

The Benefits of Using the Buttress-Loc[®] Pipe Rehabilitation System.

It's the installer's solution: no excavation, and the last solution you may ever need for drainage pipe rehabilitation.

We have answered the problem of having to excavate aged and host pipes. Special threaded sections of polyethylene pipe are inserted into the old sewer, forming one continuous, leak-free liner. Once anchored and sealed by grouting, the new system is virtually maintenance-free.

- **No excavation or costly restoration**
- **No traffic diversions**
- **No interruption to service**
- **Better flow and chemical resistance**
- **Eliminates infiltration and exfiltration problems**

Buttress-Loc[®] Pipe Sizes

Piper Liner O.D.	Pipe I.D. DR 32.5	Pipe I.D. DR 17	Pipe I.D. DR 11
3.5"			2.864"
4.5"		3.97"	3.682"
6.625"		5.845"	
8.625"		7.611"	
10.75"		9.486"	
12.75"		11.25"	
14.00"		12.352"	
16.00"		14.118"	
18.00"		15.882"	
20.00"		17.648"	
22.00"	20.646"		
24.00"	22.524"	21.171"	
28.00"	26.276"	24.706"	
30.00"	28.154"		
32.00"	30.030"		
36.00"	33.784"		
42.00"	39.416"		
48.00"	44.336"		
54.00"	50.676"		

Manning "n" rating of .009 for HDPE pipe.

Pipe manufactured in accordance with ASTM F714 for dimension and pipe stiffness.



Represented by:

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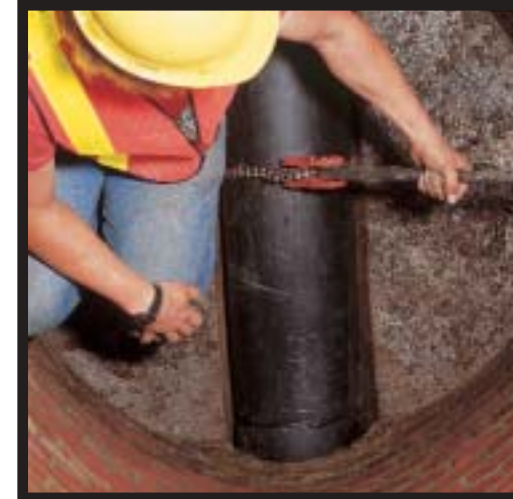
Sanitary Sewer Relining

Industrial Pipe Relining

Culvert Relining

Dam Rehabilitation

Buttress-Loc[®]: The Pipeline Rehabilitation Solution



For Sanitary, Industrial and Storm Sewer Rehabilitation and Repair.

A rock-solid cost effective solution.

The patented Buttress-Loc® piping system – the solution

It's a fast install, it handles the job's requirements, and it fits your budget as easily as it fits into the available work space. And, like breakthrough design, this system incorporates some great ideas and presents them in a new way that challenges the old way of doing things.

It's a fast install with no special training or equipment. It handles the job's requirements.

The Buttress-Loc® pipe lining system is unmatched in ease of installation. Since it typically weighs as little as 10% of concrete, ductile iron and clay pipes, it is much easier to handle. Maintenance departments can use their own crews - no special training or specialized equipment necessary.

You don't have to wait on the backhoe.

Because of Buttress-Loc®'s ease of installation and variable lengths, 95% of drainage and sewer pipe renewal can be off road. This means increased safety for both your workers and motorists. Traffic disturbance can be a thing of the past.

Everything for the installer.

