Trenchless
District Heating Pipe Refurbishment

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PPR
Relining for District Heating

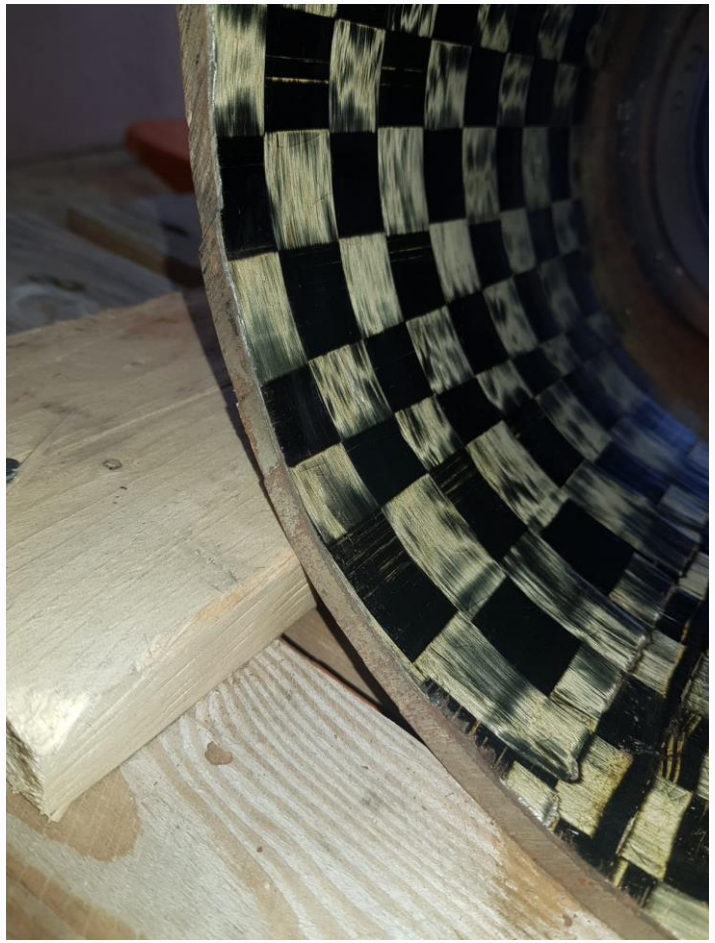
TeXtreme

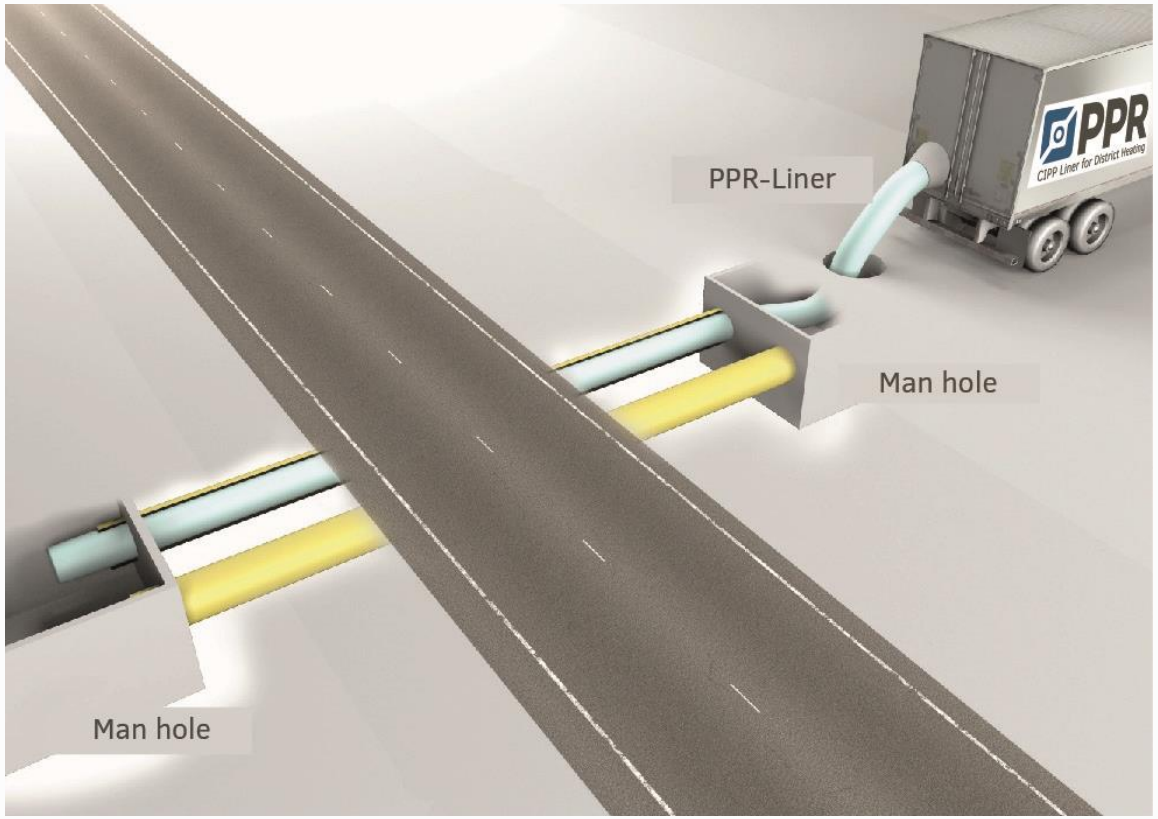
SCUDERIA FERRARI
ALFA ROMEO
XCDS
brembo
NGK

