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Gebr. Röders AG

 Tradition + innovation from Soltau



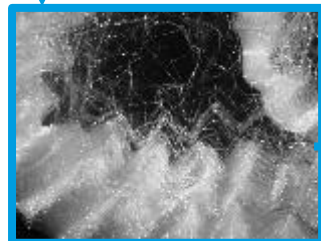
Manufacture of needled felts

🔧 From single fibers to flat fabrics ...



Ballen gepresster Einzelfasern

Fasern vereinzeln,
gerichtet ablegen



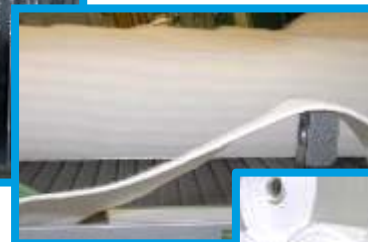
Lagen gerichteter Einzel-
fasern übereinander legen



Vernadeln (Verbund zwischen den Fasern herstellen)



Dickenvergleich vor-
und nach Vernadelung



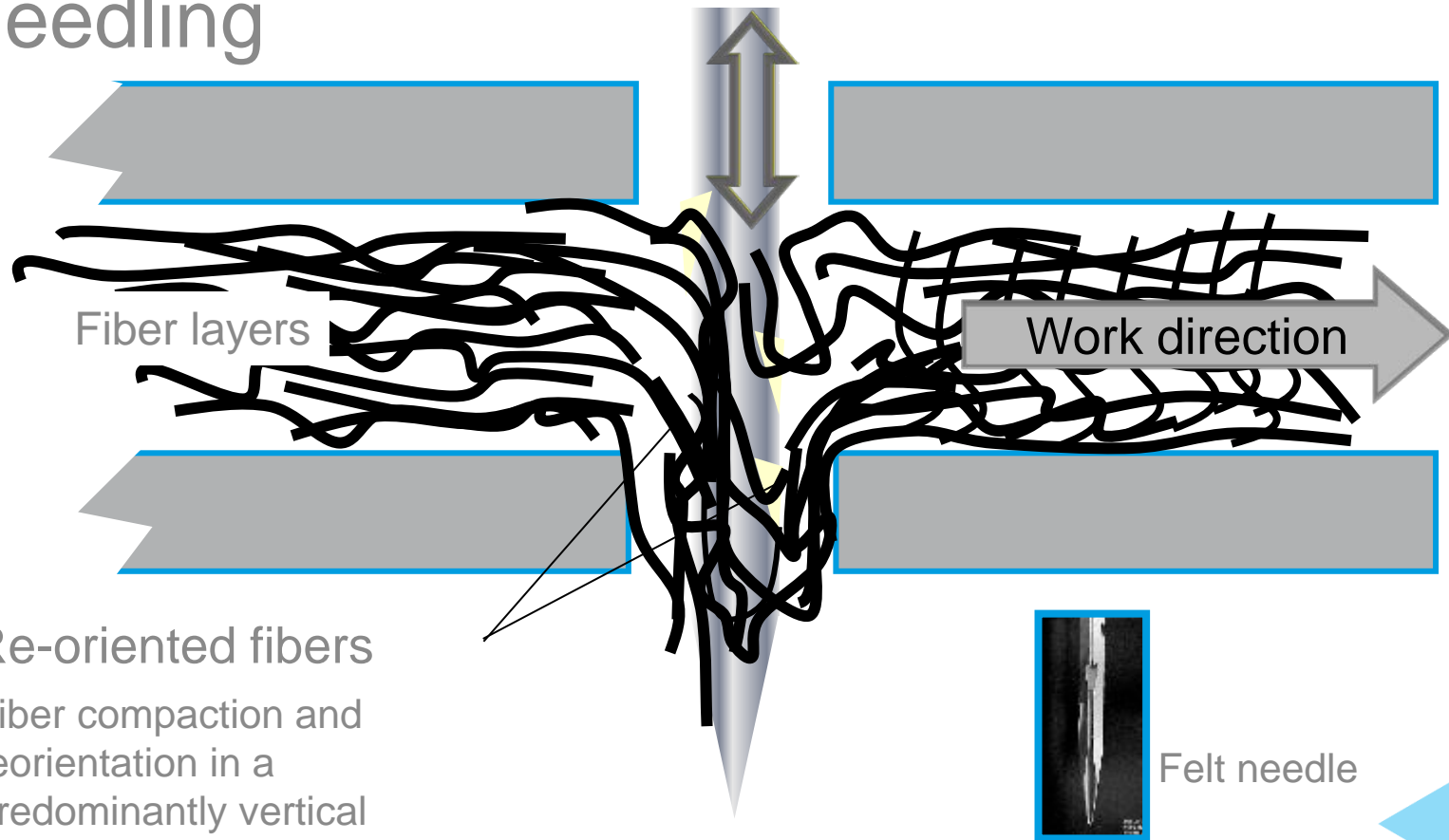
homogene Flächenware



Anpassung an die Anwendung

Manufacture of needle felts

Needling



Fiber layers

Work direction

Re-oriented fibers

Fiber compaction and reorientation in a predominantly vertical direction

Felt needle

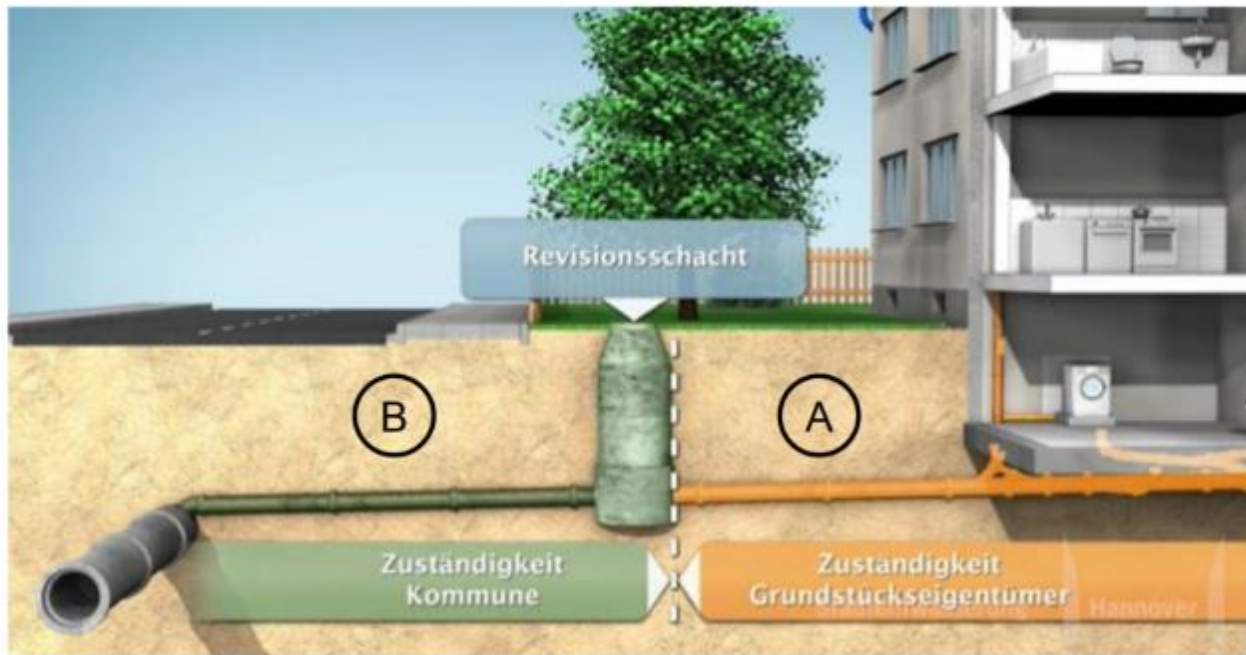
Various seam designs with chain stitch seam and overlapped stitch seam



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I. Areas of application



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A Privat ground: Connection House, Inhouse

B Local authority: Drinking (Potable) Water, Sewage (Pressure), Sewage (Gravity)

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I. Specification Houselining

- 👉 We define: “Houselining” includes house connection to the main sewer and inhouse application

Typ. application requirements

- 👉 DN 40 – DN 250
- 👉 Small diameters
- 👉 Very good bending flexibility
- 👉 Up to 2 transition steps (e.g. 100-125-150 mm); Stretchability appr. 50%
- 👉 Curing process: ambient, hot water, steam, UV
- 👉 Safe, reproducible and reliable installation process

Additional system features, e.g.

