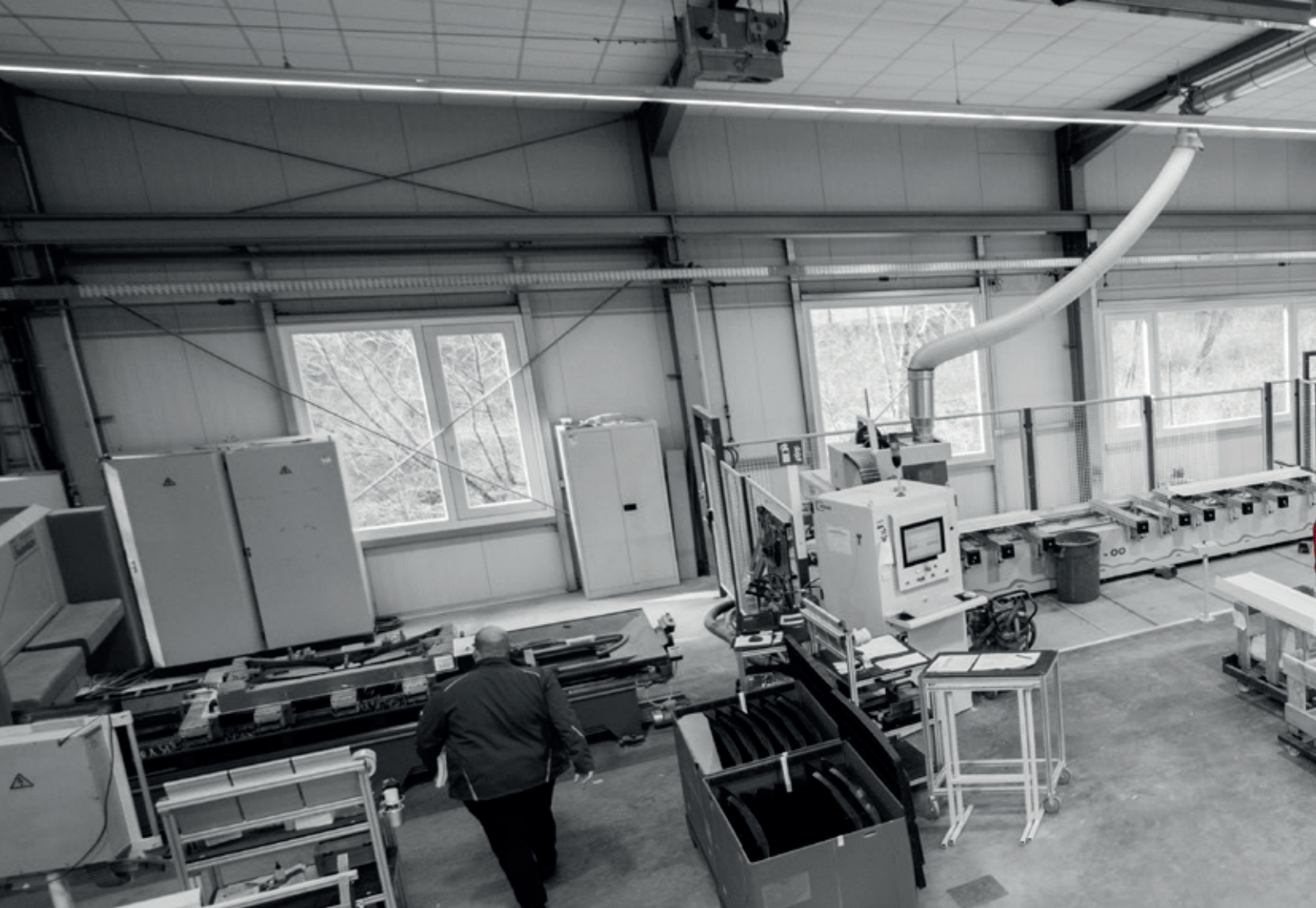




# GRP solutions for traffic and transport

Lightweight. Robust. Good economic sense.





# Lighter. Safer. More cost-efficient.

Composites are particularly sought-after in the transport sector due to their special technical and physical properties. Techno-Composites Domine GmbH, TC for short, has been working for prestigious European manufacturers of rail vehicles, buses, trucks and sports car manufacturers for many years. We use components made of glass fibre reinforced plastic (GRP) to develop customised products that meet the highest requirements for quality, safety and cost-efficiency. As a result, TC components can be found in the exterior panelling, for example as roof panels, floor skirts or split side wall cladding, as well as in the interior of trains, buses and trams as covings, ceiling systems, door lintels or air ducts. And now even in exclusive sports cars.

## System supplier in the transport sector

As a system supplier for the transport sector, we develop and produce customised solutions based on GRP components. Our claim is that we always come up with solutions that are technically and economically feasible. We also include other plastics and metals in this claim. The result of our work are integrated and ready-to-install systems for the transport sector. We are happy to supply the TC components in predefined logistics modules to make your incoming goods inspection and logistics easier.



