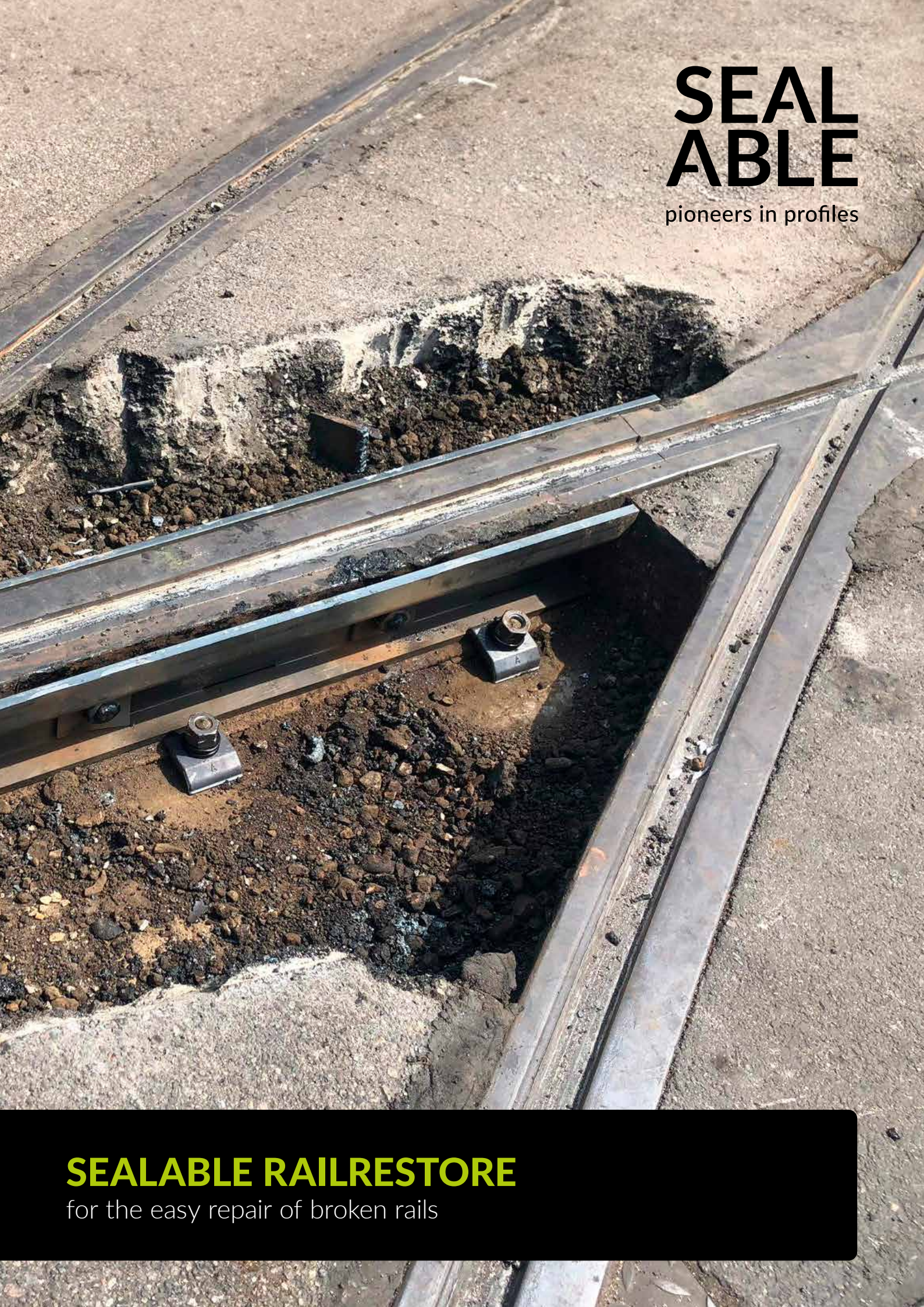


SEAL ABLE

pioneers in profiles

SEALABLE RAILRESTORE

for the easy repair of broken rails

SEAL
ABLE
pioneers in profiles

In order to maintain rail traffic and ensure the safety of everyone involved, broken rails must be repaired quickly.