- 👉 fire behavior DIN EN ISO 11925-2
- 👉 Flammability DIN 4102 Teil 1
- 👉 etc.

II. Renovation of large profiles and pressure pipes.

Diameters up to DN 1400

Wall thicknesses from 2 mm to 41 mm

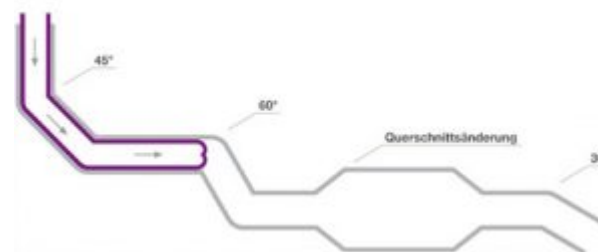
Single or multi-layer construction with or without glass layer.

Systems for hot water, steam or UV light curing

For pressure or gravity pipelines

Can be used for the rehabilitation of pipelines of any kind.

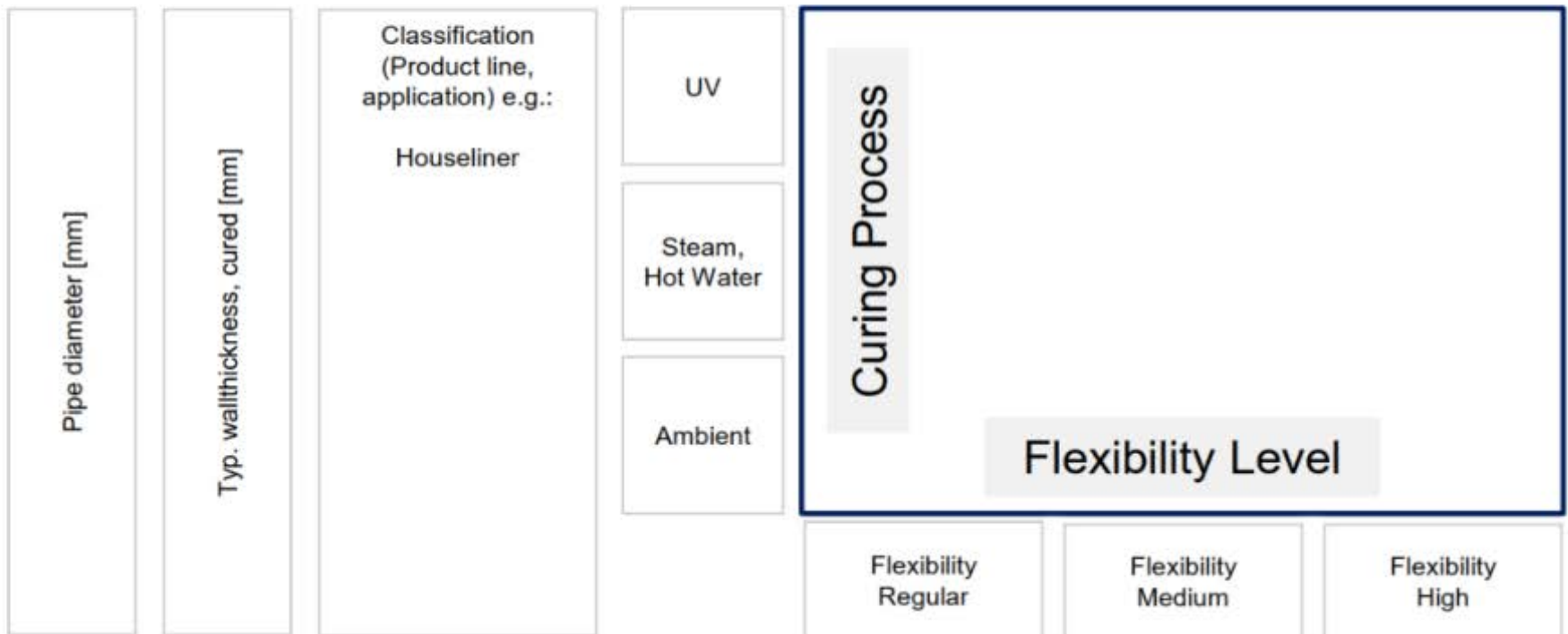
Transitions can be passed



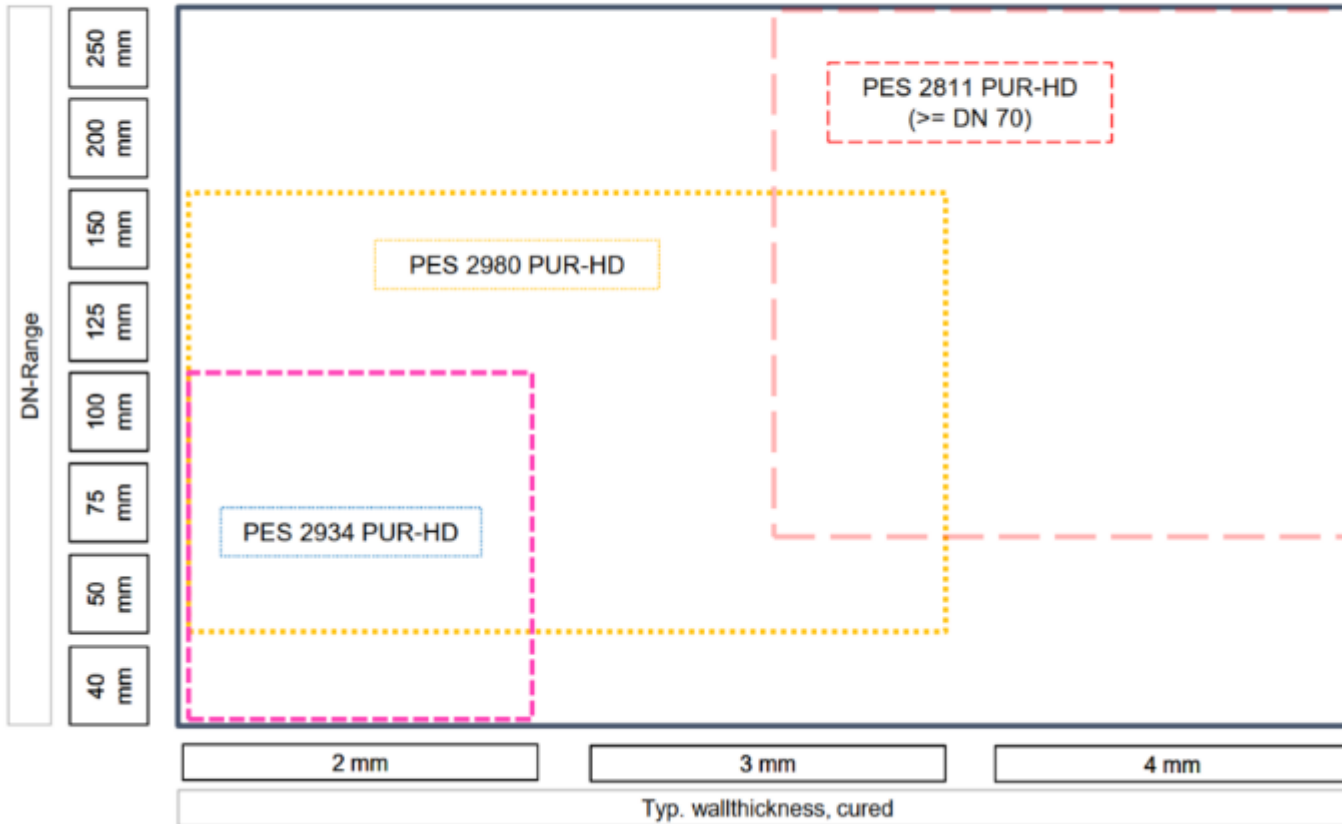
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II. Product Configuration Scheme



