



# Sophienkontor, Kiel

## Data and facts

<b>Company</b>	PORR Spezialtiefbau GmbH
<b>Type</b>	Turnkey construction pits
<b>Runtime</b>	08.2019 - 04.2020
<b>Principal</b>	Sophienblatt Projektentwicklungs- gesellschaft mbh & Co. KG

[Project report online](#)

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# Planning and execution of an inner-city temporary construction pit system

This change of plans included a switch from an 80cm bored pile wall to a 60cm diaphragm wall, representing a saving of approximately 20% of the concrete originally allocated. 3D planning and visualisation of the construction pit and anchoring played a significant part in the efficient and economical execution of the construction on site. This process reduced incidences of collision between new anchors and existing piles beneath the adjacent buildings. Probing of the construction soil revealed the precise location of the sealing marl layer, and the diaphragm wall lengths were able to be precisely determined.

## Limited space called for high precision

A particular challenge was presented by the limited space available on the 1,800m<sup>2</sup> construction site. This required great care and precision from the PORR team. In some places, the distance between the diaphragm wall gripper and the neighbouring building was as little as 10cm. Owing to the limited space, no additional protection could be inserted. Markus Wenke, Regional Manager North at PORR Spezialtiefbau GmbH, and project head Sebastian Grote had this to say about their collaboration: "That this challenging project was able to be completed on schedule is entirely due to an incredible team spirit among all project participants, beginning with project developer Urban Space and including the offices of Florian Fischötter Architekten as well as our own in-house planning and construction execution department."



# Impressions



## Image notes

1

### Sophienkontor, Kiel

The construction site is located in the city centre opposite Kiel railway station.

2

### Sophienkontor, Kiel

The diaphragm walls are constructed vibration-free directly in front of existing buildings.

3

### Sophienkontor, Kiel

View of the finished construction pits with diaphragm walls anchored back.

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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