



T-LINER® MAIN-TO-LATERAL LINING



LMK's T-Liner® is an engineered, full-circle structural main-to-lateral connection that also renews the lateral pipe in one continuous length.

- Fully restores the structural integrity of the host pipe
- Provides a reliable long-term resistance to root intrusion
- Ensures a sealed watertight system with verifiable non-leaking molded compression gasket seals
- Available for use with or without an outside cleanout

Availability:

The T-Liner system is installed by independent distributor-contractors. Each distributor-contractor completes a comprehensive training course which includes in-house as well as live on the jobsite training. Each distributor-contractor submits an independent bid or estimate per project.

Item	T-Liner®	T-Liner® Shorty
Product Type	One-Piece Main and Lateral	
Is Outside Cleanout Required	Yes	No
ASTM F2561 Compliant	Yes	
Maximum Lateral Length	200 ft.—4 inch Lateral Diameter 150 ft.—6 inch. Lateral Diameter	15 ft. recommended
Mainline Diameter Sizes	6, 8, 10, 12, 15, 18, 21, 24 inch	

Item	T-Liner®	T-Liner® Shorty
Molded Gasket Sealing System	Yes—Insignia™ Hydrohat/O-Rings	
Structural Full Circle Wrap Connection	Yes	
Liners Fabricated Under Controlled Factory Setting	Yes	
UV Sealed Airtight Connection	Yes	
Lateral Location Indicia on Mainsheet	Yes	
Capable of Lining Transitions	Yes	
Capable of Lining Multiple 90° Bends	Yes	
Translucent Bladder/Calibration Tube for a consistent, verifiable wet out process	Yes	
Entire Liner is Vacuum Impregnated	Yes	
Length of Manufacturer Warranty	10 Year Manufacturer Limited Warranty	
Resin System	LMK 656 Polyester Resin is standard, but epoxy and vinyl ester can be used	
Cure Method	Steam	Steam or Ambient
Length of Cure Time	30 minutes	30 minutes with steam or 2 hours ambiently
Liners Made in America	Yes—Ottawa, Illinois, USA	

Lateral Liner Material: LMK Superknit, high-pile, polyester knit coated on one side					
Lateral Pipe Diameter	3"	4"	5"	6"	8"
Average Cured Liner Thickness	4.0 mm	4.0 mm	4.0 mm	4.0 mm	4.0 mm

Mainline Pipe Diameter	LINED PIPE		UNLINED PIPE	
	Mainsheet Liner	Average Cured Liner Thickness	Mainsheet Liner	Average Cured Liner Thickness
8" / 203 mm	Structural Glass Felt	3.5 mm	Scrim Reinforced Felt	4.5 mm
10" / 254 mm	Scrim Reinforced Felt	4.5 mm		
12" / 305 mm				
15" / 381 mm	Coated Felt	6 mm	Two Layers: 1.Coated 2. Non-Coated Felt	9 mm
18" / 457 mm				12 mm
21" / 533 mm				
24" / 610 mm				

Mainline Sheet thicknesses are based upon ASTM F1216 requirements for a partially deteriorated pipe with ovality of $\leq 2\%$ at depths ≤ 15 ft. For depths greater than 15 ft. contact LMK Technologies.

Physical Properties	Test	Result
Flexural Strength	ASTM D 790	$\geq 4,500$ psi (31 MPa)
Flexural Modulus	ASTM D 790	$\geq 250,000$ psi (1724 MPa)