

FIBERSTRONG™

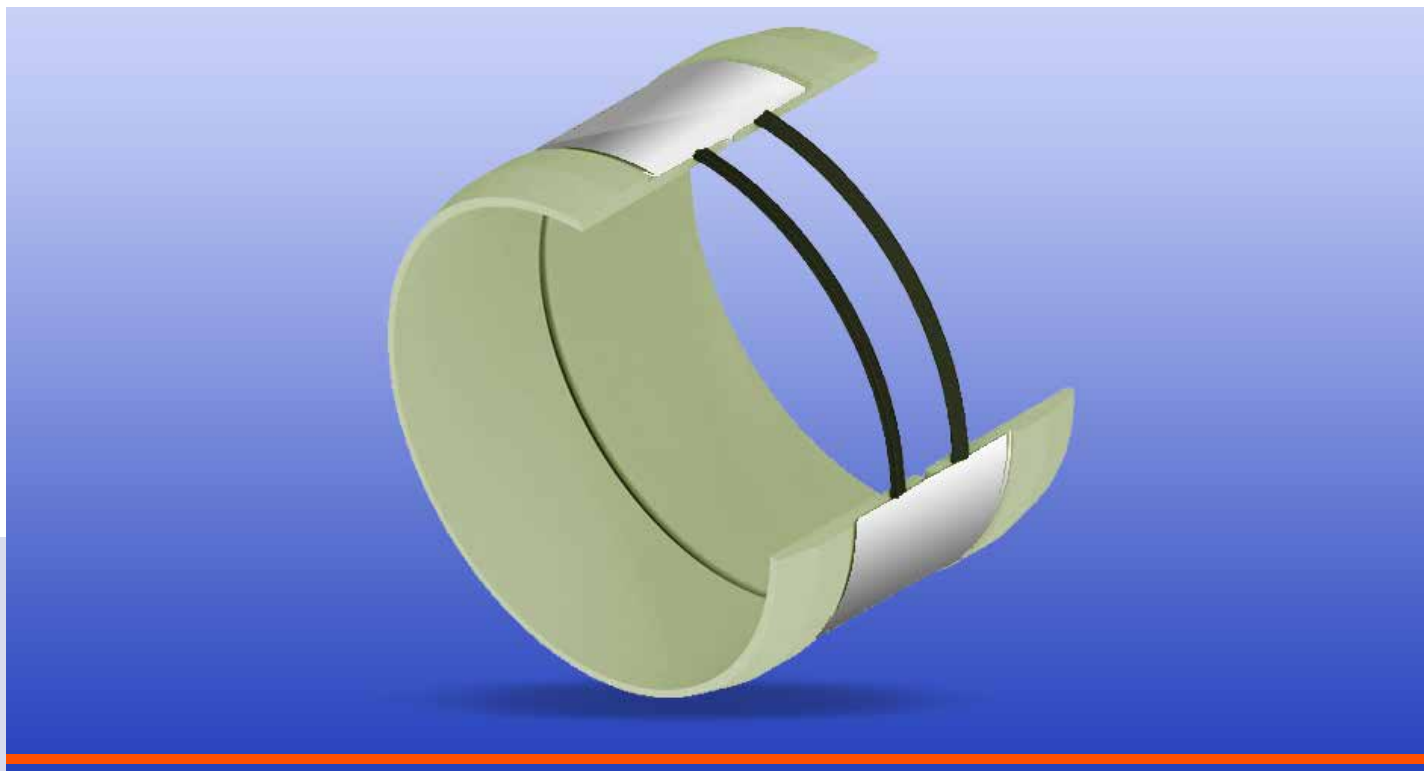
FOR SLIPLINING APPLICATIONS IN VINYLESTER LINED PIPE SYSTEMS

Excavating and restoring deteriorated pipe systems by means of open trench method is expensive and is not always economically viable.

Our Fiberstrong™ Sliplining pipe systems is intended for restoration and rehabilitation of deteriorated pipelines.

