



# Strandkai district, Hamburg-HafenCity

## Data and facts

Company	PORR Spezialtiefbau GmbH
Type	Turnkey construction pits, Foundations, Underpinning
Runtime	01.2018 - 12.2020
Principal	PE Strandkai GmbH & Co. KG

[Project report online](#)

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# Comprehensive specialist civil engineering services

Even though most of the construction area was sealed off from the Elbe by the old quay walls, the construction pit was secured with 5,600m<sup>2</sup> of sheet piling on the west and south sides and 1,564 jet-grout columns were used to further seal off the areas between the sheet pile profiles. The east side was secured by 640m<sup>2</sup> of bored pile wall with inner bracing. An anti-flood mound was built in the construction area to secure the site facilities and equipment in case of flooding.

## Secure pile foundations

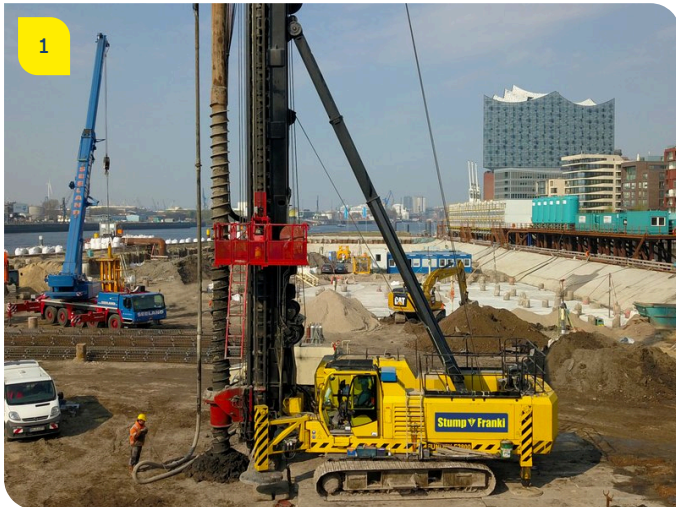
The shared underground car park under the four buildings was founded on partial displacement bored piles with the aid of a Fundex drilling rig. The Stump-Franki team placed a total of 1,610 piles in the medium-dense to dense sands below the soft strata and drilled an additional 200 clearance holes in the area where the existing structures were located.

There were a number of special requirements: for one, the team had to carry out the work without damaging the anchors that were already in the subsoil. They also had to keep a constant eye on flood forecasts. In addition, an emergency plan was in place in case of a storm surge.

## Execution planning and realisation from a single source

The subsidiary Stump-Franki Planung was responsible for the approval and execution planning of the pile foundation and for the works and installation planning of the construction pit walls. Working in tandem, the two companies realised the project successfully and safely.

## Impressions



## Image notes

1

Quartier Strandkai, Hamburg-HafenCity

The Strandkai district is located on a peninsula enclosed on three sides by the waters of the Elbe.

2

Quartier Strandkai, Hamburg-HafenCity

PORR placed a total of 1,610 piles.

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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