BELL

PUMA
TAG HEUER
17
ORACLE TEAM USA

KING
cobra





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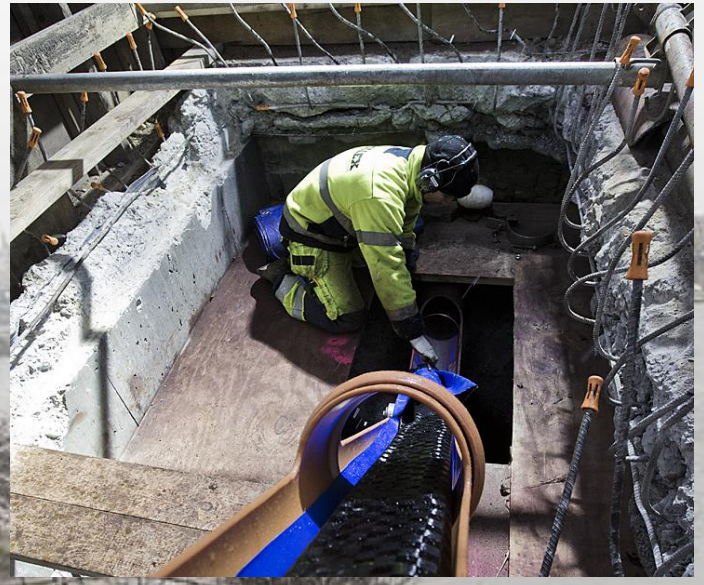
