

EFFICIENT LIGHT DURABLE

CTS offers high-quality GRP construction solutions for a wide range of railway applications. With our extensive expertise, we deliver customised products that are designed for efficiency, low weight and durability. From non-slip escape routes to screw foundations.

In addition to practical work platforms, our GRP solutions offer outstanding performance in railway technology. Make your projects more efficient and more resistant.



Screw foundations



Railway infrastructure



Chemical industry



Sewage technology



Cooling tower construction



Jetties



Offshore



Architecture



Bridge construction



Chip-level production



CTS
The Composite Company

GRP constructions
Railway infrastructure
Efficient – light – durable

Many good properties make GRP projects look good.

- Extremely corrosion-resistant
- Low weight with high strength
- No rust or rot formation
- Antimagnetic
- No sparking
- Non-slip with high walking comfort
- Long service life
- Minimal maintenance costs
- Simple installation

OVER
30 YEARS
FIBRE
COM-
POSITES



**# STRONG
LIKE
STEEL**

How can we help you?

We look forward to hearing from you.

Contact us

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**EBA
APPROVAL**
DBS 918010





THE RAILWAY RELIES ON GRP

By combining glass fibers and resin systems, a material of high strength and low weight is created. Particularly since its approval by the Federal Railway Authority (EBA), more and more GRP (Glass Fiber Reinforced Plastic) constructions are being used in railway construction. Thanks to its easy processing, even large structures can be assembled on site –

grounding and maintenance are not required. GRP also proves to be forward-looking in terms of its environmental footprint. Less energy is required for its production compared to conventional materials. A unique take-back system guarantees 100% recycling of the material.

Our innovative product range:

- Staircase constructions
- Slip-resistant grating steps
- Service walkways
- Emergency escape routes
- Access platforms
- Platforms
- Work platforms
- ...



Creating pathways

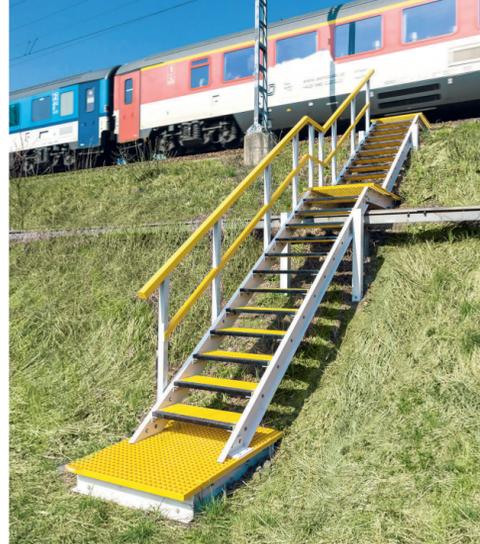
Safety is the top priority for both travelers and personnel. Wooden or steel walkways present an increased risk of slipping, especially in autumn and winter. In contrast, GRP grating constructions are highly slip-resistant.

Thanks to the specially developed VARIO system, GRP service walkways can be **quickly and flexibly assembled**. Whether standard, adjustable, or drivable – the VARIO system always provides the ideal solution.

With travelers' needs in mind, GRP gratings are also manufactured with very small mesh sizes to ensure safe footing. The use of grating systems in signal yellow adds another significant safety aspect within the track area.

Optimizing costs

During the construction of GRP structures, labor-intensive foundation work is eliminated. Both screw foundations and pre-fabricated GRP constructions can be installed using portable equipment, avoiding the need for time-consuming and costly track closures or heavy machinery. This construction method saves time, reduces costs, and also simplifies the safety arrangements.



Extending service life

GRP is characterized by high strength and a long service life. Its lightweight nature and ease of processing allow for quick on-site assembly, even for complex structures.

Thanks to the modular design and the use of innovative foundation elements, even long platforms can be constructed in a short amount of time.

Smaller platforms are also cost-effective: in addition to enhanced safety, GRP constructions are weather- and corrosion-resistant, requiring almost no maintenance.

Increasing productivity

The lightweight nature of GRP, combined with the customized design of workshop equipment, ensures safer and shorter work paths. Stair treads, grating, walkways, and access points offer exceptional safety in oily areas thanks to signal colors, electrically insulating properties, and high slip resistance. Mobile designs further optimize workflow efficiency.

Long work platforms are suitable for different trains with variable stopping points. Screw foundations and modular GRP construction allow for temporary, reusable installations.



KRINNER Screw Foundations

Innovation means making the light even lighter. CTS and KRINNER screw foundations offer an efficient, concrete-free, and durable solution. These screw foundations enable precise construction without the need for dual-mode technology or track closures. The foundation installation is completed in just a few minutes—without excavation or concrete. This saves a tremendous amount of time and reduces construction times to a minimum.

The combination of easy installation and secure stability strengthens the partnership between KRINNER and CTS, providing additional benefits for the use of GFRP materials.

