



CERTIFIED TRENCHLESS SEWER REHABILITATION IN
RAILWAY SURROUNDINGS WITH BRANDENBURGER LINER:

**Verified and safe
under load.
BB RAIL**

THE GREEN SOLUTION



Brandenburger Liner



We from Brandenburger Liner, the high-quality CIPP liner manufacturer with more than three decades' experience in trenchless sewer and manhole rehabilitation, are your reliable partner for maintenance of the sewer infrastructure.

We are always by your side when you need us.

Efficiency, cost effectiveness and sustainability! Irrespective of the complexity of the measures, we provide precisely that with innovative rehabilitation solutions.

With Brandenburger Liner by your side you take it easy with your project. We provide the resource-friendly, maintenance- and planning-friendly solution for vertical and horizontal rehabilitation of the sewer infrastructure:

THE GREEN SOLUTION



Personal and local

Direct support and advice, fast help, technical support on the construction site.



Sustainable & eco-friendly

Reduced CO₂ emissions, less material usage, resource-friendly procedure.



Flexible & innovative

Solutions for all challenges, from standard procedures up to special solutions.



Fast & efficient

No open construction sites, fewer traffic hindrances, short construction times.



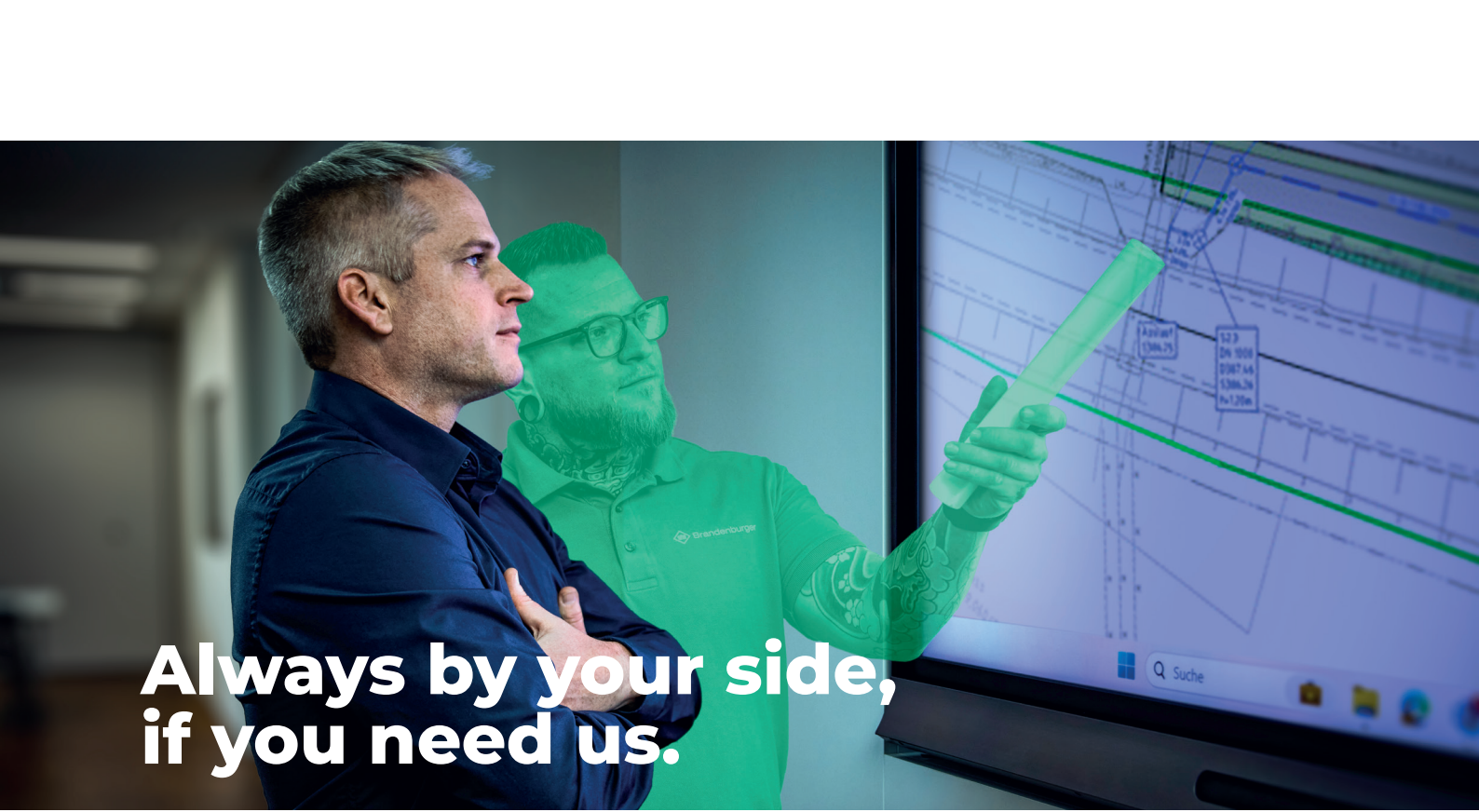
Durable & Economical

Service life of over 50 years – an investment which pays off.

**You can find further
information and reasons
why Brandenburger Liner
is the right partner for
you here:**



Since **1994**, our high-quality liners have already rehabilitated more than **12,000 km** sewer infrastructure.



Always by your side, if you need us.

Trenchless rehabilitation with GRP liner is the perfect solution within the sphere of rail traffic. However, this sets special requirements to material and know-how.

With the **BB RAIL**, Brandenburger Liner offers a liner specifically certified for the sensitive rail environment, based on the DIBt approval (Z-42.3-490) from BB^{2.5}. Fully comprehensive service and the best possible advice regarding the overall rehabilitation period round the perfectly tuned overall solution. This promises maximum planning safety for your project.

