



**Mobility**

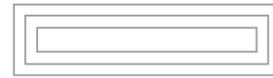
# Double decker trains

## Solutions

---

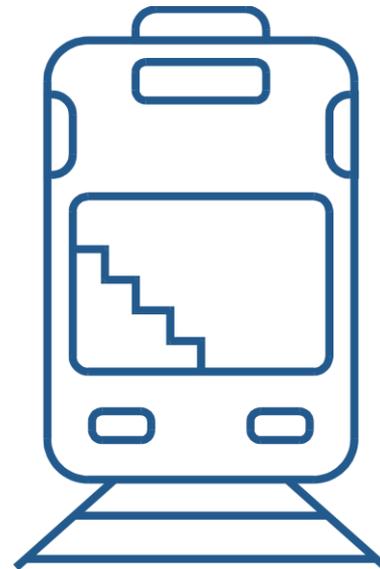
Lightweight and high-quality  
components for double-deck trains





# Solutions

We offer a broad and high quality product portfolio of components for double-deck trains. Benefit from IRIS (ISO/TS 22163) certified processes with high production capacity for the diversity of our various solutions. With our in-house engineering we provide amongst flexibility, many years of experience and industry knowledge to create new concepts, perform structural calculations and support quality checks on new standards.



## Front cab

We offer **INNOCAB® Advanced**, a self-supporting and **INNOCAB® Plus**, a non-self-supporting, GRP - sandwich cabin. Both are lightweight, ready-to-install front-end cabin units with tight tolerances and superior impact resistance.



## Floor

For high standard floor systems, we provide our long-proven heated floors **COMFLOOR® Advanced** and **COMFLOOR® Plus**. Latest developments include new unheated floors: the very stiff and acoustic optimized **COMFLOOR® Entry** and our very light **COMFLOOR® Basic**.



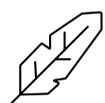
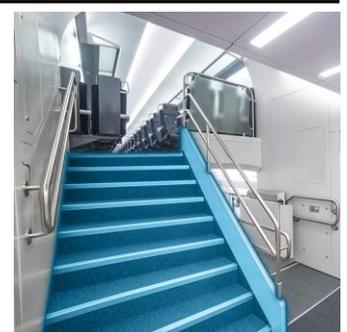
## Intermediate floor

For structural Intermediate floors, we offer our **XBODY® Interdeck**. It provides high stiffness, acoustic insulation and load capacity along with reduced weight.



## Staircase

Our new and innovative solution **INFIT® Lightstair** provides a light, cost-optimized and function-integrated stair system designed for ease of installation in any kind of train.



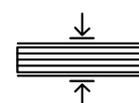
Lightweight construction



Cost saving



Sandwich technology



Optimized thickness



Fire protection

**XBODY®**



## Separation walls

Within our **INFIT® Separation Wall** segment, we provide separation walls with different sandwich constructions. The combination of low weight, acoustic insulation and customized function integration makes these walls the ideal choice for separating specific areas-from small cabins to entire compartments.



## Electrical box

For electrical components like batteries, transformers or compressors we provide our housing box: **eCASE**. With this lightweight and modular solution you gain the perfect opportunity to secure the critical parts



## Service & Repair

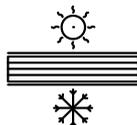
We repair GRP material and all kinds of laminate. Our service includes complex repair including e.g. cutting, grinding and painting. Our flexible offer permits maximum customer satisfaction in time and costs.



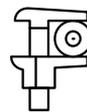
Precision



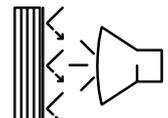
Water repellent



Thermal insulation



Tolerance



Acoustic insulation

**INFIT®**



## Driver desk

**INNODESK**- Our modular and structural driver's desk, made of a lightweight combination of materials, offers a multifunctional structure and thereby reduces secondary costs. This is achieved by eliminating the need for an additional metal support.



## Claddings

**INFIT® Cladding**- We offer a wide range of claddings, including roof and under-floor claddings as well as flaps. Furthermore, we offer claddings for driver cabs, entrances, staircases, passenger compartments and enclosures for control cabinets.



## Spare parts

For spare parts our service includes for example re-builds, modifications and adaptations. These parts with customized finishing options can be included in the quantity from the beginning or can be subsequently produced again in (small) series.





# **Mobility**

3A Composites Mobility AG  
Park Altenrhein  
CH-9423 Altenrhein  
Switzerland  
+41 71 858 48 48

3A Composites Mobility S.A.  
Inwestorów 6  
39-300 Mielec  
Poland  
+48 17 773 78 00

[www.3acompositescmobility.com](http://www.3acompositescmobility.com)