

The Brandenburger Record Liner: Krakow 2.0

New conditions, New challenge: This was our motto for the order to produce the Brandenburger Liner **BB²⁻⁵**. No standard liner, no standard transport, and no conventional production. During the preparation of this gigantic project, each and every process step had to be checked and implemented for the new record weight.



Transport of the liner with a total weight of 43 tonnes

Pipe liners of up to 20 tonnes have been regularly produced and installed for several years now. UV pipe liners with more than 40 tonnes are new to the market, however, and raise the UV-technology to a completely new level. It took us 24 hours to produce all 285 meters of the DN 1500. The record pipe liner needed to be installed before Easter, so we worked around the clock at the weekend in order to meet the set target. Our efforts proved successful, and on Monday morning, 23th of April, 2018, we loaded it punctually onto a heavy transporter in the yard at Brandenburger.

Work was finished on time

Because the construction site was already familiar to us from 2016, the preparation, delivery, and installation of the liner passed without incident. In order to guarantee the absolute safety of all those involved, the UV crew, normally consisting of four employees, was expanded. Using a conveyor belt and 20 tonne winches (max. pulling force 16 tonnes), only three hours were needed to draw in the liner, which weighed 150 kg/m.

Curing equipment with 12 x 1000 watt was employed to cure the liner. Another suspected record was the curing time of 22 hours. This required thorough planning on behalf of personnel, so that the operation could always be monitored.

The pipe liner was ready in time for Easter. It was then checked comprehensively. Everyone was happy with the result, and the path was paved for the rehabilitation of the two adjacent pressure lines for drainage.



Special packers simplify installation

At the beginning of this year, a collaboration was agreed between Vorbatec and Brandenburger Liner. This made their special packers in lightweight construction available for this unusual project. These stand out with their low weight, which makes it much easier to install them in the pipe liner. This not only simplifies the use of the light chain: the waste in the packer area can also be considerably reduced.

BB^{2.5} - improved specifications

The specifications of the BB^{2.5} Liner were increased last year. In the current DIBt approval (as of: 2017, valid until 2022), the short-term modulus of elasticity in the range DN 875 – DN 1600 was increased to 16.875 N/mm² for BB^{2.5}.

This significant development results in savings of at least one wall thickness increment for nearly all diameters.



UV shaft liners

Shaft rehabilitation using UV liners has been known for some time. In collaboration with our Research & Development department, we have succeeded in making this process even more efficient.

One feature is a hose application that can adapt to the various dimensions and geometries in a standard shaft, without having to measure the shaft beforehand.

House sewer rehabilitation using UV light

For a specialist in UV curing, an obvious next step is to deal with the current trend of UV rehabilitation in the house sewer.

The first curing processes have been successfully completed, and the test catalogue for DIBt approval has been initiated already.