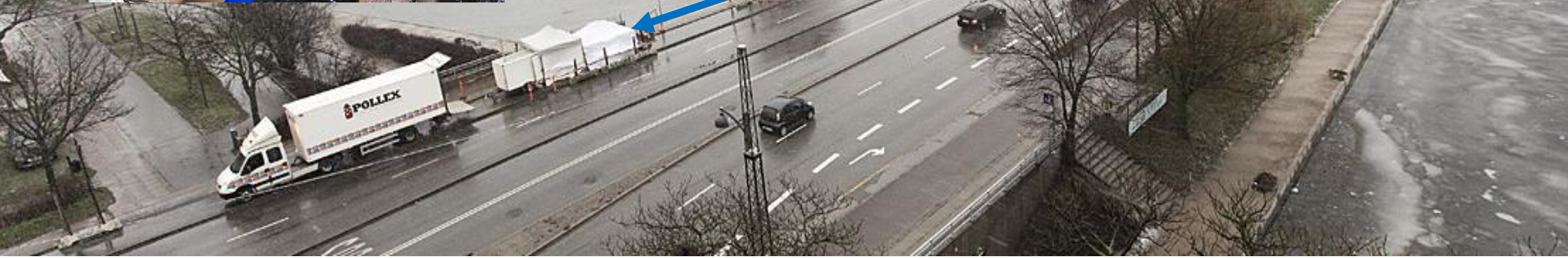
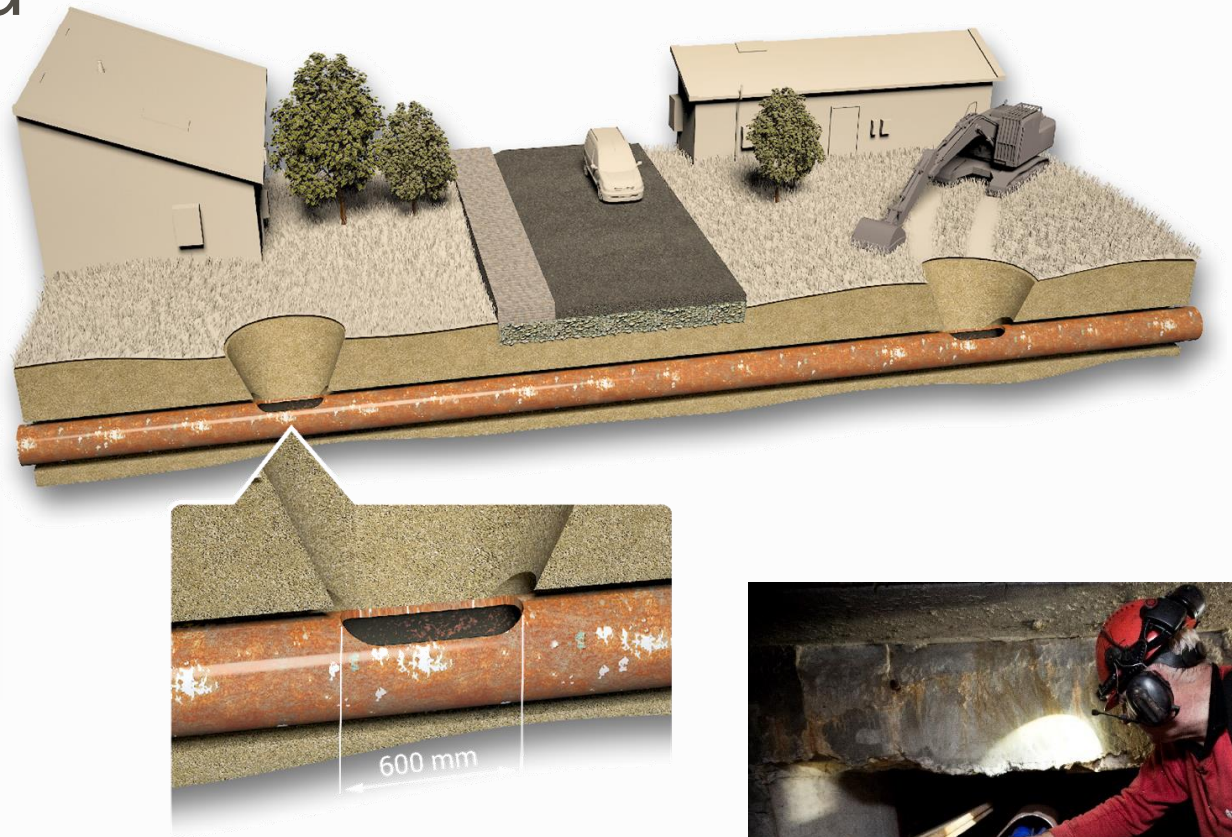
HOFOR, Copenhagen
1x170 meter DN200





