

# CASE STUDY



The better solution.



## Door supports for the ICE 4

The ICE 4, which was jointly developed by Siemens and Bombardier, is fitted with GRP door supports from TC. The door supports are installed immediately above the sliding doors. The 14 different types of door support are based on a GRP pultruded profile. The door support is a highly complex component which TC has once again been about to demonstrate its performance as a systems supplier. It consists of different aluminium profiles, brackets for the power supply and emergency brake, and infrared sensors. In addition, many door supports are fitted with a lockable flap and toilet 'occupied' displays. All of the adhesive bonds on the door support meet the requirements of DIN 6701. The entire door support is painted in two colours.



GRP-based design solutions for commercial and railway vehicles

## Your systems supplier for the transport sector.

Composite materials are particularly popular in the transport sector due to their special technical and physical properties. TC has been working with renowned European manufacturers of railway vehicles, buses and lorries for many years. We use glass fibre-reinforced plastic (GRP) profiles to develop custom products that meet the most stringent requirements in terms of quality, safety and cost-effectiveness.

### Composite materials in the transport sector:

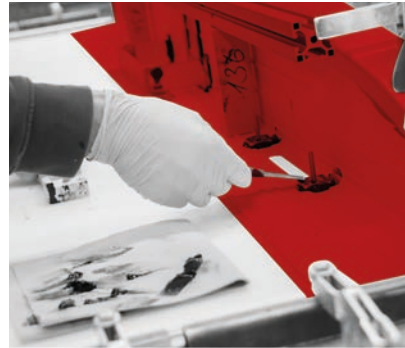
- Lightweight for minimal energy consumption
- Freedom in design for customised shapes
- High strength and rigidity, high breakage resistance
- Assessable fire protection properties
- High-quality, paintable surfaces
- Universal for radio waves

**IRIS**<sup>TM</sup>  
Certification

Certified for bonding in accordance with

**DIN 6701**

Class A1



### Bonding in accordance with DIN 6701 (Class A1)

We have been continuously expanding our expertise in the field of adhesive technology for years. A number of European Adhesive Engineers (EAE, DVS-EWF 3309), European Adhesive Specialists (EAS, DVS-EWF 3301) and European Adhesive Bonders (EAB, DVS-EWF 3305) have been trained in the process.

### Cutting-edge technology, vast expertise

When manufacturing pultruded profiles, the fire protection properties can be adapted to your requirements. We produce extremely high-quality surfaces that can then be painted for a textured or smooth finish. We machine the profiles with high precision using our modern 5-axis CNC machinery.

### Installation of components

Components such as motion sensors or battery packs are installed to your complete satisfaction as part of the final installation.

### Techno-Composites Domine GmbH

Dieselstraße 34 | 49716 Meppen | Germany

T +49 5931 99748-0 | [info@techno-composites.de](mailto:info@techno-composites.de)

**TECHNO-COMPOSITES.DE**