantage, but of course we have to deliver something new every time.'

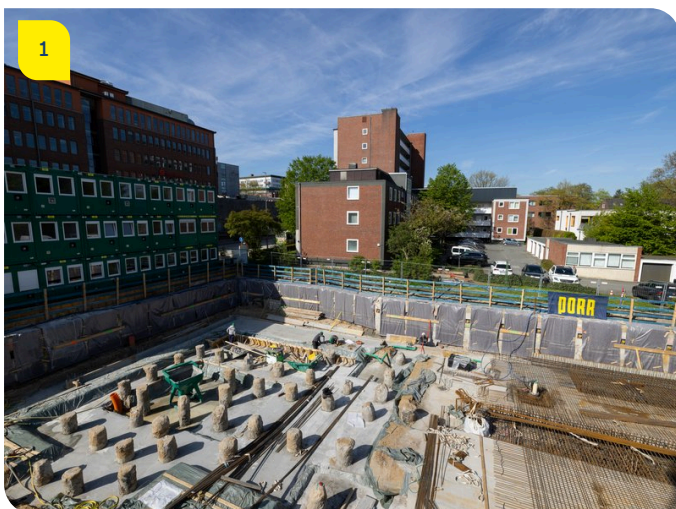
## New building meets ESG standards

On a floor space of around 15,000 m<sup>2</sup>, 165 apartments with one to five rooms, a daycare centre, as well as eight commercial units are being built at Friedrich-Ebert-Straße. The building complex consists of two connected structures with up to five full storeys and a penthouse floor. The façade facing the Pinnau will be terraced, while green spaces and newly planted trees will offer residents a quiet retreat.

QUARTERBACK is aiming for both DGNB certification and the Quality Seal for Sustainable Building (QNG) for the residential and commercial district. Measures such as green roofs and a solar energy system ensure that the efficiency house 40 NH class is met. In addition, the use of sustainable materials significantly reduces CO<sub>2</sub> emissions.

We were able to convince the customer by offering a one-stop solution and timely completion of the construction pit.

## Impressions



## Image notes

1

View of the construction pits with pile heads exposed.

2

The building plot in Pinneberg.

Do you have questions about the project or would you like to learn more? Feel free to contact us for further information.

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