



L924 Fellerstrasse, Velbert

Data and facts

Company	PORR Spezialtiefbau GmbH
Type	Underpinning
Runtime	03.2022 - 06.2022
Principal	Heitkamp Erd- und Straßenbau GmbH

[Project report online](#)

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Slope securing using soil nailing and a jetcrete shell

and then use soil nailing methods and a jetcrete shell to secure the slope – all within the planned construction period. The jetcrete method can be adapted to suit any topographic situation. In combination with soil nailing, this procedure protects the slope and prevents falling scree and landslides. PORR was able to supply general type certification for the soil nailing system, and the task of executing these works was a safe, secure and routine procedure for our team. The process was completed quickly and economically.

The slope securing measures extended to a height of approx. 5m and were implemented in four separate locations. Each section was stabilised with 7.25m-long soil nails driven into a 25cm-thick reinforced jetcrete shell. Owing to the property ownership situation, we were not able to construct an access road along the side of the valley. As a result, the only access to the construction site was via the narrow bottleneck of Fellerstrasse. This difficult situation added to the challenge of working on the construction site, but the hurdle was successfully overcome via constant and close consultation between all project participants.

Impressions



Image notes

1

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Following storm damage, PORR was commissioned to secure the slope with soil nailing with a shotcrete shell as part of the road renovation.

2

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The height of the slope stabilisation was approx. 5 m and was constructed in four layers. Each layer was stabilised with 7.25 m long soil nails.

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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