RAILRESTORE
FIRST AID FOR BROKEN RAILS

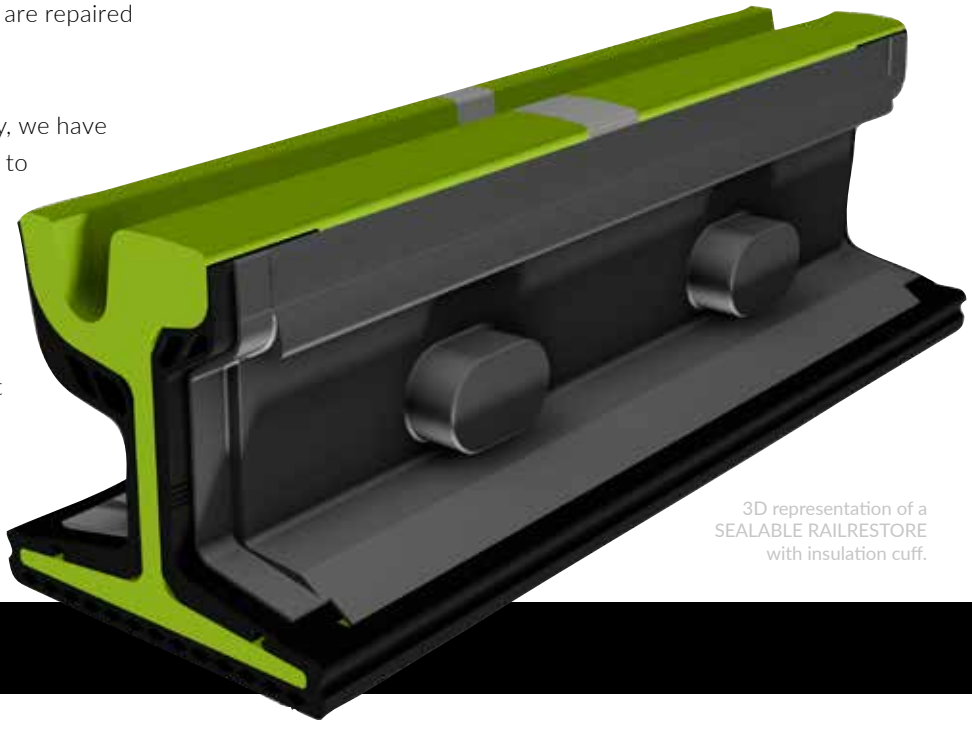
A broken rail is not uncommon in ongoing railway operations and poses several dangers. The breakage point necessitates slow passage, as it can lead to a train derailment in the worst-case scenario. Delays as well as personal injury or property damage may result.
To avoid damage and accidents, railway companies regularly monitor their tracks by using special maintenance and monitoring technologies. This allows to detect and repair broken rails in early stages.

But what happens when a defective rail is discovered? The track must be closed and the rail section repaired. In order to maintain rail traffic and ensure the safety of everyone involved, it is important that broken rails are repaired quickly and safely.

