

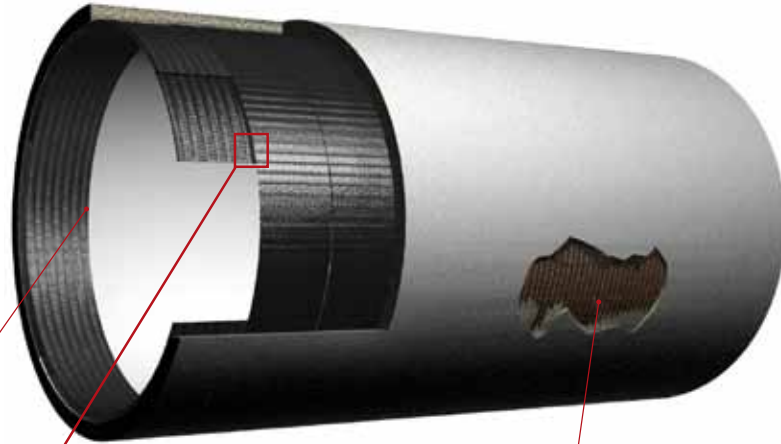
StrongPIPE™ CFRP

Carbon Fiber Reinforced Composite Liner

structural
TECHNOLOGIES

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Carbon Fiber Reinforced Composite Liner

Existing Corrosion-Induced Damage



Close up view of CFRP composite liner

StrongPIPE is a structural strengthening system for restoration of damaged/weakened pressure pipe and the upgrade of undamaged pipe. **StrongPIPE-CFRP** utilizes carbon fiber tensile reinforcement and epoxy binders placed onto the interior of an existing pipe forming a composite lining inside the existing pipe.

FEATURES

- Standard production is for pipe with internal diameter 48" (1219 mm) and larger. For diameters below 48" (1219 mm), please contact STRUCTURAL TECHNOLOGIES.
- Particularly well-suited for Prestressed Concrete Cylinder Pipe (PCCP)
- Potable water approved
- Watertight structural membrane
- Liner thickness 6mm-19mm ($\frac{1}{4}$ "- $\frac{3}{4}$ ")– maximizes pipe diameter and reduces flow loss
- Corrosion resistance creates long operational life
- Fast placement
- Can be customized to produce variable structural capacity, depending on location in pipe
- Fits straight and curved pipe sections
- Withstands high design pressure

FUNCTIONS

- Restores full functional capacity of pipe under pressure
- Can be used to increase the structural capacity of an existing pipe allowing increased pressure and flow rate
- Maintains water tightness of pipe
- Increases bending and strength of the pipe

BENEFITS

- No shafts or excavation required to perform repairs
- Excellent for localized repairs
- Minimal downtime and impact to operations
- Polymer coating improves flow
- All access through existing manholes