Our liner offers:

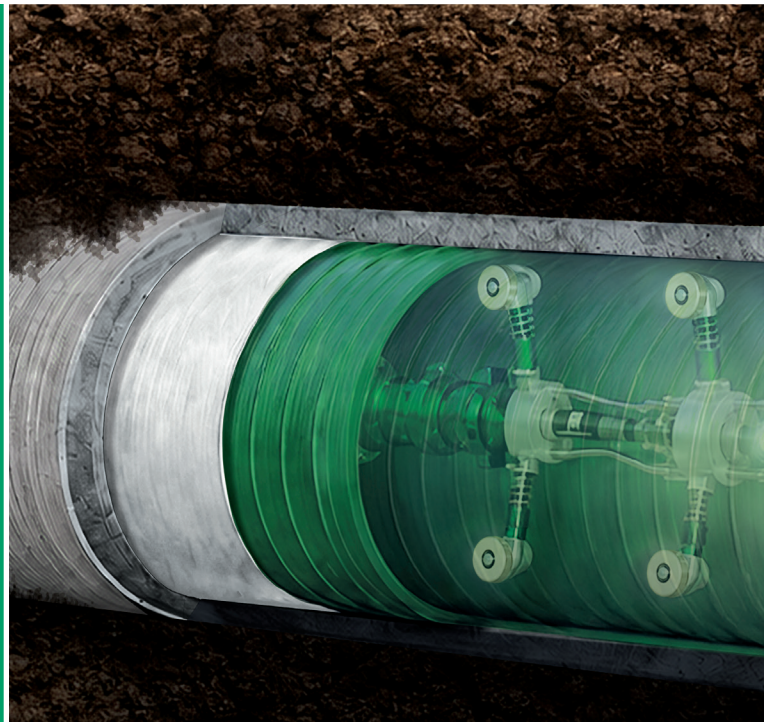
- ◆ Proven suitability, specifically for use in case of railway loads.
- ◆ Extreme fatigue resistance.
- ◆ Proven installation-friendly system.
- ◆ High strength of material enables comparatively thin wall thicknesses.



Brandenburger Liner specialises in the development and manufacturing of customised UV light hardening GRP CIPP liners. We are a **pioneer** for trenchless sewer and manhole rehabilitation with our innovative, patented winding technology.

BB RAIL

THE LINER FOR
SEWER REHABILITATION
UNDER RAILWAY LOADS.



The basis for **BB RAIL** is provided by our proven Brandenburger Liner technology. The area of use incorporates round pipes from **DN 150** to **DN 1000** and ovoid profiles. High rigidity is generated via the unique construction of the glass mats used. This also enables the selection of a fitting variant for the highest static requirements with a liner as thin as possible.

The **BB RAIL** convinces with the tested* and proven performance of a GRP composite. The requirements for vibration resistance in the rail sector are met by the load-bearing laminate itself. Here, a robust and constructively independent liner system is available, **whose proof of function does not depend on an integrated liner as a function-determining additional component.** !

What makes the BB RAIL so special:

- ◆ Specially developed for the rehabilitation of gravity sewers and passages where the burdens from rail traffic take effect.
- ◆ Enables fast rehabilitation of critical sections of the railway structure.
- ◆ High mechanical rigidity, which enables the use of lower wall thicknesses as opposed to traditional CIPP liners and reduces the weight of the GRP liner.
- ◆ 3–10% expansion rate.
- ◆ Round and ovoid profiles from DN 150 to DN 1000.
- ◆ Installation depths ≥ 1.10 m to 5.50 m. (Please refer to standardised statics technical data sheet BB RAIL)
- ◆ Proven fatigue resistance with cyclic load (59.4 N/mm^2 at 10^8 load cycles).
- ◆ Approved within the scope of the BB²⁵ DIBt.
- ◆ Smooth liner inner surface ensures high sewage flow speed.
- ◆ Excellent static features.
- ◆ High cost effectiveness of the construction project.

* Basic area of use in accordance with DB regulations:
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Brandenburger Liner

BB SERVICE BB RENTAL



RENTAL PARK

The right equipment for every construction site – fast and flexible.

- ◆ UV systems up to DN 1600
- ◆ Conveyor belts up to DN 1600
- ◆ Winches for up to 5 tonnes
- ◆ Circular profile packers up to DN 1600 and ovoid profile packers up to DN 1200/1800
- ◆ Special equipment for manhole installations

PRODUCT TRAININGS TECHNICAL TRAININGS

Our know-how – your next step.

- ◆ Individual training – in-house or directly on-site.
- ◆ Practical installation demos directly at your construction site.

SUPPORT CONCEPT/ APPLICATION TECHNOLOGY

Individual support – perfectly catered to your needs:

- ◆ **Planning support** for the preparation of your construction sites.
- ◆ **Installation support** from experienced application engineers directly on-site.

YOUR CONTACT



Kai Meyer

**Product Manager
Service**

☎ +49 174 309 3605

✉ k.meyer@brandenburger.de



Manuel Geißler

**Head of
Application Technology**

☎ +49 175 644 1002

✉ m.geissler@brandenburger.de



You can find technical product data sheets, installation manuals, hardening tables, approvals, certificates and more under www.brandenburger-liner.com/infocenter/downloads





Brandenburger Liner

Brandenburger Liner GmbH & Co. KG

Taubensuhlstraße 6 | D-76829 Landau / Pfalz

Telephone no. +49 6341 5104 -0 | welcome@brandenburger.de
www.brandenburger-liner.com



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