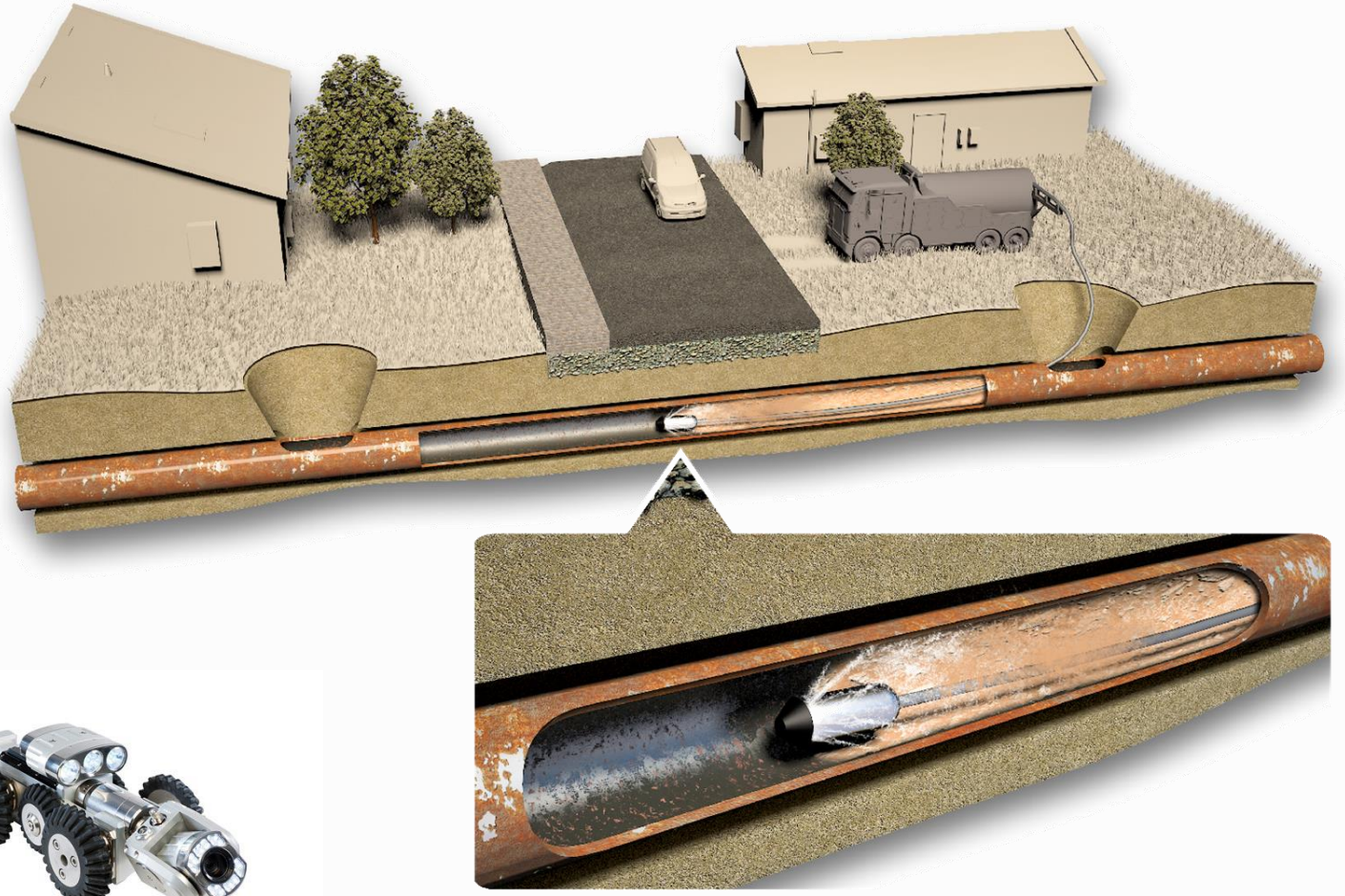
Installation Method



Access through manholes or small controlled trenches.