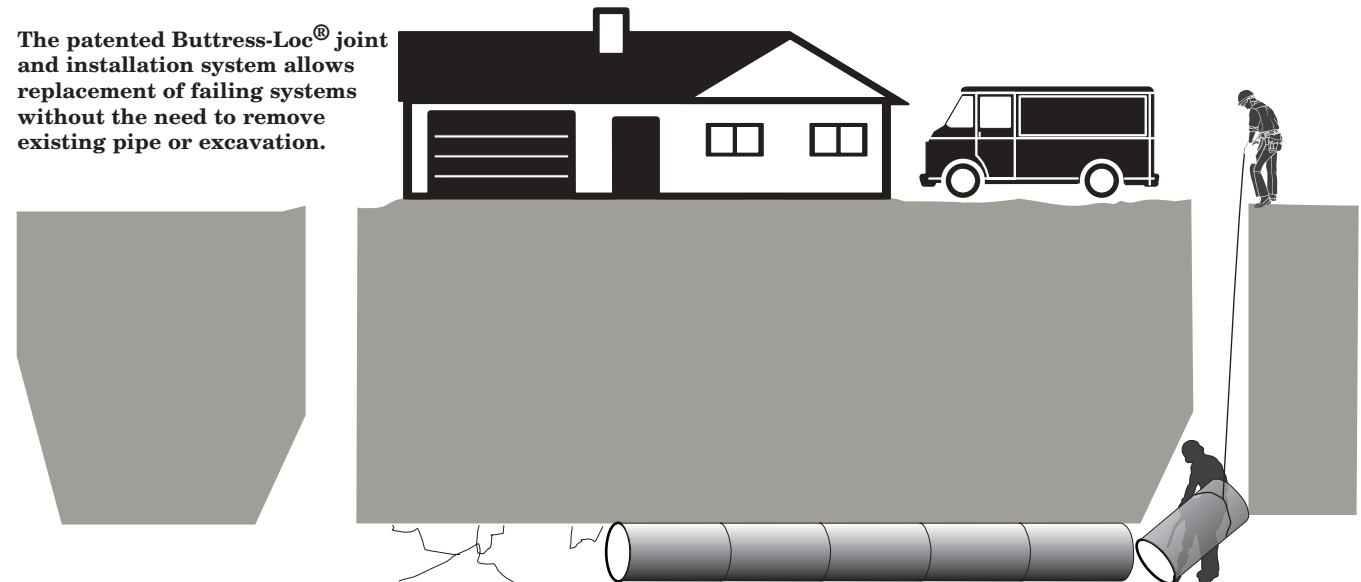
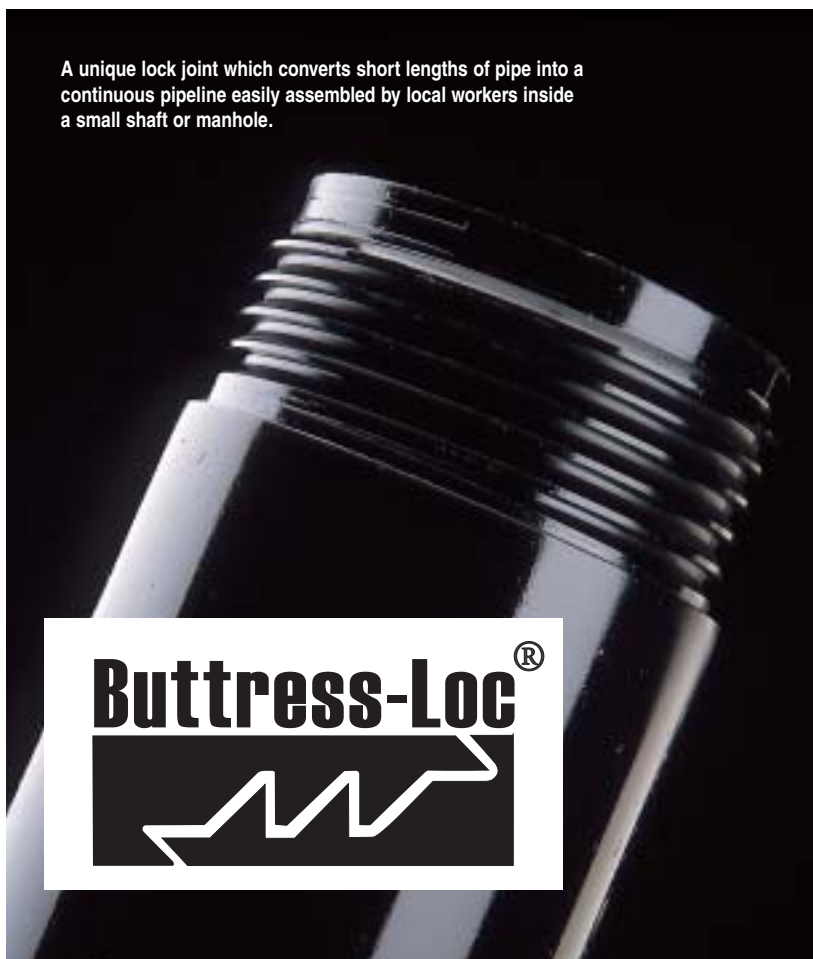
Buttress-Loc® piping comes in lengths ranging from 2 to 50 feet allowing minimal disturbance of right of way. Facing a damaged pipe with limited access? Not a problem with Buttress-Loc®. Same segments can be fastened together, all with strong water-tight seals.

These advantages also make Buttress-Loc® the preferred answer for pipe renewal. Typical applications are:

- Sanitary Sewer Relining
- Industrial Sewer Relining
- Culvert Relining
- Dam Rehabilitation

See what Buttress-Loc® can do for you. It will be the last solution you'll ever need for piping problems.

Simple installation means light duty equipment, less manpower, minimal disturbance of right-of-way, and indefinite service life. When considering these benefits, it becomes clear that the Buttress-Loc® system is the most cost-effective way to rehabilitate deteriorating drainage piping systems. It may be the last solution you'll ever need.



The installer's solution: two key strengths to depend on.

- A new, leak-free, independent system which features a cost effective installation, improved flow and dramatically longer life.
- High-density polyethylene has outstanding chemical and corrosion resistance. It also has high strength and flexibility.



- Save 50% compared to pipe replacement
- No interruption of services
- Little or no surface damage
- Maintain traffic flow
- Faster project completion
- Improved hydraulic capacity
- Sealed system prevents entry of ground water, roots and debris
- Long service life
- Reduced extraneous water allows treatment plants to operate efficiently
- Owners benefit from lowered volumes for waste treatment
- An effective, economical system to help promote a cleaner, healthier environment

Installation:
 Short lengths of pipe, lowered down the manhole one at a time, are fastened together using a chain wrench. The joint automatically self seals. An end protector plate is attached for hydraulically pushing or winching completed sections further into the sewer from manhole to manhole. This routine is carried out until the entire pipe insertion is finished.