ALPHALINER®

ADVANTAGES OF ALPHALINER® vs FELT CIPP

		Felt CIPP Cured Using Steam or Water	Alphaliner® UV CIPP
INSTALLATION PROPERTIES	Controllable Installation (Able to start & stop)	No stopping once exothermal begins	Yes
	Shrinkage	Moderate (depending on resin quality)	Minimal (Lowest resin shrinkage of all installation methods)
	Resin Slugs in Lateral	Yes - Inversion	NONE
	Curing Medium	Hot Water or Steam	Ultra Violet Light
	Curing Documentation	Temperature recorded at accessible sections only	Infrared Sensors Record Entire Process
	Resin Migration/Loss/Washout	Yes	No
	Host Pipe Required for Liner Integrity	Yes	No
ENVIRONMENTAL	Energy Usage	Medium	Low
	Water Usage/Requirements	Moderate to Heavy	Minimal
	Installation Noise	Medium to High	Low
	Post Curing Discharge	Styrene laced water or condensate	None
	Environmental Footprint	Large	Minimal (less equipment required)
STRUCTURAL PROPERTIES	Initial Flexural E-modulus*	250,000 - 450,000 psi	1,660,000 psi Alphaliner® 500 3,000,000 psi Alphaliner® 1800H
	Adjusted Long Term Flexural Modulus* (50 Year Life Results)	125,000 - 225,000 psi	1,210,000 psi Alphaliner® 500 2,550,000 psi Alphaliner® 1800H
	Initial Flexural Strength*	4,500 - 5,000 psi	50,000 psi Alphaliner® 500 68,000 psi Alphaliner® 1800H
	Liner Reinforcement	None	ECR Fiberglass
	Chemical Resistance	Excellent	Excellent
	Porosity of Cured Liner Pipe Wall	Not tight	Tight
	Retention Factor	50%	73% for Alphaliner® 500 85% for Alphaliner® 1800H

*Initial E modulus test using curved specimens requires a pass value that is 85% or higher to compensate for the variance caused by lab testing devices (ASTM F2019-20). Reline America uses an additional 5% safety factor by lowering third-party test reports 5% prior to applying design criteria.

RELINEAMERICA®

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ADVANTAGES OF ALPHALINER® vs FELT CIPP

		Felt CIPP Cured Using Steam or Water	Alphaliner® UV CIPP
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/Quality Management	By contractor at facility or in the field	ISO Certified 9001:2015 QMS
	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 72”
	ASTM Installation Standard	F1216, F1743	F2019-20
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