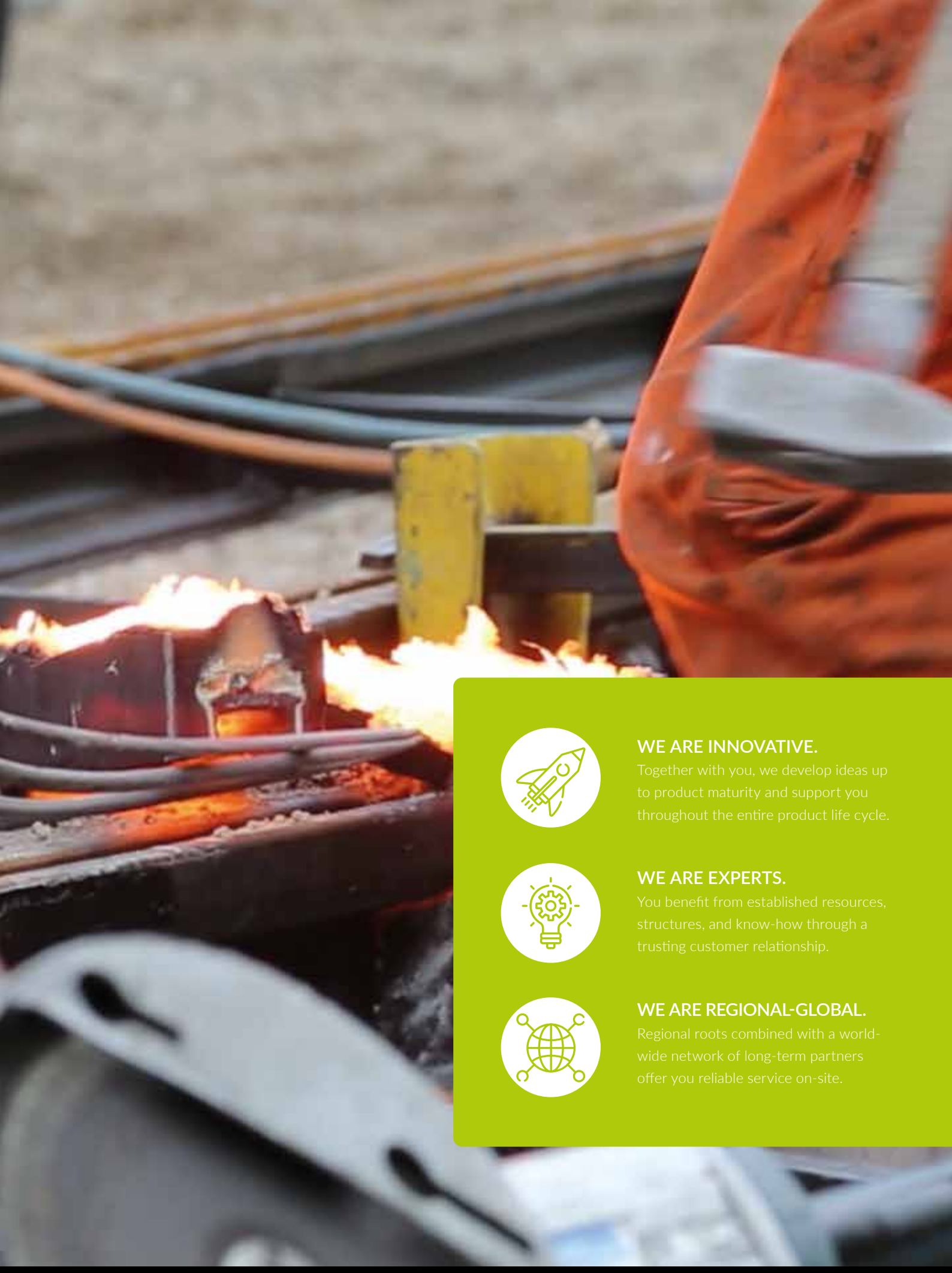
In order to restore the situation promptly, we have developed a rail joint bar that allows you to repair the rail quickly and easily.

With SEALABLE RAILRESTORE, broken rails are eliminated in the shortest possible time and at the highest level. A complex rail replacement is avoided and the associated long-term track closure is prevented.

RAILRESTORE is available for various rail types. Common types such as Ri60, 105C1, or S49 are available directly from stock. If required, we will be happy to produce a RAILRESTORE for your specific rail and support you in selecting and installing the best solution for your infrastructure.



3D representation of a SEALABLE RAILRESTORE with insulation cuff.



WE ARE INNOVATIVE.

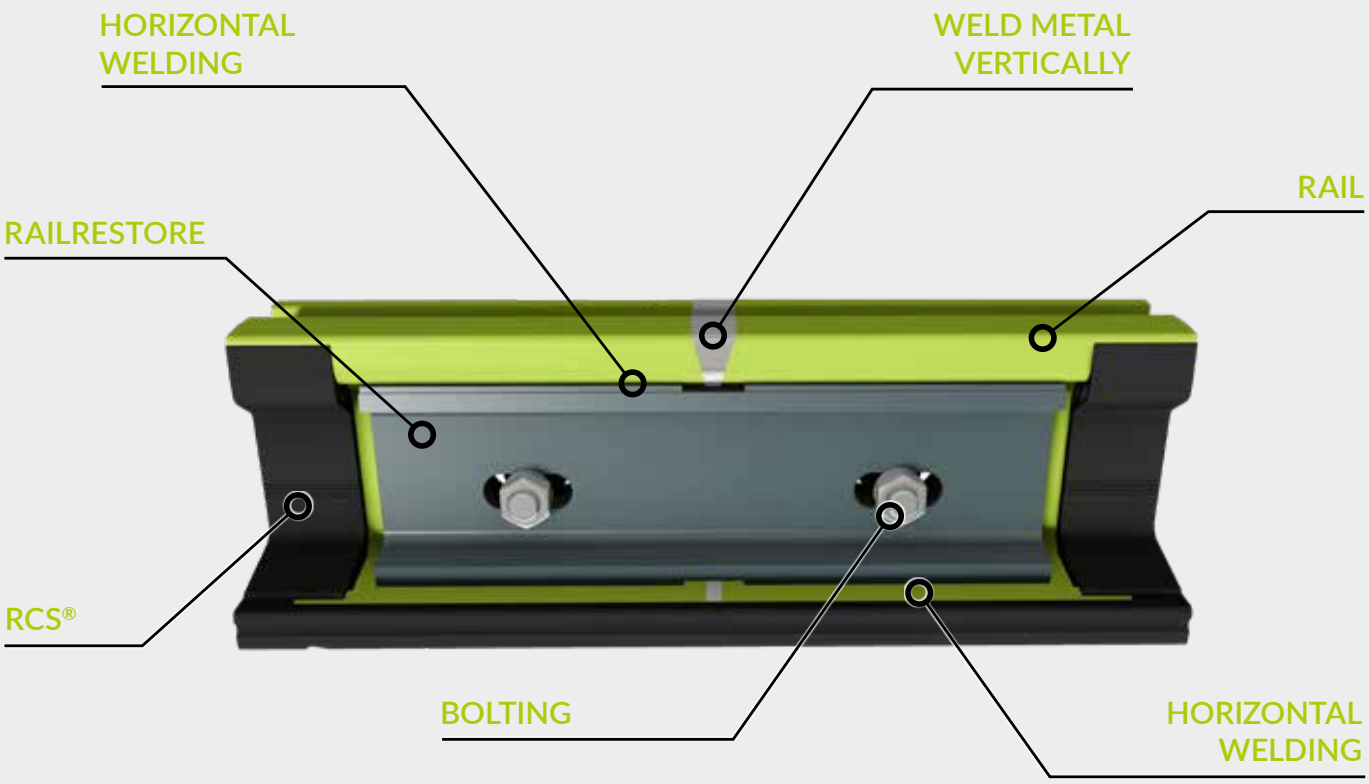
Together with you, we develop ideas up to product maturity and support you throughout the entire product life cycle.