III. F: Steam / High Flex

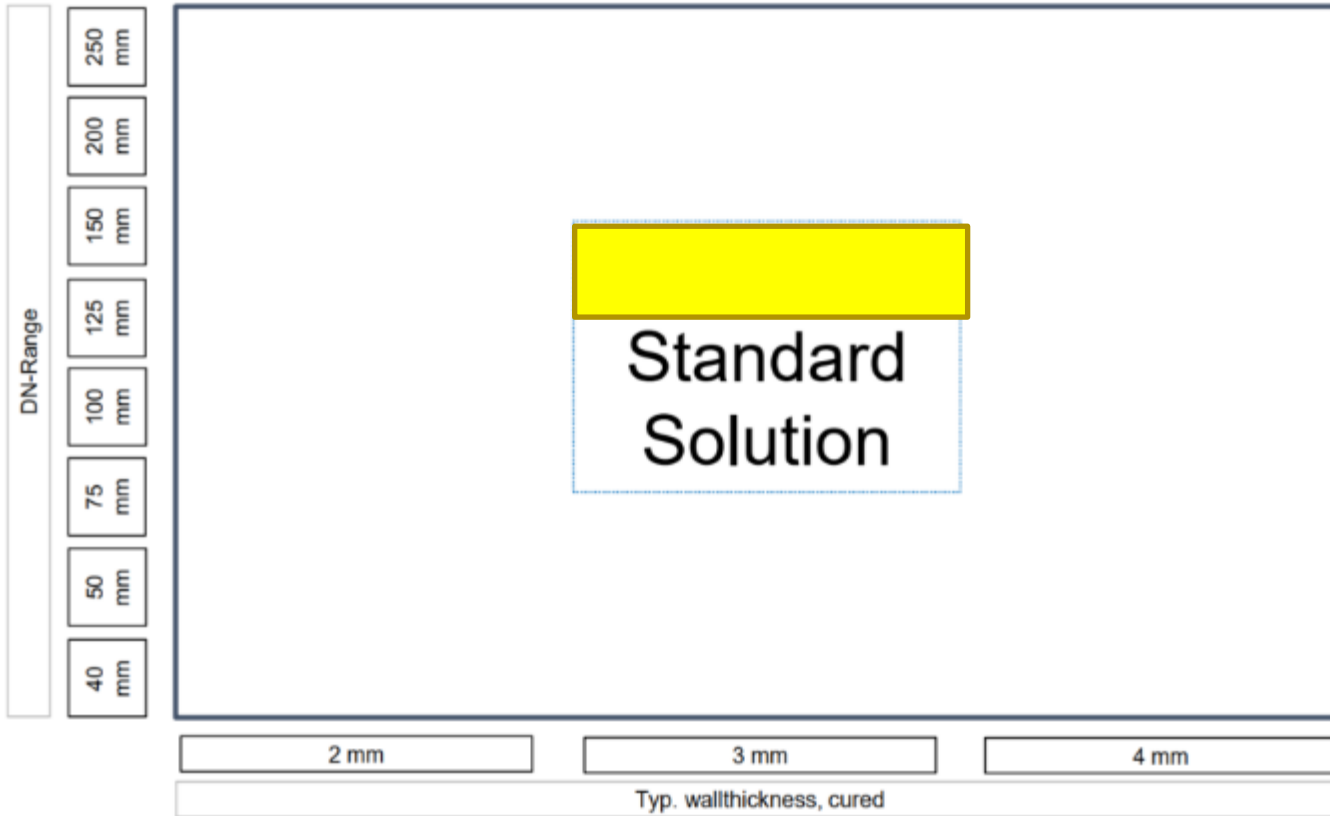


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III. I: UV / High Flex



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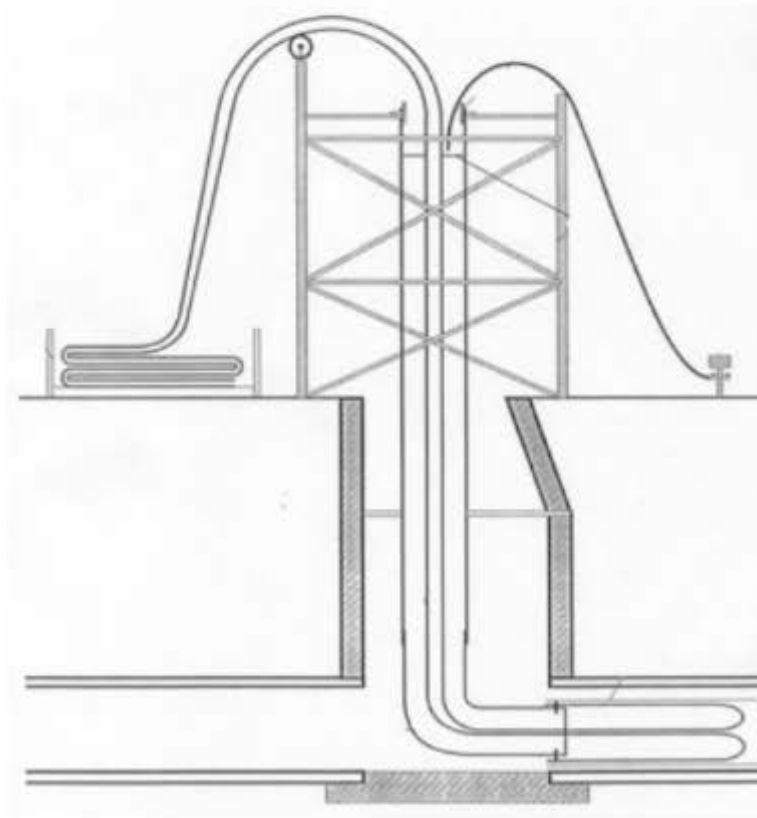


