

Insituform[®] CIPP Felt

Product Information

Affordable, reliable and non-disruptive solutions for sewer pipe reconstruction.



The Insituform[®] cured-in-place pipe (CIPP) is a jointless, seamless, pipe-within-a-pipe used to rehabilitate foul sewers, storm sewers and rising mains ranging in diameter from 100 mm to 2500 mm.

Water entering your sewer system through cracks, holes and joint failures can overload your treatment facilities, especially during wet weather. Insituform[®] CIPP significantly reduces this infiltration. In dry climates, roots find the sewer system an attractive source of water and nutrients and create blockages and overflows. Insituform[®] CIPP contains your flow within the pipe while keeping external water and roots out.

Insituform[®] CIPP restores structural integrity to your damaged sewer pipes. The design models used, independent test results and over 55 years of service all confirm that Insituform[®] CIPP is a structural product with a 100-year design life.

Insituform[®] CIPP provides the least cross-sectional reduction of all methods used to rehabilitate pipes. There are no joints or seams that can separate over time and the smooth, jointless interior provides excellent abrasion resistance and typically improves flow capacity.

The Insituform[®] CIPP process is usually less expensive than conventional dig and replace methods of sewer repair. When the lost business revenues, traffic congestion and social costs associated with other methods are considered, your savings are immeasurable.

Insituform[®] CIPP can be installed using either air or water inversion or by pulling into place. The cure can be done with steam or hot water. All processes are consistent with nationally recognised standards and Insituform's own ISO-certified quality control program. Since each job is unique, we apply the most cost effective, technically optimal solution to meet your pipeline rehabilitation needs.

Contact us:

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Insituform® CIPP Felt

1. General Data	
Diameter range	150mm to 2,400mm
Wall thickness	3mm – 58,5mm
Carrier material	Polyester-needle felt
Wall thickness after curing	87% to 88% of the nominal wall thickness
Wear layer	PP & PU coating: Standard 450g/m ² to 550g/m ² Optional: 850g/m ² to 950g/m ²
Wear resistance	Wear layer according to DIN EN 295-3
Suitable resins	Most resin types including Vinylester resin
Curing technologies	Warm water, steam/air, UV curing depending on the wall thickness and resin

2. Mechanical Performance	
E-Modules short time	3.080 MPa
E-Modules long time	1.540 MPa
Flexural strength, short term of B (DIN EN ISO 11296 or DIN EN ISO 178)	28 MPa
Flexural strength, long term of B	14 MPa
Reduction factor	2.00

3. Operating Conditions	
Chemical resistance	pH4 to pH10 (Depending on media temperature and the kind of resin)
Maximum media temperature	75°C
Old pipe condition	I, II or III (The necessary wall thickness is to define by the static calculation)
Displacements at joints	Yes
Bends	Yes
Diameter transitions	Yes
Wall thickness transition	Yes
Typical installation length	60m to 350m
Shape of the old pipe	All shapes
Material of the old pipe	No limitation

4. Transport and Stocking of Wet Liners	
Packing	In cooling containers (reefers) on pallets
Stocking time	5 days after impregnation at $\theta_{max} = 17^{\circ}\text{C}$ at the centre of the liner stack. Bisection of the stocking time when stored in $\theta = 22^{\circ}\text{C}$