



SOLID Home, Frankfurt am Main

Data and facts

Company	Stump-Franki Spezialtiefbau GmbH
Type	Turnkey construction pits, Foundations
Runtime	09.2017 - 05.2018
Principal	Bauwerk Capital GmbH & Co. KG und der Red Square GmbH

[Project report online](#)

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Construction pit for a 66m-high residential tower

quaternary gravel sand, Pliocene sand and clay soils and tertiary clays. The planned construction pit featured a depth of approx. 12m and was designed to contain four underground floors. Our team executed the shoring walls as double-anchored cast in situ concrete diaphragm walls to a depth of 23m, embedded into the sealing layers of Pliocene clay.

A solid foundation of bored piles

The 66m-tall tower is supported by over 20m-long large-scale bored piles as elements of a combined plate-pile foundation structure. The large-scale bored piles were manufactured using an empty bore to approx. 12m in a slurry-supported process.

A focus on economic viability

During close discussion and consultation throughout the offering phase, the client was impressed by the expertise of our specialist civil engineering team, which enabled considerable savings in time and money. This included factors such as the prior negotiation of necessary agreements with the authorities and timely explorations of the construction site, both of which measures prevented loss of time during later execution. Planning services were provided by Stump-Franki Planung, and the plans ensured that the diaphragm wall, anchoring and bored pile foundation constructions were all economically optimised.

Impressions

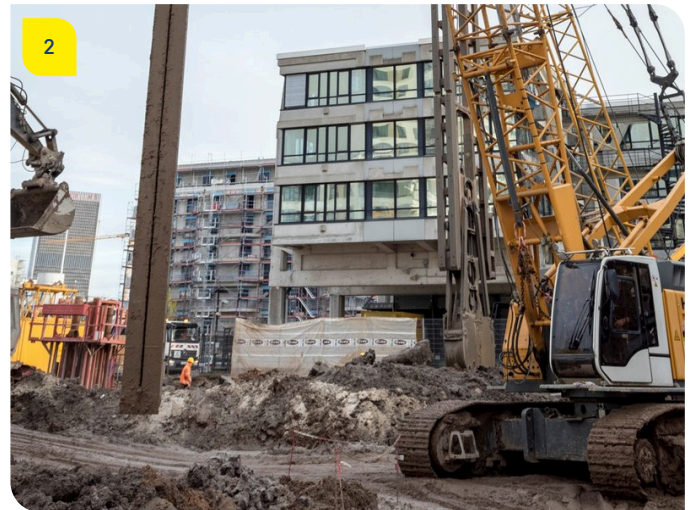


Image notes

1

The SOLID Home residential complex comprises around 200 apartments in Frankfurt's Europa district. Stump-Franki worked in consortium to create the construction pit for the high-rise.

2

The 66m-tall tower is supported by over 20m-long large-scale bored piles as elements of a combined plate-pile foundation structure.

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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