Abbildung 1: Darstellung Inversionsvorgang, in Anlehnung Deutsches Institut für Bautechnik (DIBt)

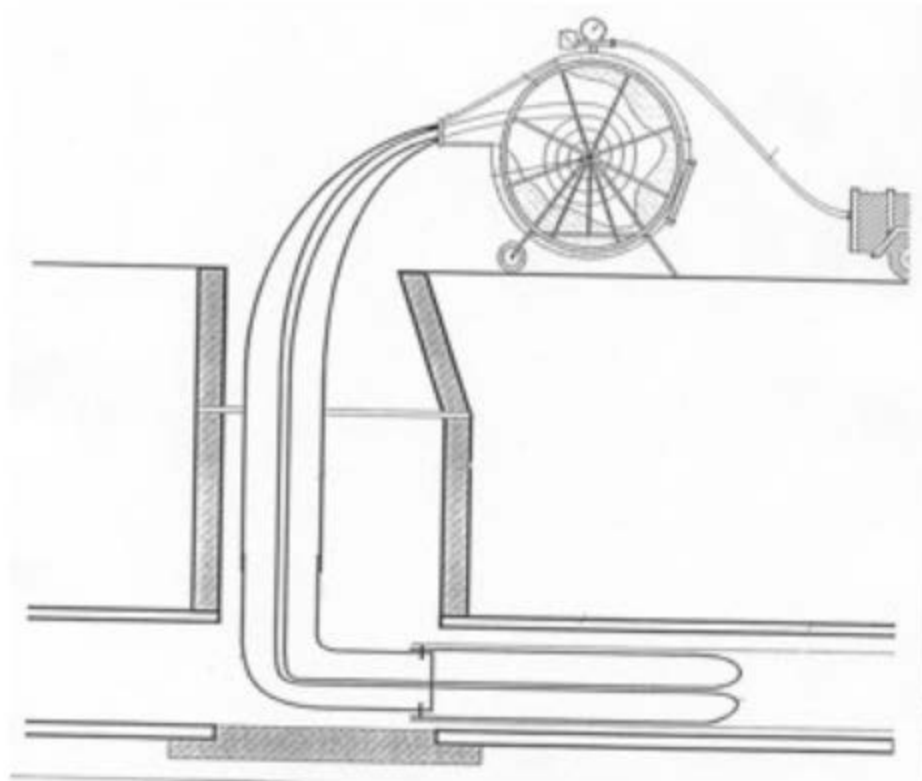


Abbildung 4: Darstellung Drucktrommel in Anlehnung DIBt



