

# Flexwell-project Berlin-Buch 2019

Case Study



**Location**  
D- Berlin-Buch

**Product**  
FLEXWELL FHK 147/220, DN 125 820 m

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## Case Study



### Project

At the beginning of November 2019, FLEXWELL district heating cables were laid in Berlin-Buch, which was unusual for us. Only a few, long-standing employees remembered a building project more than 20 years ago in Potsdam, where FLEXWELL district heating cable 147/220 had already been laid using the cable ploughing method. This type of installation is particularly suitable for longer distances between residential areas, it is particularly fast and environmentally friendly. Understandably, this requires unpaved areas that are hardly to be found in the urban environment. While the ploughing method is quite common for laying cables of all kinds, cable protection pipes, drinking water, wastewater and gas lines, it is rarely used in the area of district heating.

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### The building project

Our customer, Vattenfall Wärme Berlin AG, had to establish a 400 m long connection to the existing district heating network in order to connect the residential area called „Allees des Chateaux“. The quarter is located in the local recreation area of Barnim which borders Berlin to the north-east. After consultation with the Berlin Forests Authority and the Environmental Office in Pankow, the route was selected to run under the Buch Forest. The decision was made in favour of FLEXWELL district heating cables and the environmentally friendly ploughing method. FLEXWELL was chosen because the pipe is available in a complete length of 410 m and neither socket connections nor expansion absorption measures would be necessary along the route. In addition to the short laying time, other factors in favour of the ploughing method were the lack of topsoil removal and only little soil compaction. In order to protect the standing trees, the lines were to be laid underneath a forest path which is already intended for reconsolidation.

### Carrying out the work

On 4 November, 2 drums each holding 410 m of FLEXWELL district heating cable FHK 147/220, DN 125 were delivered to Berlin-Buch by flatbed truck. The drums were unloaded by crane and then lifted into our drum trailer. Then the pipe was then pulled off along the future route and laid out.

The plough arrived on 6 November and started work early on 7 November. Ploughing in of the FLEXWELL district heating cables totalling 820 m in length was completed without any problems within only one day.

Photos X21.de – Reiner Freese