



SECTIONAL CONNECTION LINING SYSTEM



Frequently, in a mainline pipe, a spot repair needs to be made near or adjacent to a lateral service line. Typically, once the repair is made, the service line has to be reinstated unless the lateral is abandoned. The repair is structural but once the service lateral is reinstated there is potential for leakage at the connection and from the lateral.

The **Sectional Connection Lining System** combines the best of both an LMK Performance Liner® Sectional Spot Repair and an LMK Main-to-Lateral Connection Repair. This system simultaneously renews a short section of mainline pipe and the lateral pipe without the need for reinstatement.

The Sectional Connection Liner provides a watertight, structural repair. Four hydrophilic molded mainline O-Rings are placed at the ends of the spot repair and two lateral O-Rings at the lateral termination create a verifiable watertight seal. Installed as a one-piece main-to-lateral liner through air inversion, the repair has a smooth interior finish. Both the mainline and lateral portions are designed to meet or exceed the criteria in ASTM F1216, appendix X1.

Item	Sectional Connection Liner
Product Type	One-Piece Main and Lateral
Is Outside Cleanout Required	Preferred
ASTM F2561 Compliant	Yes
ASTM F2599 Compliant	Yes
Mainline Diameter and Maximum Mainline Length	8"/200 mm, 10"/250 mm, 12"/300 mm diameter 6 ft./1.8M maximum length
Lateral Diameter and Maximum Lateral Length*	4"/100 mm or 6"/150 mm diameter up to 8 ft./2.4M maximum length

*Maximum lateral length is dependent upon mainline length and whether or not there is a cleanout available.

Item	Sectional Connection Liner
Molded Gasket Sealing System	Yes—Insignia™ O-Rings
Structural Full Tube	Yes
Liners Fabricated Under Controlled Factory Setting	Yes
UV Sealed Airtight Connection	Yes
Compressible Mainline Ends For Smooth Transition to Pipe	Yes
Translucent Bladder/Calibration Tube for a Consistent, Verifiable Wet-Out Process	Yes
Entire Liner is Vacuum Impregnated	Yes
Manufacturer Warranty	Yes—10 Year Manufacturer Limited Warranty
Resin System	LMK 656 Polyester Resin is standard, but Epoxy and Vinyl Ester can be used
Cure Method	Ambient
Length of Cure Time	2 hours
Liners Made in America	Yes—Ottawa, Illinois, USA

Lateral Liner Material: LMK Superknit, high-pile, polyester knit coated on one side			
Lateral Pipe Diameter	4" / 100 mm	5" / 125 mm	6" / 150 mm
Average Cured Liner Thickness	4.0 mm	4.0 mm	4.0 mm

Mainline Pipe Diameter	LINED or UNLINED PIPE	
	Mainline Tube	Minimum Cured Liner Thickness
8" / 200 mm	Coated Felt	6 mm
10" / 250 mm		
12" / 300 mm		

Mainline Sheet thicknesses are based upon ASTM F1216 requirements for a partially deteriorated pipe with ovality of $\leq 2\%$ at depths ≤ 15 ft. (4.6M). For depths greater than 15 ft. (4.6M) contact LMK Technologies.

Physical Properties	Test	Result
Flexural Strength	ASTM D790	$\geq 4,500$ psi (31 MPa)
Flexural Modulus	ASTM D790	$\geq 250,000$ psi (1724 MPa)

For specification information please visit www.lmktechnologies.com/resource-center.php.