Technical Data Sheet

Boldan 3D Liner 3,5 mm

DN 30 - 50, DN 45 - 70, DN 50 - 70, DN 60 - 90, DN 63 - 100, DN 70 - 100, DN 90 - 125, DN 95 - 150, DN 100 - 150



APPLICATION AREA

- Suitable for repairing rainwater and waste sewages and pipes
- Flexi FR Tube 3D is PU coated felt pipe or so called liner, that has been reinforced with longitudinal seam for CIPP-usage
- Liner can be cured with steam, hot water or air, according to the instructions of Boldan's application manual

STRUCTURE

- Max. temperature in steam or hot water hardening: 60°C / 140°F
- Liner must be protected from radial expansion (inspection hatches etc.)
- Liner must be protected from leakage water with preliner
- For size modification, we suggest using a calibration hose
- Allows resurfacing even with 90° angles, with almost wrinkle-free final result
- Installation pressure: 0,4 0,8 bar / 5,8 11,6 psi
- Hardening pressure: 0,4 0,6 bar / 5,8 8,7 psi
- Maximum pressure: 1,5 bar / 21.76 psi
- Gap between calibration rollers: 7,6 mm
- Epoxy consumption approx.:

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30 - 50	0,30 kg / m	0.20 lb / ft
45 - 70	0,55 kg / m	0.37 lb / ft
50 - 70	0,50 kg/m	0,34 lb / ft
60 - 90	0.60 kg/m	0.40 lb / ft
63 - 100	0,80 kg/m	0.54 lb / ft
70 - 100	0,80 kg / m	0.54 lb / ft
90 - 125	0.90 kg / m	0.60 lb / ft
95 - 150	1,20 kg / m	0.80 lb / ft
100 - 150	1,20 kg / m	0.81 lb / ft

- Calculated length reduction with a larger proportion approx. - 10 % of the length, whereby the liner retains its original wall strength even in a bigger section
- The values given above are affected by the epoxy used, the pipe size, and the temperature of the epoxy and the environment

RESIN COMPABILITY

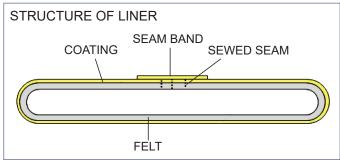
This liner can be impregnated with the following manufacturers' resin systems:

Boldan Oy

- BDA/BD 15, BDA/BD 30, BDA/BD 45, BDA/BD 60
- BDA+ 15, BDA+ 30, BDA+ 60
- BX 10, BX 15, BX 30, BX 60, BX 180
- BE 15, BE 30, BE 60, BE 180
- BC 15, BC 30, BC 60
- B1 15, B1 30

SewerTronics™ Ep 1k epoxy resin





PRODUCT INFORMATION		
Country of origin	Finland	
Base material	100 % polyester	
Liner coating	Polyurethane	
Material thickness	3,5 mm with coating	

COATING

- Compability of this liner is tested positively with these resin systems
- If this liner is about to be used with other resin systems, the compability must be tested first
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SHIPPING, STORAGE, HANDLING

- Material has to be protected from chemical or mechanical attacks such as UV-light, moisture and climate changes
- Store in dry and cool place max. + 5°C + 25°C / 41°F - 77°F
- Liner storage time is 12 months (if the storage time exeeds, we are not responsible of possible damages occured)