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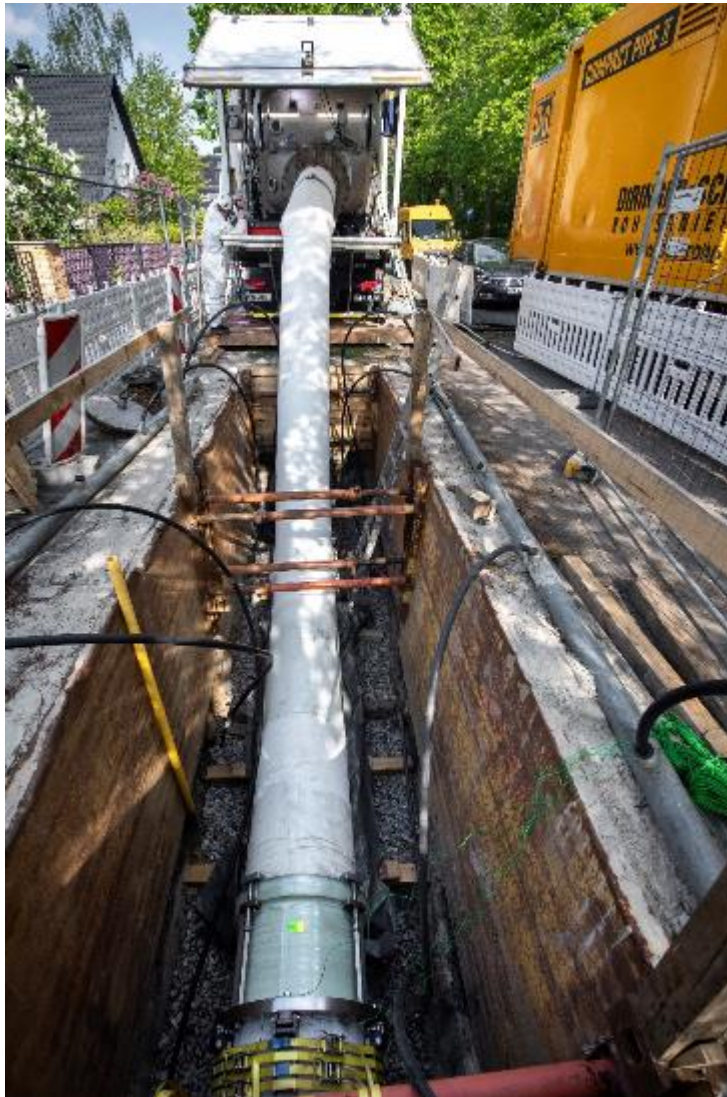


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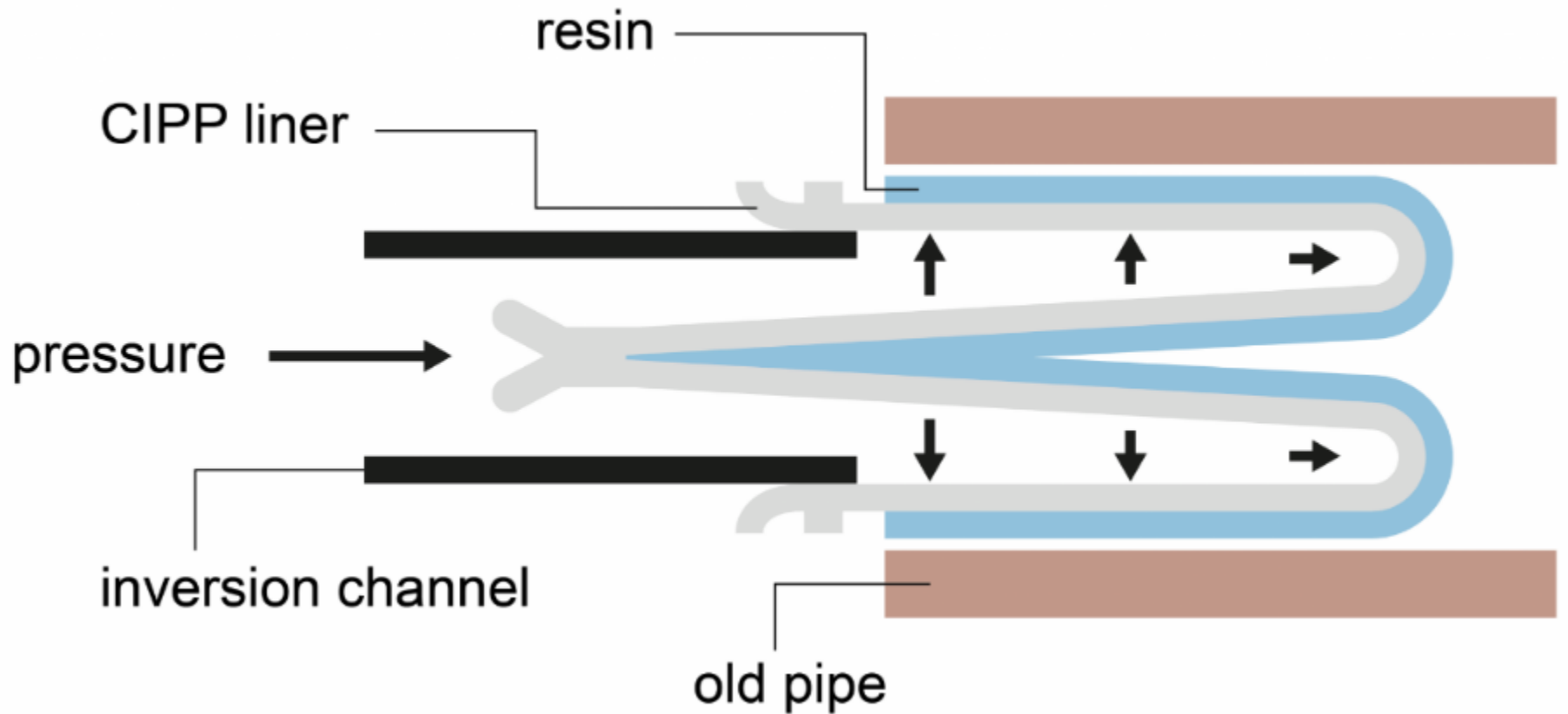


