

# Specialist Press Release

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## **Bauer involved in construction of Frankfurt residential quarter WESTVILLE**

**Frankfurt am Main, Germany** – On the west side of the Gallus district of Frankfurt, a residential quarter is being constructed with more than 1,300 apartments, a two-story underground garage, daycare centers as well as commercial and retail units. BAUER Spezialtiefbau GmbH was commissioned by BST Becker Sanierungstechnik GmbH, on behalf of the owner Instone Real Estate, with the construction of an impermeable mixed-in-place (MIP) retaining wall with a single-layer tie back.

Bauer constructs the retaining structure for construction sections WA 5 to WA 7. In total, approximately 12,000 m<sup>2</sup> of static retaining wall is being constructed up to a depth of 18 m. “To ensure the possibility of easy dismantling, the top 2 m of the retaining wall is mostly constructed with timber lagging extending approximately 1,200 m<sup>2</sup>,” explains Bauer Site Manager Arno Schebaum. “For quality assurance of the retaining structure, inclinometer measuring points are set up, anchor load measurement cells are installed and a deformation check is carried out.” In addition, temporary anchors of up to 30 m in length are constructed to tie back the retaining structure. This work involves approximately 5,000 m of drilling. An RG 16 T and an RG 25 S are used for the mixed-in-place work to construct the retaining structure. A KLEMM KR 806 is used for the installation of the anchors.

The advantages of the MIP construction method are the shorter execution time as well as its sustainability, because the building material is produced on site using the existing soil as an aggregate. This significantly reduces not only the delivery time of the materials, but also the time needed for removal of the excavated material and thus the emission of greenhouse gas.

The work executed by Bauer began in February this year and will continue until August 2021. The new residential quarter WESTVILLE on Kleyerstrasse, on the grounds of the former Avaya site, is expected to be completed by mid-2025.

**Image: 2021-08\_BAUER\_WESTVILLE project Frankfurt**



An RTG RG 25 S is used for construction of the MIP retaining structure with single-layer tie back. © BAUER Group

### **About BAUER Spezialtiefbau Group**

BAUER Spezialtiefbau GmbH, the original parent company of the BAUER Group, has been a major driving force in the development of specialist foundation engineering. It carries out all of the customary processes of foundation engineering, primarily for excavation pits, foundations, cut-off walls and ground improvements on a worldwide basis. In doing so, BAUER Spezialtiefbau GmbH works closely together with their over 50 subsidiaries and branches across the globe. Regional networks around the world allow for the quick and flexible application of machines, teams and expertise. Bauer Spezialtiefbau offers their customers individual, creative and economical specialist foundation engineering solutions for demanding construction projects, from planning through to execution. More at [bst.bauer.de](http://bst.bauer.de)

### **About Bauer**

The BAUER Group is a leading provider of services, equipment and products dealing with ground and groundwater. With over 110 subsidiaries, Bauer can rely on a worldwide network on all continents. The Group's operations are divided into three forward-looking segments with high synergy potential: Construction, Equipment and Resources. Bauer profits enormously from the collaboration of its three business segments, enabling the Group to position itself as an innovative, highly specialized provider of products and services for demanding projects in specialist foundation engineering and related markets. Bauer therefore offers suitable solutions to the world's greatest challenges, such as urbanization, the growing infrastructure needs, the environment, as well as water, oil and gas. The BAUER Group was founded in 1790 and is based in Schrobenhausen, Bavaria. In 2020, it employed about 11,000 people in around 70 countries and achieved total Group revenues of EUR 1.5 billion. BAUER Aktiengesellschaft is listed in the Prime Standard of the German Stock Exchange. More information can be found at [www.bauer.de](http://www.bauer.de). Follow us on [Facebook](#), [LinkedIn](#) and [YouTube!](#)