

Force Main Rehabilitation



CIPP Solution Designed to Last

Michels offers a variety of cured-in-place pipe (CIPP) rehabilitation solutions for pressure pipe applications. Our force main applications consist of a strong, durable CIPP composite able to withstand internal pressures, external loads and cyclical loads. Michels uses fiberglass-reinforced CIPP lining systems with heavy thermoplastic polyolefin (TPO), polypropylene (PP) or polyethylene (PE) coatings for a minimum design life of 50 years.

Advantages/Properties of Force Main CIPP:

- Trenchless technology
- Glass reinforced for high strength and long life
- **Flexural modulus of up to 1,000,000 psi**
- Diameter range of 6-inch to 96-inch
- Operating pressures of up to 250 psi
- Installation lengths up to 1,000 feet
- Epoxy or vinyl ester resin systems
- No joints or seams
- Fully structural, Class IV solution
- 50-year design life

River Avenue Force Main Rehabilitation

Norwich Public Utilities, Norwich, CT

- 2,695 feet of 14-inch combined force main
- 4 installations with longest section of 777 feet
- Performed in January 2020 amidst near-zero temperatures
- Parallel to and underneath a large railway system

