

FLEXWELL FHK project, Berlin, Germany 2018

Case Study



Location
D-Berlin

Product
FHK 200/310 1900 m

Flexwell FHK-project Berlin 2018

Case Study



Project situation

In winter 2017, BTB (Blockheizkraftwerks-Träger und Betreiber-Gesellschaft Berlin GmbH) planned a district heating line to open up a new residential construction project referred to as Bohnsdorf. BTB is one of the largest district heating operators in the Berlin area. The company has been around for 25 years and boasts a district heating network with a line length of approx. 160 km. The main area supplied is the Treptow-Köpenick district in the south-eastern part of Berlin. The supply is generated and distributed by a power station network made up of the Adlershof and Schöneweide sites. In the aforementioned neighbourhood, a line length of 2.2 km to the feed in the Bohnsdorf area needed to be implemented (see general plan diagram).

Challenge

One major challenge for the builders was crossing the A117 autobahn with its slip road and exit. As BTB already had experience of using FLEXWELL district heating cables (DHC) with the directional drilling method, this technology was the preferred solution and after professional planning work, this remained the case. BTB opted for five directional drilling sections in total. For this, directional drilling lengths of 150 m–190 m were implemented with delivery lengths of 165 m–235 m. Despite the unfavourable ground conditions, all sections were inserted on time. Around 1900 m of DHC 200/310 were installed overall for this building project.

Challenges included the reloading processes and delivering the drums with a diameter of up to 5.10 m in advance at the motorway interchange (see photo). Short-term problems during the implementation of the building project were resolved in a targeted manner and confidently during the weekly meeting with the builder, the civil engineer, the directional drilling company, the pipe builder and BRUGG Rohrsysteme GmbH. The successful management of the project was a real team effort, from material provision, production, technical planning, (Wolfgang Nehr Korn) and order processing (Carola Rust) right through to installation (Uwe Wilhelms and Mario LeClaire). A big thank you to all involved!

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