



Primary school expansion, Wesel

Data and facts

Company	Stump-Franki Spezialtiefbau GmbH
Type	Foundations
Runtime	01.2022 - 03.2022
Principal	Hansestadt Wesel

[Project report online](#)

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Pile planning with measurable additional benefits

113 large-diameter bored piles measuring 800mm and 600mm in diameter respectively. Our specialist civil engineering experts proposed the use of full-displacement piles, or the Atlas system, as an economical, fast and environmentally friendly alternative solution. The increased skin friction of these piles enables them to bear greater loads, and the reduced consumption of concrete and the absence of excavated material makes them an especially sustainable option.

The suggestion to replace the bored piles 1:1 with the more slender Atlas piles was well received, and as a result no planning changes were required in the construction. As an additional benefit, the use of Atlas piles reduced the stress on the entire school community and local residents. With this method, the construction period was shorter, no lorry transport was required for excavated earth, fewer loads of concrete were delivered to the construction site, and the entire manufacturing process was vibration-free and generated little noise.

Impressions

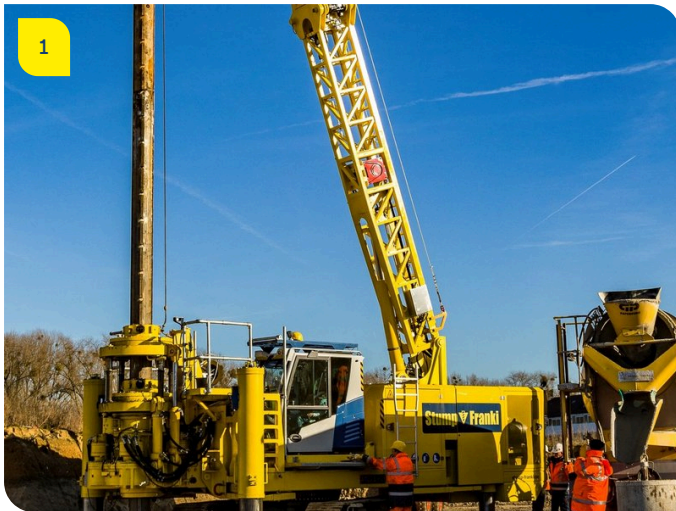


Image notes

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Our specialist civil engineering experts proposed the use of full-displacement piles, or the Atlas system, as an economical, fast and environmentally friendly alternative solution to the originally planned large-diameter bored 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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