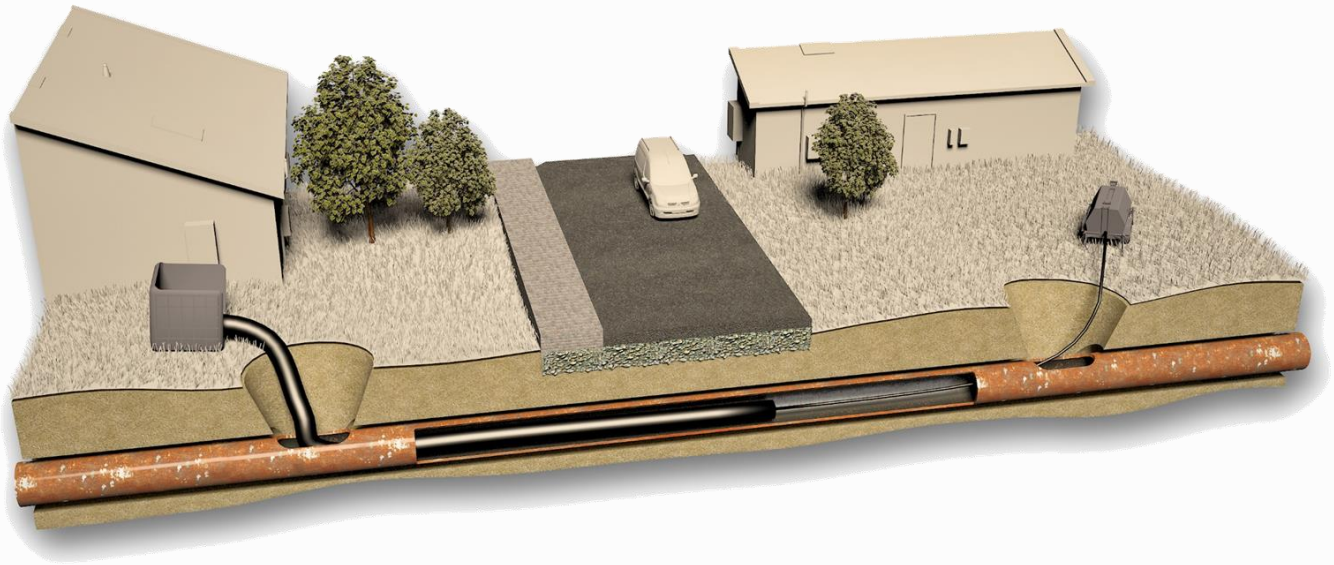
No need for full axial cut, only 600 mm openings are made to allow for cleaning and entry.

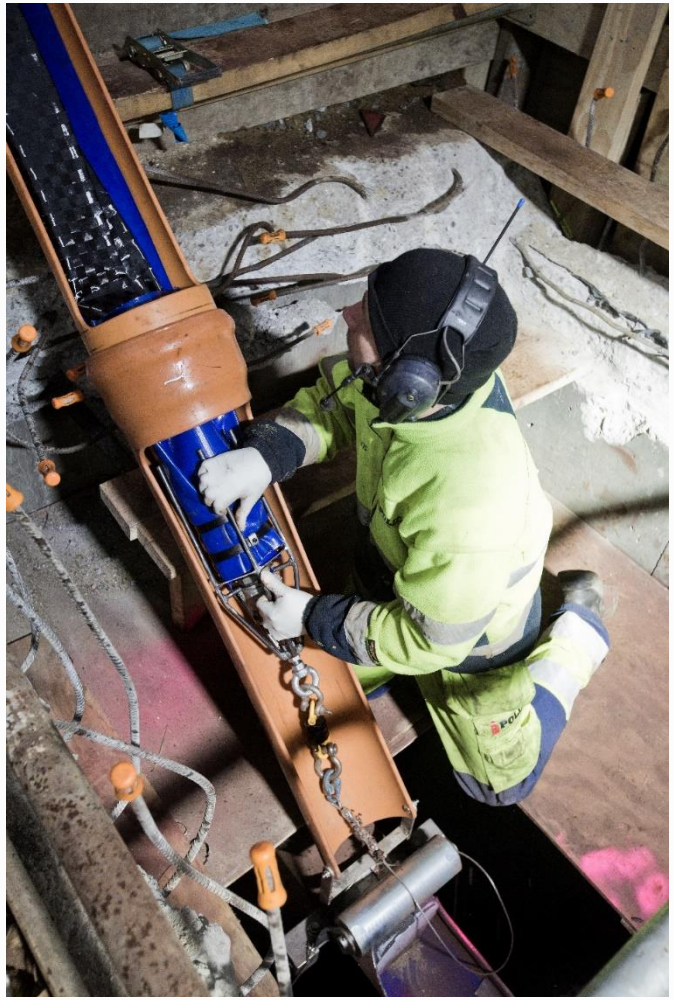
Installation Method



Cleaning the pipe by high pressure water flush and/or poly pig and perform inspection

