

HOW THE PERMA-LINER™ PULL-IN-PLACE WORKS

A project can be completed in less than one day. The line is cleaned and inspected with a mini inspection system. The measurement of the lateral length is taken. The Perma-Liner™ Pull-In-Place uses a PU coated needle felt tube, referred to as **Navi™ Liner**. The tubular material is impregnated with a two part 100% solids epoxy resin. The impregnated tube is pulled into place allowing the resin to bond and seal with the existing host.

Your lateral is then put back into operation that same day.

Perma-Liner™ Pull-In-Place System is the alternative to digging and replacing sewer branch lines from residential and commercial properties around the world! No other system can match the ease of installation and quality materials available from Perma-Liner™ Industries, Inc.

Worldwide Supplier of
Trenchless Lining Products

24 HOUR TECHNICAL SUPPORT
FROM PERMA-LINER™ INDUSTRIES, INC.



Before

After

PERMA-LINER™ PULL-IN-PLACE PIPELINING SYSTEM

featuring

Navi™ -Liner

No Digging:

The Perma-Liner™ Pull-In-Place Pipelining System is 100% trenchless. No digging up floors, landscaping, or tearing up walls.

Versatility:

Ability to line around multiple bends and vertical stacks while stopping and starting anywhere in the line.



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**PERMA-LINER™
INDUSTRIES, INC.**

PERMA-LINER™ PULL-IN-PLACE SYSTEM BENEFITS

The Perma-Liner™ Pull-In-Place Pipelining System is 100% trenchless. No digging up floors, landscaping, or tearing up walls. The versatility of this system allows lining 22's, 45's, sweeping 90's and vertical stacks with ease while stopping and starting anywhere in the line. Now you can service pipelines from 3"-36" in less than a day and in most cases less than 5 hours with the new Perma-Liner™ Pull-In-Place Pipelining System. The Navi™-Liner can also be supplied in 4" - 6" transitions without changing the structural properties of the liner.

1

Clean and televise line.

2

Take measurement of lateral.

3

String a line from your first access point to your second.

4

Wet out the liner.

5

Attach winch cable to the leading edge of the liner's pull end. Attach the air hose and second winch cable to the back air end. Pull the liner into place.

6

Leave for 3 hour ambient cure.



- Eliminates Root Intrusion
- Stops Infiltration/Ex-filtration
- 22, 45, AND SWEEPING 90 DEGREE BENDS
- Stand Alone design/No Host Pipe Needed
- Bridges Missing Sections of Pipe
- Relines Virtually Any Material, Clay, Cast, Etc.
- IAPMO Approved
- NSF Standard 14 Certification
- 3"-36" diameters.
- 4"-6" Transitions can be supplied at any length.
- 100% Solids Epoxy.
- 3 hour cure time with ambient resin.
- Hot water and steam cure can be completed with cure times less than an hour.
- Multiple installations per day with either ambient or heat assisted curing.
- Nearly doubles the ASTM F1216 Specification on the minimum design life of 50 years.
- All materials manufactured in Clearwater, Florida.
- Financing available for qualified buyers.
- No contracts to sign, no territories.
- Unmatched support and training.