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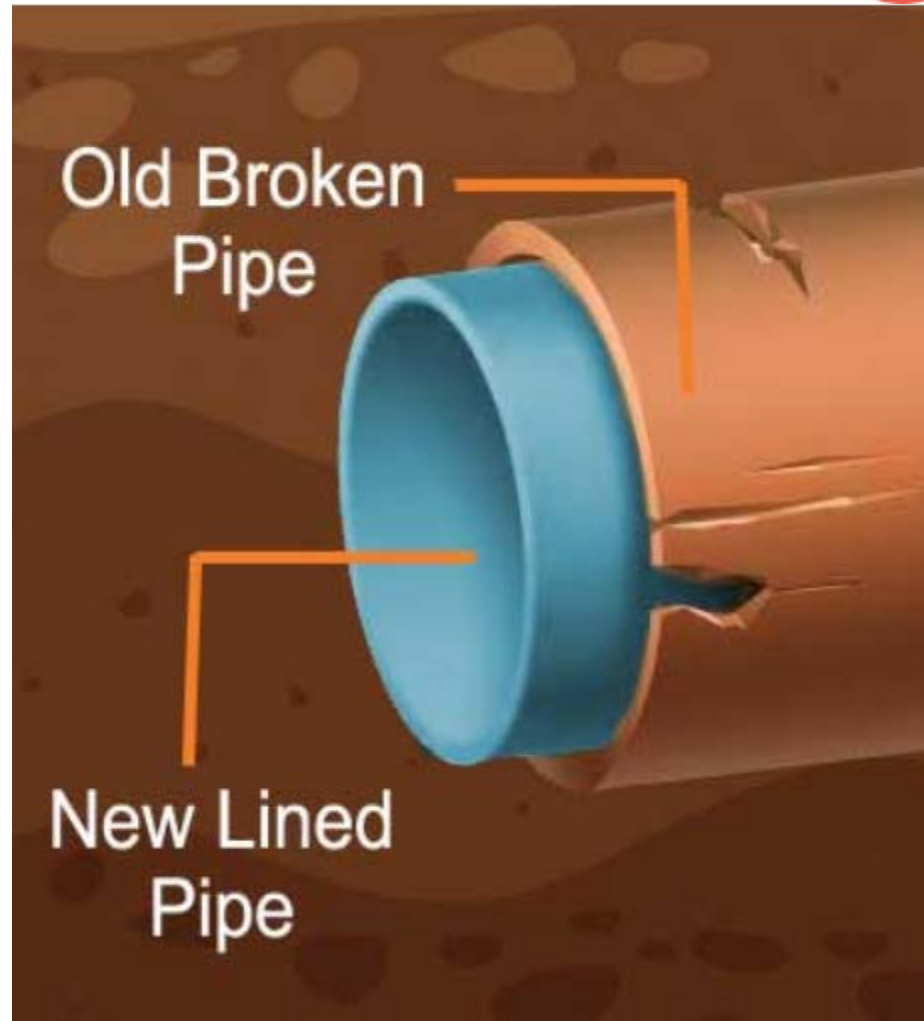


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Thank you very much for your
attention

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