

Installation of SURLINE®II - gas supply pipeline in Gersfeld (Germany)

Project description

The city Gersfeld in the Rhön should be connected to the gas supply network of the gas and water supply Fulda (GWV). There should be installed a transmission line with 150 mm inside diameter of about 6 km length, and a working pressure up to 10 bar.

Due to the fact that the underground route could be installed without bigger barriers, the economic technique of trenchless installation was favoured. With this procedure, an effort of installation up to 1.500 m per day can be achieved. Due to the trenchless and sandbed-free installation there have been high requirements to the raw material and GWV-Fulda decided to use a Sureline-pipe of AGRU-FRANK GmbH in Wölfersheim. The special pipe is designed for such applications and provides optimum protection from the occurring point and line load.



Abb. 1: Countryside of Rhön, with the prepared pipes

Even for installation procedures, in which the pipe does a relative motion to the existing ground, e.g. at pipe bursting or like in this case at the horizontal direct drilling (HDD) or plowing, the Sureline-pipe is optimally adapted for such an application. The pipe is made of a 100% PE 100 VRC-material which is resistant to crack and therefore offers the highest possible security for companies and construction sites.



Abb. 2: Plowing of Surline II - pipeline at the roadside

Installation via plow of approx. 3.500 m and approx. 2.500 m via horizontal direct drilling (HDD).



Abb. 3: Target of HDD. The pipe come to light.

Delivery volume

- 6.120 m Surline® II gas pipe, dimension 180 SDR11

Services of FRANK

- ✓ delivery of complete pipes
- ✓ technical advise

Construction

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Partner

Trader

Richter & Frenzel, Petersberg

Constructor

GWV Fulda

Construction company

Muthig Leitungsbau, Jossgrund

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