

Zollkanal, Hamburg

Data and facts

Company	PORR Spezialtiefbau GmbH
Type	Rehabilitation
Runtime	01.2021 - 12.2022
Principal	Aug. Prien Bauunternehmung

[Project report online](#)

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Precise work in tune with the tides

Innovative 3D modelling prevents collisions

Before the sheet piling was installed, the historic quay wall was anchored in place with micropiles. A district heating tunnel and the micropiles for the nearby Wandrahmsfleet building protruded into the ground where the back-anchoring was to be installed. A 3D model produced by the Stump-Franki planning team made it easier to coordinate work by different trades and avoided anchor collisions. As is the case almost everywhere in the Hanseatic city, tidal conditions presented certain challenges in this project. At high tide, the micropiles' insertion points were underwater. At low tide, the working platform beached on the riverbed and could not be moved to the next drilling point. Despite this, all core drilling was completed precisely and on schedule. This was absolutely essential in this project because, once the sheet piling was in place, the micropiles were extended with a sleeve coupling on the water side and connected to the chord wall. Once the repairs were complete, the employer added a reinforced concrete quay head with a facing wythe to restore the quay wall's original appearance.

Impressions

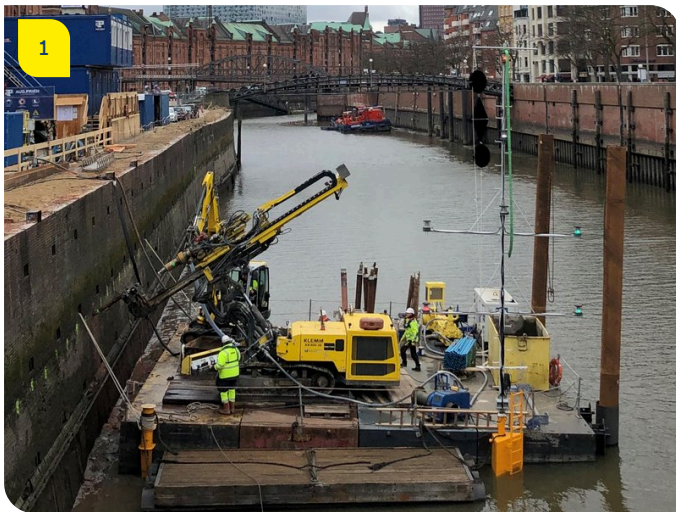


Image notes

1

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The historic quay wall was anchored from the pontoon with micropiles.

2

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On site, a new sheet pile wall was placed in front of the historic bank wall. The micropiles were then extended towards the water side using socket couplings and connected to the belt.

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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