

iFlex[®]Lateral

Product Information

Lateral liners for pipeline rehabilitation



The iFlex®Lateral product group offers 3D liners suitable for both connections and internal renovations in a diameter range of 50 mm to 250 mm.

iFlexP is particularly well-suited for connections, whereas iFlexS is a more suitable alternative for downpipes. These two innovative products are easy to invert thanks to their high elasticity and can be cured at ambient temperature, with steam, hot water or LED light, depending on the chosen resin. iFlexP and iFlexS liners are available dry or pre-impregnated with epoxy resin.

The high elasticity of iFlex®Lateral ensures easy installation, even through 90° bends if necessary. Additionally, the liner features excellent longitudinal stability. Length modifications resulting from bends or dimensional jumps can be accurately calculated in advance. This ensures high-quality work, even in "open-ended" renovation situations.

Depending on the resin used, fluid temperatures can reach up to 65°C. This guarantees long service life under a wide range of operational conditions.

iFlex®Lateral by Insituform is therefore a reliable and economical choice for municipalities, utility companies, and private customers seeking a versatile and durable solution for the eco-friendly rehabilitation of connections or internal pipelines.

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iFlex® Lateral

3D-Liner	
iFlex S DIBt: Z-42.3-530	iFlex P DIBt: Z42.3-416

1. General Data		
Diameter range	50mm to 200mm	70mm to 250mm
Wall thickness	3,5mm	4,5mm to 6mm
Cured wall thickness	ca. 2,8 mm	ca. 3,8 mm; ca. 4,5 mm
Length available (Standard)	100m	100m
Liner material	Polyester Knit ca. 450 g/m²	Polyester Knit ca. 640 g/m²
Coating	PU; ca. 265 g/m²	PU; ca. 300 g/m²
Suitable resins for impregnation	Epoxy, Silicate.	
Curing methods	Water, Ambient, Steam with calibration hose, UV	
Recommended inversion pressure	0,3 bar	0,3 - 0,5 bar
Burst pressure	0,9 bar	
Maximum curing temperature	65°C	65°C
Maximum medium temperature short time	70°C	70°C
Maximum medium temperature long time	60°C	60°C

2. Mechanical Performance		
Tensile strength along	≥ 400 N/mm²	
Tensile strength across	≥ 400 N/mm²	≥ 400 N/mm²
Elongation at break along	> 80%	> 60%
Elongation at break across	> 110%	> 200%
Radial extension		at 0,1 bar: ca. 18%
Radial extension	at 0,2 bar: ca. 12%	at 0,2 bar: ca. 25%
Radial extension	at 0,5 bar: ca. 36%	at 0,3 bar: ca. 38%
Radial extension	at 0,7 bar: ca. 50%	at 0,4 bar: ca. 50%
Diameter changes	2 x Diameter changes	2 x Diameter changes
Host pipe shape	Any shape	
Host pipe material	All kinds	
Length increase	+5% per dimension skip and +5cm per bend >45°	
Bends	2 x 45° for DN<100, 87° for =/> DN 100	
Stretchability	Note, that all elasticity values are based on the tested temperature of 20°C. Variation in temperatures may affect other values.	

All values mentioned above are measured in a temperature of 20°C

3. Dry Liner Storage
Max 12 month in 5° up to 25°C, strong protected against light.