

Specialist Press Release

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Contact:
Ruth Wallner
BAUER Aktiengesellschaft
BAUER-Strasse 1
86529 Schrobenhausen, Germany
Phone +49 8252 97-1844
public.relations@bauer.de
www.bauer.de

Construction of an excavation pit in the tightest of spaces

Munich, Germany – In the trendy Glockenbach district, not far from the Munich city center, a new residential building with a two-story underground parking garage is being constructed. One might imagine that this is nothing out of the ordinary, but this project packs a punch: The site is situated in a rear courtyard, where buildings have recently been demolished, and is only accessible via a single house entrance. Material and equipment cannot be transported via a site entrance as is usual, but must instead be lifted into the rear courtyard by crane.

As part of the inner-city project, BAUER Spezialtiefbau GmbH was tasked with the construction of the excavation pit for the residential building by FGF Verwaltungs KG. “A total of 348 piles with lengths between 8 and 13 m are constructed as a pile wall for the retaining structure,” reports Stefan Ferstl, Operations Manager at Bauer Spezialtiefbau. The work is carried out using the Front-of-Wall (FoW) method. This means that the piles are installed adjacent to the existing buildings. In addition to this, Bauer is responsible for the pit excavation, the single-layer strut for the excavation pit, and for dewatering.

Before work could commence, the required material as well as a drilling rig – a BAUER BG 20 H weighing 42 t – needed to be lifted over the adjacent buildings and into the rear courtyard. To be able to realize this at all, the mast of the rig first needed to be dismantled – in total, a BG 20 H generally weighs around 54 t including the mast. A 500 t truck-mounted crane was deployed for the backyard lifting task. “Our works will take around six weeks; completion of the pit including subcontractor services is scheduled for spring 2021,” concludes Stefan Ferstl.

Watch the video at <https://youtu.be/enbq1mXPBbE>

Images: 2021-02_BAUER_Excavation+pit+Munich ...



(1) The BG 20 H had to be lifted into the backyard by a truck-mounted crane.



(2) Above the rooftops of Munich's Glockenbach district



(3) A total of 348 piles with lengths between 8 and 13 m will be installed as a bored pile wall for the retaining structure using a BG 20 H.

All images: © 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



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 2019, it employed about 12,000 people in around 70 countries and achieved total Group revenues of EUR 1.6 billion. BAUER Aktiengesellschaft is listed in the Prime Standard of the German Stock Exchange. More information can be found at www.bauer.de. Follow us on [Facebook](#), [LinkedIn](#) and [YouTube](#)!