



Europahafenkopf development, Bremen-Überseestadt

Data and facts

Company	PORR Spezialtiefbau GmbH
Type	Foundations
Runtime	08.2019 - 10.2019
Principal	ZECH Bau SE, Bremen

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Europahafenkopf development

more densely packed sand layer. This presented a particular challenge to the experts at Stump-Franki, but they were able to solve the problem using the company's own pile system: the Frankipfahl NG®.

A pile foundation alongside existing buildings: less vibration, noise and emissions with Frankipfahl NG® piles

The Frankipfahl NG® pile was the ideal system for this inner-city construction scheme in Bremen-Überseestadt, with 200 Frankipfahl NG® piles successfully manufactured at the Europahafenkopf site. Many of these were bored in very close proximity to other office buildings, a parking garage and a hotel. Vibration measurements conducted during the construction process confirmed that the manufacture of the Frankipfahl NG® piles caused no damage to the surrounding structures. Driving energy was able to be individually controlled by varying the height of fall of the drop hammer, and pre-established vibration limit values were adhered to at all times. A new control system simplified the execution process, with progress recorded using state-of-the-art measuring equipment. Controlling the height of fall and precision planning of the various construction processes also meant that noise could be kept to a minimum during the foundation works. Another plus: owing to the contained internal driving method, the Frankipfahl NG® piles were fabricated with very low emissions.

Impressions



Image notes

1

The high structural load of the building complex and the distinctive subsoil conditions necessitated the execution of a deep pile foundation.

2

200 Frankipfahl NG® piles were successfully manufactured at the Europahafenkopf site.

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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