Machine hall of Techno-Composites Domine GmbH in Meppen, Lower Saxony. This is where CNC machining of the GRP profiles takes place.

## Strong profiles

The pultrusion process, also referred to simply as pultrusion, enables the integration of several functions in one profile. The result is paintable surfaces and components that can be optimally adjusted to the relevant fire protection requirements. And with very good mechanical strength too! The GRP profiles we use are developed jointly with our partner Exel Composites. This means we can also integrate your specific requirements into a GRP profile.



## Composite materials in the transport sector:

- Low weight for minimal energy consumption
- Design freedom for customised shapes
- High strength and stiffness
- High resistance to fracture
- Controllable fire protection properties
- High thermal insulation
- Corrosion resistance
- High-quality, paintable surfaces





# Convincing solutions.

With our experience and the corresponding know-how, we are a reliable partner for companies in the traffic and transport industry. We offer tailor-made products that meet the highest requirements in terms of safety, quality and profitability. This applies to both 3D components and our composite fibre profiles, which are manufactured using the pultrusion process. We equip the components with exactly the properties you need: high-quality surfaces, rigidity, thermal and electrical insulation behaviour and fire protection properties.

We also support you with:

- 3D CAD models
- Consulting and optimisation
- Simulation of load cases (FEM calculation)

## Certified quality

TC stands for individual solutions of the highest quality. In this way, each component is developed taking into account the specific requirements and standards. Qualification in accordance with DIN EN ISO 9001:2015 confirms the high standard of our quality management. As specialists for fibre composite materials in the rail vehicle sector, we also hold the IRIS certificate in accordance with ISO/TS 22163:2017. In addition, TC is classified according to DIN 6701 in class A1 and DIN 2304 in class S1 for gluing.



Development, production and installation – TC is the system supplier for high-quality GRP-based components. Used in transportation and industry.

**Competence in bonding**

Established in 1994 in Haselünne, the TC company can be described as one of Germany’s leading specialists for sophisticated GRP-based components. More than 40 qualified employees work in development, production and assembly at the company’s new headquarters in Meppen. We have continually expanded our expertise in

the field of bonding technology over the years. In this area, we ensure quality through the use of trained European Adhesive Engineers (EAE/Klebfachingenieur DVS-EWF 3309), European Adhesive Specialists (EAS/Klebfachkraft DVS-EWF3301) and European Adhesive Bonders (EAB/ Klebpraktiker DVS-EWF 3305).

Customised products and special solutions based on GRP are what TC stands for. High-quality GRP profiles are combined with aluminium or stainless steel components and with components made from other plastics for applications in the transport sector.



Certified for bonding work in Class A1 **DIN 6701** & Class S1 **DIN 2304**

Certified in accordance with **DIN EN ISO 9001:2015** & **ISO/TS 22163:2017**



# Proven solutions for traffic and transport

GRP components by TC have been used for rail vehicles, buses and trucks since 1998, and now also in sports cars. Our products are impressive due to high-quality surfaces, impact strength, low weight, good fire protection properties and high mechanical strength.



## Roof panel for trams

TC has supplied GRP roof panels for various trams. Composite materials are highly valued in the transport sector mainly due to their low weight. Nowadays, experts can hardly determine whether a painted component of a rail vehicle has been manufactured from a GRP profile or an aluminium profile. TC supplies high-quality prefabricated GRP components and is also happy to supply them with completely painted surfaces and attachments.



## Curved panels and side walls for buses and coaches

We produce high-quality, painted trim panels for various city buses and coaches. In this area, we have experience with component lengths of up to 13 metres.

We work for

**BOMBARDIER**  
the evolution of mobility

**EvoBus**





## Ceiling flaps in a city bus

In the MAN bus Lion's City, the ceiling panels are made of GRP components. Pay attention to the ceiling panels on your next bus trip in the city or at the airport. Do they have a significant curved shape? If so, the parts are from TC. They were manufactured entirely in-house on modern processing machines.



## Ceiling systems for high-end interiors

TC produces fully painted middle ceilings, side ceilings, curved panels and ventilation ducts as well as various three-dimensional cladding parts for the interior cladding of innovative and modular train systems: lightweight, highquality, visually appealing. As a system supplier, TC supplies 3D parts made of polycarbonate, which are required for the ventilation duct, as well as fully assembled aluminium support systems on which the GRP panel parts are mounted. Do you need integrated and ready-to-install systems? Then contact us!

**NEOPLAN**

**SIEMENS**





## Customized solutions.

Need customized and lightweight components for use in the transport sector? Looking for a system supplier who will take care of everything from engineering to installation? Then please get in touch with us! Our experienced team will be happy to work out practical solutions for challenging applications.

**Techno-Composites Domine GmbH**

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