Installation Method

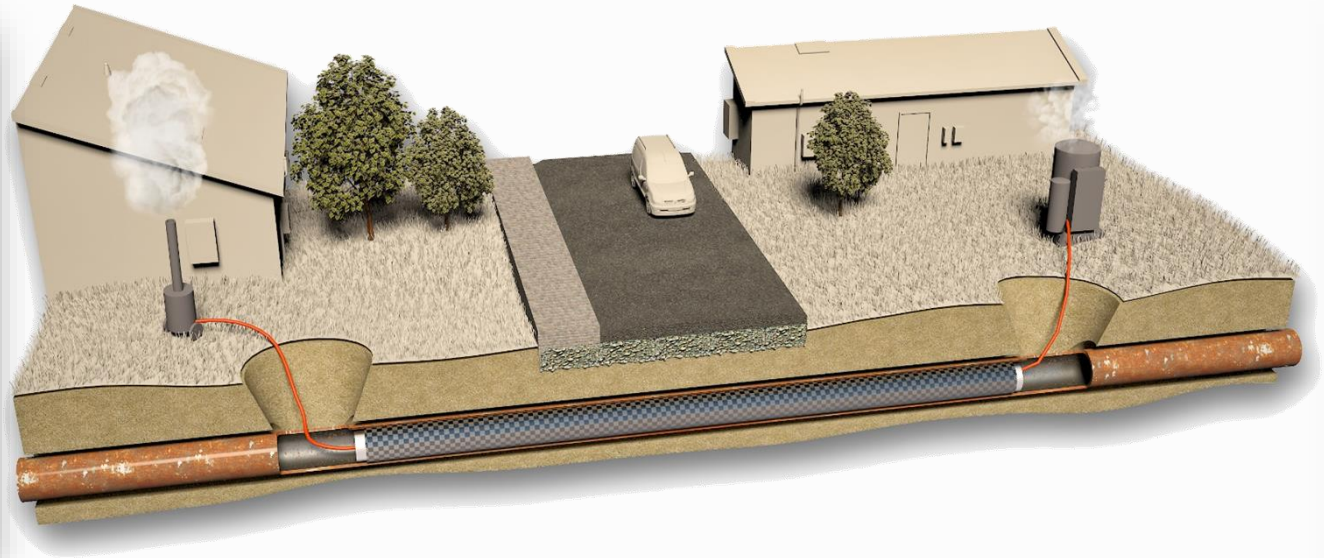


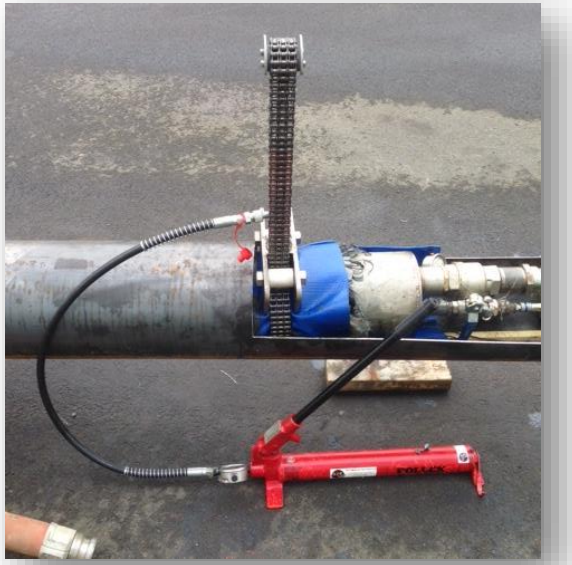


The liner is winched into place

To ease the winching a friction reduction foil can be used.