WE ARE EXPERTS.

You benefit from established resources, structures, and know-how through a trusting customer relationship.

WE ARE REGIONAL-GLOBAL.

Regional roots combined with a world-wide network of long-term partners offer you reliable service on-site.



WHY OUR RAILRESTORE?

The SEALABLE RAILRESTORE is a patented solution for broken rails that eliminates the need for complex repair work. It consists of a joint bar that is easily and quickly mounted around the broken rail. Only the section (approx 0.5 m) around the damaged area must be exposed. The RAILRESTORE components are fixed to the rail via two holes and bolts. By bolting RAILRESTORE to the rail, it is vertically stabilized and aligned in horizontal and vertical directions at the same time. This allows trams to run over the tracks again shortly after installation. Additional repair work, such as welding and insulating the repaired area can be done in parallel.

Typically, the high heat that is generated during the welding process, destabilizes the metal inside the rail around the damaged area. This increases the risk of a new fracture nearby. The RAILRESTORE is firmly connected to the rail and reinforces the repaired area and preventing any further fracture in the area before and after the weld.

In summary, SEALABLE RAILRESTORE is the ideal solution for broken rail. It enables fast, safe and long-lasting repairs while reducing long-term costs.

Nighttime repair work to fix a broken rail by using RAILRESTORE.

RAILRESTORE ADVANTAGES AT A GLANCE

1 MINIMAL DOWNTIME

Minimization of operational interruptions through quick and easy assembly with prefabricated parts.

Repairing with RailRestore results in a time saving of 20% to 30% compared to conventional methods.

The rail operation can continue even during the repair.

2 PATENT & CERTIFICATIONS

The RAILRESTORE is a system for repairing broken rails, patented since 2017, with and without insulation cuff.

Certified according to DIN EN ISO 9001, DIN EN ISO 14001, DIN EN ISO 50001, and DIN EN ISO 45001.

3 EASY HANDLING

High-quality breakage repair is achieved through simple assembly with prefabricated parts. Bolting connection stabilizes the rail vertically at the break and aligns it both horizontally and vertically. Additional welding and fastening of the RAILRESTORE prevents further breaks.

