

High performance repair of large diameter pipelines



Structural repair of 5.5 ft. storm sewer



Structural repair of 100 ft. deep, 12-ft diameter storm water tunnel

StifPipe® is the award-winning FRP composite pipe technology

that uses a lightweight core with carbon and glass fabric reinforcement to create an extremely lightweight pipe capable of resisting heavy external loads and internal pressure.

Advantages

- ✓ Made of uniquely designed high strength FRP
- ✓ Can be manufactured to any shape to fit the host pipe or culvert
- ✓ Extremely high strength to weight ratio materials mean easy installation (average weight for 36-inch StifPipe® is 30-35 lbs/ft)
- ✓ Smooth surface improves hydraulic capacity for most applications
- ✓ Highly corrosion-resistant (inert to sulfuric acid and other chemicals listed) in ASTM D543)
- ✓ High dimension ratio (50-100) due to high strength and minimal wall thickness required

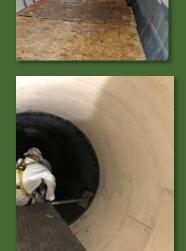
Applications

Structural lining of large pipelines (no digging required) Structural point repair of pipelines (no-dig) New pipe installation (open-cut or trenchless)

Applicable to nearly all types of host pipe materials

Contact a QuakeWrap engineer today:

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World's First Green and Sustainable Pipe*



Manhole/vertical pipe rehab



Culvert rehabilitation by sliplining

StifPipe® is specifically designed for each project depending on internal and external loads. A typical design comprises dual layer fabric of glass fiber, carbon fiber and 3D polymeric fabric for improved stiffness.





- ✓ Slip-lining using custommanufactured pipe segments
- Minimal or no loss of hydraulic capacity
- ✓ Minimal surface prep required
- Segments joined using wet layup fabric method or using bell and spigot joints
- Annular space between StifPipe® and host pipe filled with grout

WET LAYUP

- ✓ Fabric layers are directly bonded to the surface of the host pipe
- No grouting needed
- ✓ Requires proper pipe surface preparation prior to installation
- ✓ StifPipe® thickness depends on design load requirements
- ✓ Minimal service interruption
- ✓ Pipe can be returned to service in 12 hours or less using heated cure

*ASCE 2016 Innovation Award as the World's First "Green and Sustainable" Pipe

The StifPipe® repair system and product is U.S. patent protected. QuakeWrap, Inc. is the original innovator and developer of Fiber Reinforced Polymer (FRP) products for infrastructure repair and renewal, providing structural engineering services, sealed drawings, tested materials, and installation by its own specialty company, FRP Construction LLC.

More can be found at QuakeWrap.com, info@quakewrap.com or (520) 791-7000

