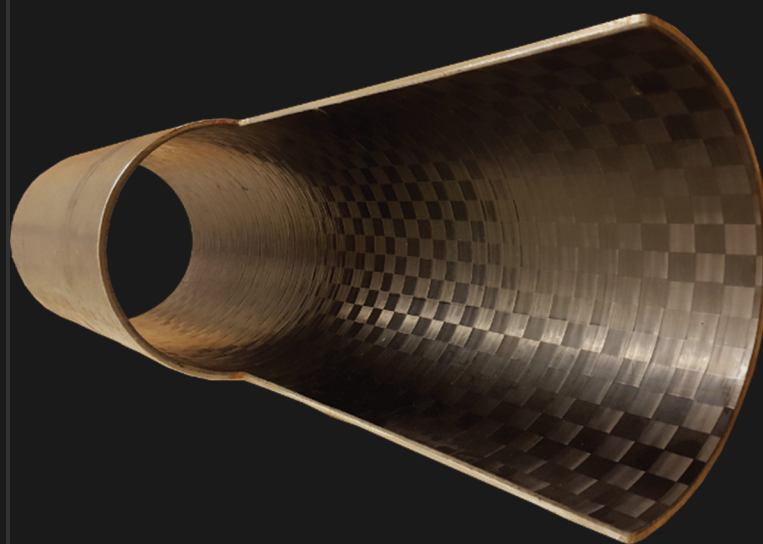




# The 1st Relining Solution for District Heating Pipes



**Fast, Simple and Sustainable**

**Renewal of subterranean service pipes  
and structures with minimal or no  
excavation**

# Faster, Cheaper, Greener

**Reduce CO<sup>2</sup> footprint by at least 80% during replacement process with CarboSeal®**

## 01 About CarboSeal®

While rehabilitating old pipes with CarboSeal®, the old pipe remains in the ground, with no need to excavate or refill the area nor to take care of the old pipe. By avoiding excavation, the carbon footprint of producing, installing and refilling is reduced by at least 80%. The system is designed to completely take over the workload of the host pipe, leaving it fully renewed. Distances of up to a few hundred meters can be rehabilitated in one working day, with little or no excavation. Fast, simple and sustainable.

- ✓ Withstands 130°C and 16 bar pressure or more
- ✓ From DN 100 to DN 800 (other DN available on request)
- ✓ Resists hydrolysis
- ✓ No loss of fiber surface properties over time
- ✓ Long-term resistance to high-temperature water

## 02 Non-invasive

The underground pipe system is renewed without disturbing the activities above the pipe. Traffic, businesses, and other activities is left uninterrupted during the process. It is a fast, cost efficient and sustainable solution for district heating pipe system rehabilitation.

## 03 Verified

Thorough work by Research Institute of Sweden (RISE) and other partners PPR has proved that CarboSeal® can overcome the issues encountered by conventional trenchless technologies when applied to district heating pipes.

## 04 Installation steps

1. Opening and cleaning the host pipe
2. Inspection and dimension control
3. Pull in the liner
4. Curing the liner with steam
5. Reconnecting the renewed pipe

More information on [CarboSeal.com](https://carboseal.com)