

Specialist Press Release

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Bauer Spezialtiefbau GmbH constructs excavation pit for a new indoor skydiving facility

Viernheim, Germany – In 2021, one of the most modern indoor skydiving facilities in the world is being constructed in the West German town of Viernheim, situated in the industrial Rhine-Neckar metropolitan region. Building on their experience with the construction of indoor skydiving facilities in Bottrop in the region of North Rhine Westphalia, as well as in France, Spain, Norway, and Poland, Indoor Skydiving International GmbH from Gladbeck is now constructing another indoor skydiving facility with a 220 km/h airstream that will simulate the feeling of a real skydive.

BAUER Spezialtiefbau GmbH was tasked with the execution of foundation works for this project. The relatively small, rectangular excavation pit over an area of a mere 200 m² was secured with double-anchored, impermeable Mixed-in-Place walls (MIP) with a diameter of 0.55 m. The MIP walls were created using an RTG RG 25 up to a drilling depth of 16 m, and the structural king piles were vibrated into the fresh MIP wall with an RTG RG 19 T. The grouted anchors, with four to six strands and a length of approx. 17 m, were created with a KLEMM KR 806 using the rotary percussive drilling method. In order to seal the excavation base from the Quaternary aquifer sands, a low lying BAUER LWS silicate gel base with a thickness of 1 m was realized. An RG 19 T was used for installation of the injection pipes, and a vibrator lance was sunk into the construction soil using an RTG MR 150 hydraulic vibrator.

“From the very beginning, a cooperative partnership with the owner was the ultimate key to the project success. Joint development of the technical concept for the creation of the excavation pit started back at the sales stage,” explains Martin Ellebracht, Head of the Rhein-Ruhr office of Bauer Spezialtiefbau. “The tender phase and customer support were provided by the colleagues of the Rhein-Ruhr location in Essen due to their close proximity to the customer. The construction project was operated by the site management of the Rhine-Main location in Kelsterbach. The construction time agreed with the customer was adhered to as requested.”

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



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(2) The grouted anchors, with four to six strands and a length of approx. 17 m, were created using the rotary percussive drilling method.

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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](#)!