



Logistics centre, Buttenwiesen

Data and facts

Company	PORR Spezialtiefbau GmbH
Type	Underpinning
Runtime	10.2021 - 04.2022
Principal	Dreßler Bau GmbH, Aschaffenburg

[Project report online](#)

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Stabilising a slope with a jetcrete wall

low-vibration, and environmentally friendly solution to stabilising construction pits and slopes. The bond between the soil nails and the jetcrete shell increases its load-bearing capacity, and the construction pit walls can absorb even very high earth pressures. The greatest advantage is that the structure can be flexibly adapted to steep terrain geometries and individual floor plans. The specialist civil engineering team has played a major role in the development of soil nailing and has general planning approval for its System (Z-20.01-104). The 2,600m² area in Buttenwiesen was secured in a very short time using the wet mix method selected on site. The retaining structure rises up to an impressive height of 18m. As some areas of the cohesive soil were interspersed with cohesive sand lenses, only small sections of the jetcrete shell could be exposed in places and the soil nails had to be set in a close-meshed grid in these areas. The wall was temporarily protected from low temperatures with the aid of protective sheets and heating so that the team could continue the work during the winter.

Impressions



Image notes

1

Logistics centre, Buttenwiesen

Construction of an approx. 220 m long shotcrete wall anchored back with 1,200 soil nails using the wet shotcrete method for slope stabilisation.

2

Logistics centre, Buttenwiesen

Construction of an approx. 220 m long shotcrete wall anchored back with 1,200 soil nails using the wet shotcrete method for slope stabilisation.

Do you have questions about the project or would you like to learn more? Feel free to contact us for further information.

PORR AG Group Communications

Absberggasse 47

1100 Wien

T +43 50 626-0

E-Mail: comms@porr-group.com