ADVANTAGES OF FIBERSTRONG™ SLIPLINING PIPE SYSTEMS

- Designed for 100 years-service life
- Cost effective and provides structural integrity to the failing pipe system
- Minimum disruption to service and surface traffic
- Eliminates and reduces infiltration and exfiltration and maintains the hydraulic flow capacity of the system
- Easy to install
- Custom lengths can be supplied based on project requirements
- The annular space between the carrier pipe and the host pipe may be filled or grouted to restrict pipe movements

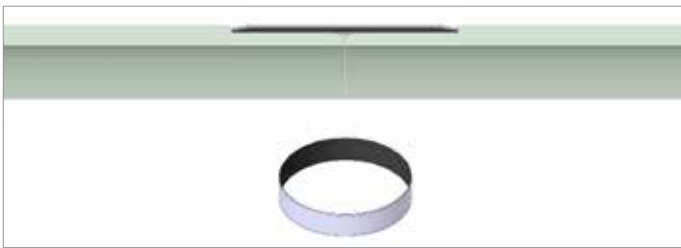


APPLICATIONS

- Sanitary Sewage
- Storm Water
- Drains
- Irrigation
- Industrial Waste Lines

JOINTING

The joint is formed by a Stainless-Steel Coupling with Integrated Gasket - (SSCR). This allows the pipes to adapt to the existing pipelines and be able to take angular deflection in the joint according to the standards.



Stainless steel coupler with integrated gasket – SSCR

PRODUCT SPECIFICATIONS:

Fiberstrong™ Sliplining Piping Systems is available in stiffness classes of at least SN10,000 (72 psi) with a standard pressure capacity of PN 10 bar (145 psi) for the following diameters (Higher pressure rating can be supplied up to PN 16 bar (232 psi):

Table 1: Standard product range

Diameter Range (DN)* mm (in)	
600 (24")	700 (28")
800 (32")	900 (36")
1000 (40")	1100 (44")
1200 (48")	1300 (52")
1400 (56")	1500 (60")
1600 (64")	1700 (68")
1800 (72")	1900 (76")
2000 (80")	

*The product can be customized as per the client design with SS or GRP Joint, up to DN 4000mm (160")

APPLICABLE STANDARDS

The applicable design standards include:

- **ASTM D 3262** Glass Fiber (Glass-Fiber-Reinforced Thermosetting-Resin) Sewer Pipe
- **ASTM D 3517** Glass Fiber (Glass-Fiber-Reinforced Thermosetting-Resin) Pressure Pipe
- **AWWA C950** Fiberglass Pressure Pipe
- **AWWA M45** Fiberglass Pipe Design
- **ISO 10639** Plastics Piping Systems for Pressure and Non-Pressure Water Supply-Glass-Reinforced Thermosetting Plastics (GRP) Systems Based on Unsaturated Polyester (UP) Resin
- **ISO 10467** Plastics Piping Systems for Pressure and Non-Pressure Drainage and Sewerage-Glass-Reinforced Thermosetting Plastics (GRP) Systems Based on Unsaturated Polyester (UP) Resin

Table 2: Fiberstrong™ Uniform OD Sliplining Pipes SN ≥ 10,000 (≥72 psi)

DN		Nominal Pipe OD		Nominal Pipe Thickness		Force		Weight	
mm	in	mm	in	mm	in	N	lb	Kg/m	lb/ft
600	24	616	24.3	17.33	0.68			72	48
700	28	718	28.3	19.41	0.76			92	62
800	32	820	32.3	20.96	0.83			114	77
900	36	923	36.4	23.21	0.91			142	95
1,000	40	1026	40.4	24.65	0.97			166	112
1,100	44	1099	43.3	25.66	1.01			186	125
1,200	48	1229	48.4	27.45	1.08			222	149
1,300	52	1348	53.1	28.62	1.13			254	170
1,400	56	1434	56.4	29.90	1.18			282	189
1,500	60	1538	60.5	34.66	1.36			350	235
1,600	64	1637	64.4	34.82	1.37			374	252
1,700	68	1718	67.6	35.72	1.41			402	270
1,800	72	1842	72.5	37.08	1.46			448	301
1,900	76	1940	76.4	39.84	1.57			506	340
2,000	80	2047	80.6	43.06	1.70			576	387

Imperial units are given for guidance