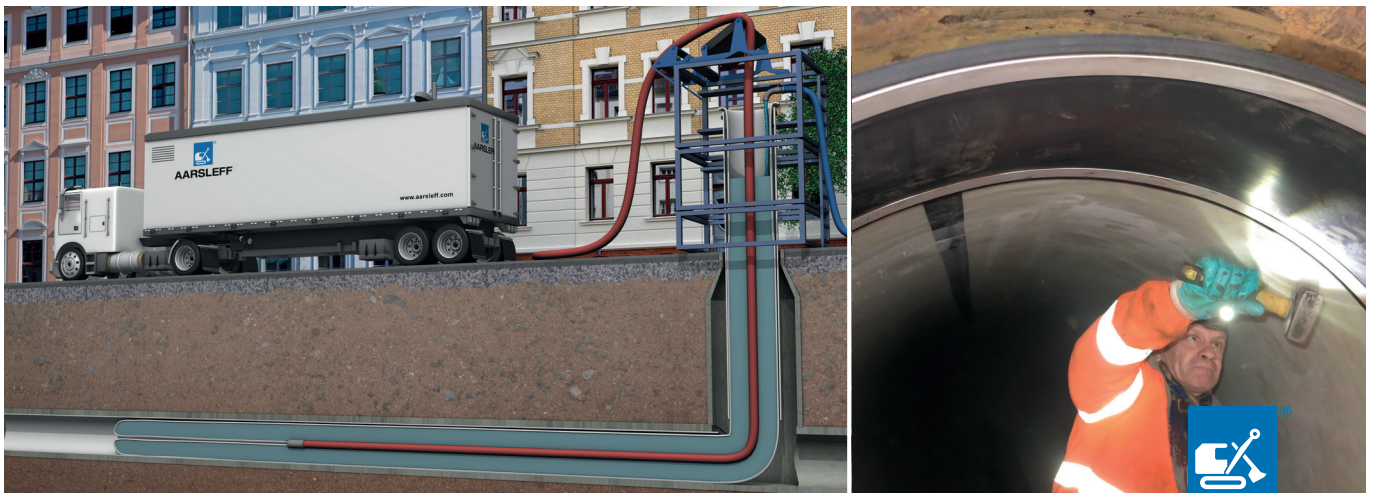


AARSLEFF PRESSURE CIPP

PAA-LPL-LINER™ – Flexible Polyester

Aarsleff Felt liner impregnated with flexible polyester for low pressure applications



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Product

PAA-LPL-LINER™ (Low pressure lining) comprises the installation of a flexible liner consisting of a glass-fibre reinforced polyester felt layer with a high resistant PP coating. The liner is impregnated with flexible polyester resin. All Liners are tailored to each individual installation at our ISO certified factory.

Field of application

PAA-LPL-LINER™ is well suited for relining existing pressure sewage or technical water pipes of all kinds of material in diameter range from 300 to 1500 mm.

Installation

Prior to installation of the liner, the existing pipe has to be cleaned. This can be done by means of ordinary high-pressure cleaning or mechanical cleaning.

The installation is carried out from existing chambers or excavated pits. The flexible and impregnated liner is inverted into the existing pipe by means of water or air pressure. The liner is inverted through the existing pipe and passes bends of up to 45°. When the liner is fully inverted it is cured by hot water or steam. After curing the liner forms a structural and abrasion-resistant pipe

within the exist-ing pipe. The liner has a high chemical resistance and a smooth inner surface. Before and after the relining, the pipe section is CCTV inspected for documentation.

Cleaning of the relined pipe can be done by high pressure cleaning at max. 100 bar pressure. The use of mechanical cleaning tools is not permitted after the liner is installed.

Advantages

- Minimizes the need of excavations
- Fast installation method and limited working space requirements.
- The pipe can be relined through bends of up to 45°, which eliminates the need for expensive excavations.
- Long stretches of pipe can be renewed in one installation.



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TECHNICAL SPECIFICATIONS

Product	PAA-LPL-Liner™ – Flexible polyester
Diameter	300-1,500 mm
Wall thickness	6-21 mm (Nomine)
PH	4-11 (depending on temperature)
Effluent temperature	0-60°C (depending on pH)
Host pipe shape	Circular
Host pipe material	Mainly steel or reinforce concrete pipes
Bends	Yes, able to pass through bends up to 45°
Installation length	up to 500 m
Curing media	hot Water or steam
Operating pressure	0 – 4 Bar
Test pressure	max. 1.5 × operating pressure

Properties	Values	Test method	Report
Short term E-modulus	2750 N/mm ²	DIN EN 1228	PAA Documentation
Bending Strength – Short term	31 N/mm ²	DIN EN ISO 178	PAA Documentation
Tensile Strength – Radial – short term	25 N/mm ²	DIN EN 527	PAA Documentation

CERTIFICATES

Quality management, environment, occupational health and safety at Aarsleff Pipe Technologies

ISO 9001	Quality management system, certified since 1994. The certification applies to No-Dig pipe renewal, including manufacture, installation, design, logistics and laboratory analysis. Turnkey Project Management.
ISO 14001	Environmental management system, certified since 1999. The certification applies to design, manufacture, laboratory analysis and logistics for No-Dig pipe renewal.
OHSAS 18001	Occupational health and safety management system, certified since 2009. The certification applies to contractor services within new establishments, maintenance, renewal and operation of infrastructure.

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