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Track & Infrastructure

*A pre-assembled composite bridge being lifted into place on-site by a crane*

# Complete Composite Systems (CCS)

Long-Lasting Composite Railway Bridges That, Due to Their Construction Properties, Require No Maintenance or Repair Over Time

Rather than go to the expense and difficulty of repairing or installing traditionally-made steel, stone or concrete bridges along a rail route, try a more durable and modern solution: composite bridges.

CCS, in association with specialist European partners, produces and installs composite bridges made from glass fibre reinforced polyester (GRP/FRP) for strong load-bearing performance and a high resistance to corrosion for long-term sustainability.

As well as being extremely robust, these bridges require no maintenance or repair during their long life.

The composite manufacturing process means these bridges are lighter in weight than traditional materials, so they can be lifted into place fully pre-assembled for a more straight-forward and time-saving installation.

As pioneers in the field of GRP bridge construction, our expertise and range of services extends from design and planning to manufacture in our own production facility, followed by professional installation on site by a specialist assembly team of experienced installers.

Due to their excellent properties, GRP applications are ideal for bridge construction, and our team has been involved in more than 250 successful bridge installations across Europe to date.

For railway applications, we can supply:

- Pedestrian, cycle or vehicular bridges at rail stations or anywhere along the route
- Beam or truss designs
- GRP-manufactured for sturdy reliability and long-term durability
- High resistance to corrosion, UV rays, and all weathers
- Flame-retardant and self-extinguishing
- Environmentally sustainable
- Lightweight – easy to handle on site for quick and cost-effective installation
- Available in any colour
- Tunnel linings, using GRP as a substitute for concrete, steel, and wood with great success
- GRP gratings, open or closed
- A wide range of GRP railing systems and self-closing doors in hazardous areas
- GRP entry and exit routes, staircases and transfer platforms with matching surfaces and railings



Composite bridge installed with additional railings

Buildings & Structures

For more information about reliable and maintenance-free composite bridges, contact our technical experts at CCS.



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Composite bridges installation

A composite rail bridge fitted with walkways on either side in the town of Durmersheim, Germany. See a range of composite bridges being installed in this presentation video which includes drone footage of an assembled bridge being lifted over a river into position for final installation.

# COMPOSITE BALLAST BOARDS

GRP-made retention solution for protecting railway lines from the likes of rockfall or snowslide



- Maintenance free & UV resistant — minimum lifespan 80 years
- Structurally sound, designed to resist and absorb impact
- Light: one fifth the weight of an equivalent concrete ballast board
- Eco-friendly: releases just a fifth of the CO2 emissions emitted from an equivalent concrete ballast board
- Interlocking design allows boards to be stacked to form a robust retaining wall capable of withstanding range of heavy forces
- Independently verified Life Cycle Assessment (LCA) carried out as part of official Environmental Product Declaration (EPD)



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