

# ALPHALINER®

## ADVANTAGES OF ALPHALINER® vs TRADITIONAL CIPP

	Traditional Steam or Water Cured CIPP	Alphaliner®
INSTALLATION PROPERTIES	Controllable Installation (Able to start & stop)	Yes
	Shrinkage	Minimal (Lowest resin shrinkage of all installation methods)
	Resin Slugs in Lateral	NONE
	Curing Medium	Ultra Violet Light
	Curing Documentation	Infrared Sensors Record Entire Process
	Resin Migration/Loss/Washout	No
	Host Pipe Required for Liner Integrity	No
ENVIRONMENTAL	Energy Usage	Low
	Water Usage/Requirements	Minimal
	Installation Noise	Low
	Post Curing Discharge	None
	Environmental Footprint	Minimal (less equipment required)
STRUCTURAL PROPERTIES	Flexural Modulus	1,666,000 psi Alphaliner 500 2,220,000 psi Alphaliner 1500
	Adjusted Long Term Flexural Modulus (50 Year Life Results)	1,037,500 psi Alphaliner 500 1,665,000 psi Alphaliner 1500
	Flexural Strength	49,700 psi Alphaliner 500 80,400 psi Alphaliner 1500
	Strain Corrosion (ISO 11296-4)	0.68%
	Liner Reinforcement	ECR Fiberglass
	Chemical Resistance	Excellent
	Porosity of Cured Liner Pipe Wall	Tight
	Retention Factor	62.5% for Alphaliner 500 75% for Alphaliner 1500



*For more information contact us at:*

**Reline America**

**116 Battleground Ave • Saltville, VA 24370**

**Telephone: 1-866-998-0808**

**[www.relineamerica.com](http://www.relineamerica.com)**

# ALPHALINER®

## ADVANTAGES OF ALPHALINER® vs TRADITIONAL CIPP

		Traditional Steam or Water Cured CIPP	Alphaliner®
LINER & GENERAL INFORMATION	Shelf Life Before Installation	2 to 3 weeks REFRIGERATED	6 months minimum - No refrigeration
	Pre-Liner	Not routinely used	Yes - Fully encapsulated
	Liner Seam	Stitched or bonded	None - Spirally Wound
	Manufacturing	By contractor at facility or in the field	ISO Certified 9001:2008 Facility
	Tube Impregnation	Resin distributed into tube at discrete points	Raw material impregnated use
	Resin Tube Fabrication	Vacuum impregnated AFTER construction	Tube manufactured from impregnated raw material
	Inner Film	Left in place	Removed after installation
	Outer Film	Inversion Installations - Not typically provided	Yes
	Tube Material	Felt/Polyester	Fiberglass
	8" Pipe Typical Liner Thickness	6 mm	3.5 mm
	Pipe Shapes	All standard pipe shapes	All standard pipe shapes
	Diameter Ranges	4" to 124"	6" to 54"
	ASTM Installation Standard	F1216, F1743	F2019
INSTALLATION & EQUIPMENT	Water Jet Cleaner	Yes	Yes
	CCTV/Cutter equipment	Yes	Yes
	Installation Presssure Unit	Yes	Yes
	Curing Truck	No	Yes
	Refrigerator Truck	Yes	No
	Boiler Truck	Yes	No
	Portable Equipment	Yes	Yes
	Installer Qualifications	Varies with installer	Installer certification required
	Installation	Inverted or Pull in	Pull in
	Liner Inflation	Water or Air	Air
	Effect of Cold Spots in Soil	Additional cure time required	None
	Liner Inspection BEFORE Curing	None	CCTV Inspected