4 WELD POOL BACKING

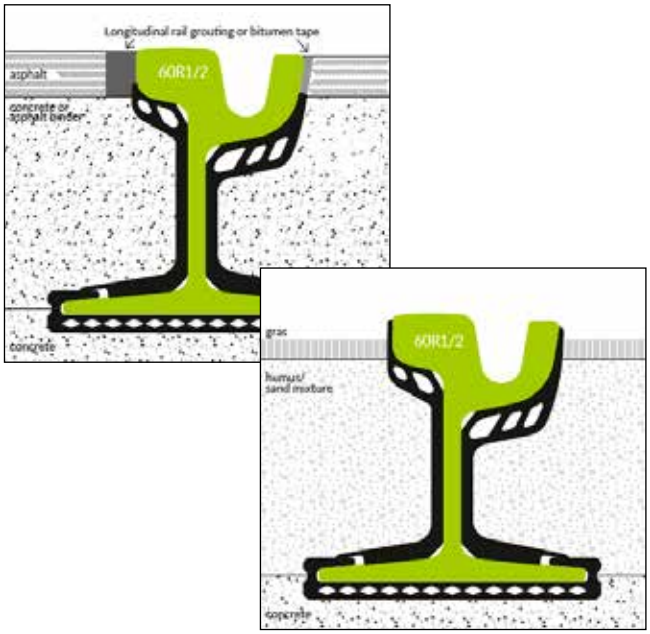
In vertical welding, the weld pool is secured by the RAILRESTORE.

5 ISOLATION

The repaired area can be easily insulated. A specially designed two-piece cuff covers the sides of the RAILRESTORE. The base insulation remains intact.

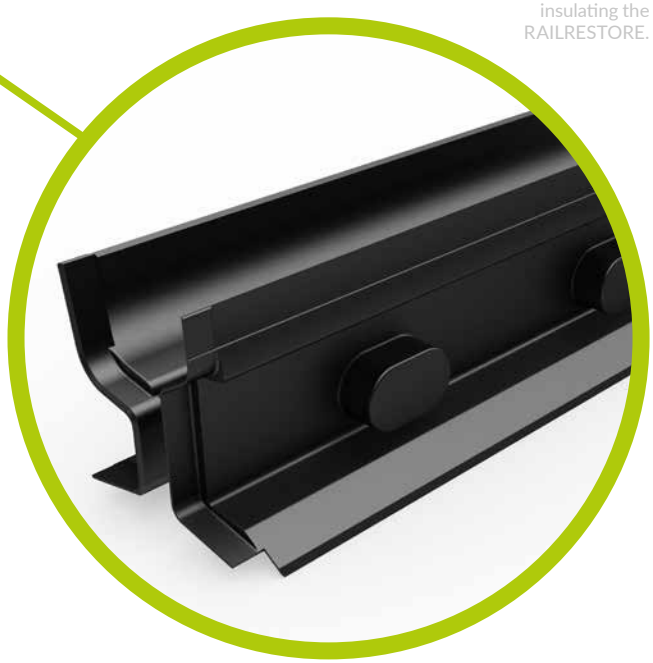
RCS® FOR RAILRESTORE INSULATION

The Rail Comfort System decouples the track from the adjacent superstructure and significantly reduces shocks and vibrations caused by tram traffic. The highly effective mounting also serves as stray current insulation and vibration damping. It is an affordable, environmentally friendly full insulation for grooved rails with the aim of minimizing stray current and reducing structure-borne noise. RCS® can be used in all known superstructure constructions. The 3-part profile system is individually adaptable to different rail types. The customized profile geometries enable cost-effective and easy installation.



If a broken rail occurs on a track insulated with RCS®, this area can be re-insulated as well. For this purpose, a special two-piece cuff was developed to cover the RAILRESTORE. The base covering remains intact, and only the side profiles are supplemented with the new cuff. It is bonded and sealed similarly to the RCS®.

Cuff for insulating the RAILRESTORE.



ON-SITE-SERVICE

To provide our customers with the best service, we have established a powerful „Application Engineering“ department that supports our customers promptly and worldwide with the highest quality. Our application engineers are the first point of contact when it comes to practical support for your project. Key focus areas include on-site worker training in the processing of our profiles, taking measurements for our production, and assisting with solving all kinds of installation problems.

More than fifty years of market experience provide the foundation for our range of high quality sealing solutions to meet every challenge in your project.

WE ARE EXPERTS IN THE FIELD OF PROFILES AND SEALING.

It all began more than 200 years ago with the production of fire hoses. Combined with product diversification, our expertise in elastomer profiles and know-how in processing various types of rubber have grown over the past 50 years.

Through various stations and ownership relationships starting with PHOENIX AG, ContiTech AG, later PHOENIX Dichtungstechnik GmbH and finally DÄTWYLER Sealing Technologies Deutschland GmbH, our organization developed into an internationally operating company.
In 2018 we received the Thuringian Innovation Award in the "Tradition & Future" category for our product "Bicycle safe track", we also have 43 patents.

With the management buy-out in May 2020, SEALABLE Solutions GmbH now operates as a Thuringian company with a global network.

Our premise is not only global sales; above all, trusting and close contact with our customers and partners is our top priority. This means that our partnerships are sustainable and often include an entire product life cycle.

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