

Insituform® CIPP

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

WASTEWATER



Our trenchless solution

The Insituform® process can be used to rehabilitate sewer, stormwater and pressure mains. Insituform® cured-in-place pipe (CIPP) is a jointless, seamless, pipe-within-a-pipe with the capability to rehabilitate pipes ranging in diameter from 100mm to 2500mm and to negotiate bends.

Insituform® CIPP addresses your top concerns:

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

Structural integrity.

Insituform® CIPP restores structural integrity to your damaged sewer and stormwater pipes. The design models used, independent test results and nearly 40 years of service all confirm Insituform® CIPP is a structural product with a 100-year design life.

Increased flow capacity.

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.

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

Installation flexibility. Insituform offers flexibility in both the method of installation and the cure process. Insituform® CIPP can be inverted with either air or water, or pulled into place. Hot water or steam can be used to cure the CIPP tube. All processes are consistent with 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 solve your pipeline rehabilitation problem.

Insituform® CIPP is the best choice for trenchless rehabilitation.

Insituform superior processes

Since inventing CIPP 40 years ago, Insituform has developed the highest quality manufacturing and installation systems in the trenchless industry.

As a vertically integrated company, we take responsibility for R&D, manufacturing, installation and service. Our systems are designed to produce consistency and high performance in our products and services.

Manufacturing

Insituform's patented manufacturing techniques ensure that our tubes are constructed for optimal long-term performance. During the manufacturing process, each tube goes through 25 separate quality checks.

Wet out

Insituform's patented serial vacuum impregnation process ensures that Insituform® CIPP achieves the required strength, enables wet out of any length, diameter or thickness and allows a faster wet out in less space, saving on time and cost. Insituform's wet out facilities utilise environmentally-friendly methods and equipment.

Installation

Every Insituform installation is completed using our own safety-certified crews who follow strict safety procedures and documented work practices in accordance with the Company's ISO: 9001 certified quality program. Each crew is equipped with highly specialised equipment, backup resources and engineering support.

Insituform's advanced installation methods include air invert steam cure (AISC), which reduces energy usage on a job site by approximately 95 percent.





Insituform® offers many benefits:

Experience

- 40 years experience
- Over 30,500 kilometres of pipe rehabilitated

Installation capacity

- Operations or licensees in 80 countries worldwide
- Ability to mobilise quickly

Specialised, safe crews

- Our crews are specially trained to install Insituform® CIPP and do it every day
- Every crew member has gone through extensive safety training, follows a site specific safety plan and is backed by a large network of safety support individuals

High quality products & services

- ISO 9001:2008 certification covering design, manufacturing, installation and service capabilities
- Total quality culture ensures complete customer satisfaction

Single point of contact

- Vertical integration means we have single source responsibility and accountability for research and design, manufacturing, installation and service

Trenchless rehabilitation is the best choice for several reasons:

Minimal disruption. No digging means quicker rehabilitation with little inconvenience to citizens and businesses and less effects on environmentally sensitive areas such as wetlands, rivers, public parks, natural habitats and historic sites.

Community image-building. Wise, timely investment in repairs and new construction using the most current and non-disruptive construction technologies available is a visible way to demonstrate proactive community rebuilding.

Time savings. Many trenchless rehabilitation projects can be completed in days compared to the weeks and months that you can encounter with traditional dig and replace methods.

Safety. Because repairs can be completed more quickly and there are seldom open trenches, trenchless solutions are safer than conventional dig and replace methods.



Other CIPP solutions include:

- iPlus Infusion® – Small diameter
- iPlus® Composite – Medium-to large diameter
- InsituMain® – Pressure pipelines



Insituform® is a worldwide company that has been renewing underground infrastructure for 40 years.

The Insituform® CIPP Installation Process



Step 1:

A resin-saturated, coated felt tube is inverted (shown) or pulled into a damaged pipe.



Step 2:

Hot water or steam is used to cure the resin and form a tight-fitting, jointless and corrosion-resistant replacement pipe.



Step 3:

Service laterals are restored internally with robotically controlled cutting devices and the rehabilitated pipe is inspected by closed-circuit TV.



The answer is clear.

Insituform® CIPP:

- Reduced infiltration
- Restored structural integrity to damaged sewer and stormwater mains
- Increased flow capacity of existing sewer and stormwater mains
- Leaking joints eliminated
- Minimal disruption

Contact Insituform to learn more about how CIPP can restore your underground infrastructure.

The Insituform® CIPP Technical Envelope

Diameter Range	100mm to 2500mm
pH Range	.5 – 10.5
Effluent Temperature	up to 60° C
Pipe Condition — Fully Deteriorated	Yes
Pipe Condition — Partially Deteriorated	Yes
Bends	Yes
Offset Joints	Yes
Diameter Changes	Yes, without manhole access
Thickness Changes	Yes, without manhole access
Typical Shot Length	10m to 300m
Host Pipe Shape	All Shapes
Host Pipe Material	All Materials

This table refers to general purpose municipal sewer and stormwater CIPP projects. Insituform can provide products that extend beyond these parameters through our engineering group.



Insituform®
Pacific

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