

# Fibre Composites for Rolling Stock Interiors

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## SPECIAL NEWSLETTER 2016

### Compotech AG – The Company

Compotech AG is a leading company in developing and manufacturing interior components and systems made of fibre-reinforced plastics (FRP).

A well-staffed engineering group supports and advises customers from the design stage right through to serie production.

In order to offer unique opportunities Compotech AG produces tailored solutions with the available technologies.

Fulfilling the strict norms of flame resistance, smoke emission and toxicity, Compotech AG contributes to the highest safety-grades for the railway owners.

That's why Compotech AG is a reliable and innovative SWISS partner to the international railway-industry.



*"Compotech AG supplies tailored solutions for rolling stock interiors"*

### Product Range

- Wall- and Ceiling- Panel Systems
- Window Frames
- Complete Housings
- End Linings
- Seat-Shells
- Door Pillars
- Door Covers
- Rack- and Cabin-Systems
- Structural Parts



### Customers

- AnsaldoBreda
- Deutsche Bahn (DB)
- Siemens AG
- Bombardier Transportation
- Schweizerische Bundesbahn (SBB)
- Stadler AG

### Reference Projects

- ICE-3 / ICT
- S-Bahn Zürich
- THAMESLINK
- DOSTO – SBB
- FLIRT
- Desiro ML ÖBB
- DML AM08 Brüssel
- SWT



## Advantages of FRP-Components

Composite materials are mostly used if conventional materials have reached their performance limits. For instance in terms of

- weight
- quality
- design freedom
- corrosion
- economy
- insulation

## Fire Safety Requirements

FRP (fibre-reinforced plastic) fulfils strict norms of flame resistance, smoke emission and toxicity, for instance

- DIN 5510-2: 2009-05
- BS 6852, 1b
- NF F 16-101
- EN 45545-2
- UNI CEI 11170

## Core Technologies

The manufacturing skills are in moulding and colouring, as well as assembling. SMC-presses deliver clamping forces up to 2'000 tonnes for manufacturing moulded components up to 3 x 2.5 metres in size.

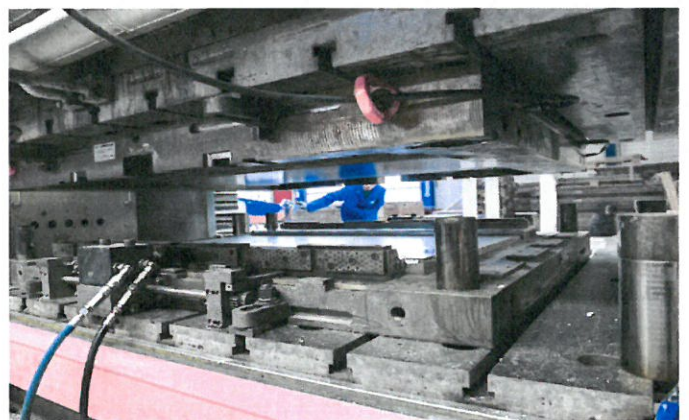
Furthermore these moulded parts are processed to suit customers' specifications on the latest high-performance machining systems.

Compotech AG has also paint finishing systems with the latest equipment available for applying colours in the best possible quality (gloss, matt or textured finish).

The moulded parts are put together in the assembly shop to create functional units. Assembling takes place mechanically and all bonding is professionally carried out (DIN 6701-A2).



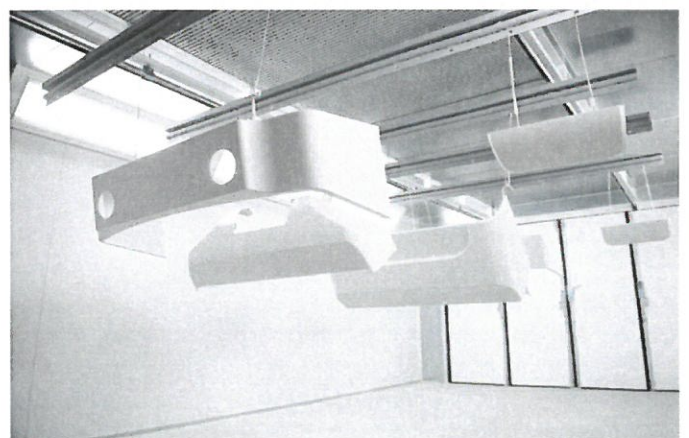
Press Hall



Tooling



Machining



Painting

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