Installation Method



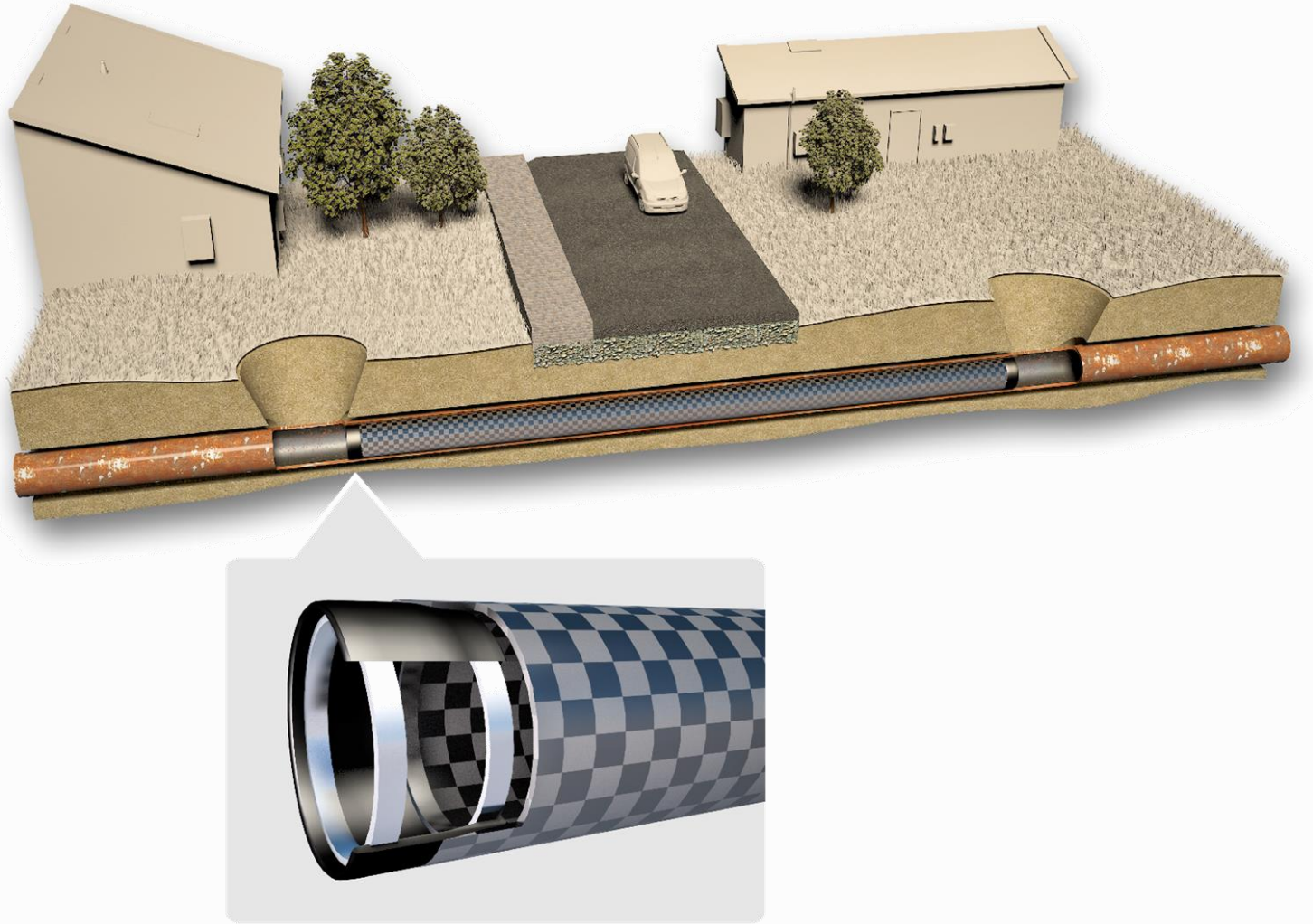


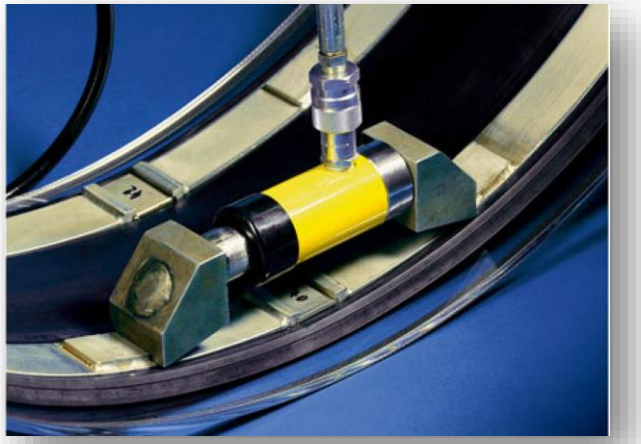
Curing the liner with controlled high temperature steam

Require about 3 bars pressure to reach cure temp

Installation Method

Closing off the finished carbon fiber liner with seal and locking rings





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Carbon fiber liner

- High temperature epoxy resin + carbon fiber = no hydrolysis
- Designed for DN100-DN800
- Current offering typically DN125 - DN450
- Can sustain water at 130°C
- Designed for 16Bar pressure, higher can be achieved by different design
- Delivered ready for installation -> no impregnation at the work site.

www.pprliner.com

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https://youtu.be/_PYYinZMoXQ

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