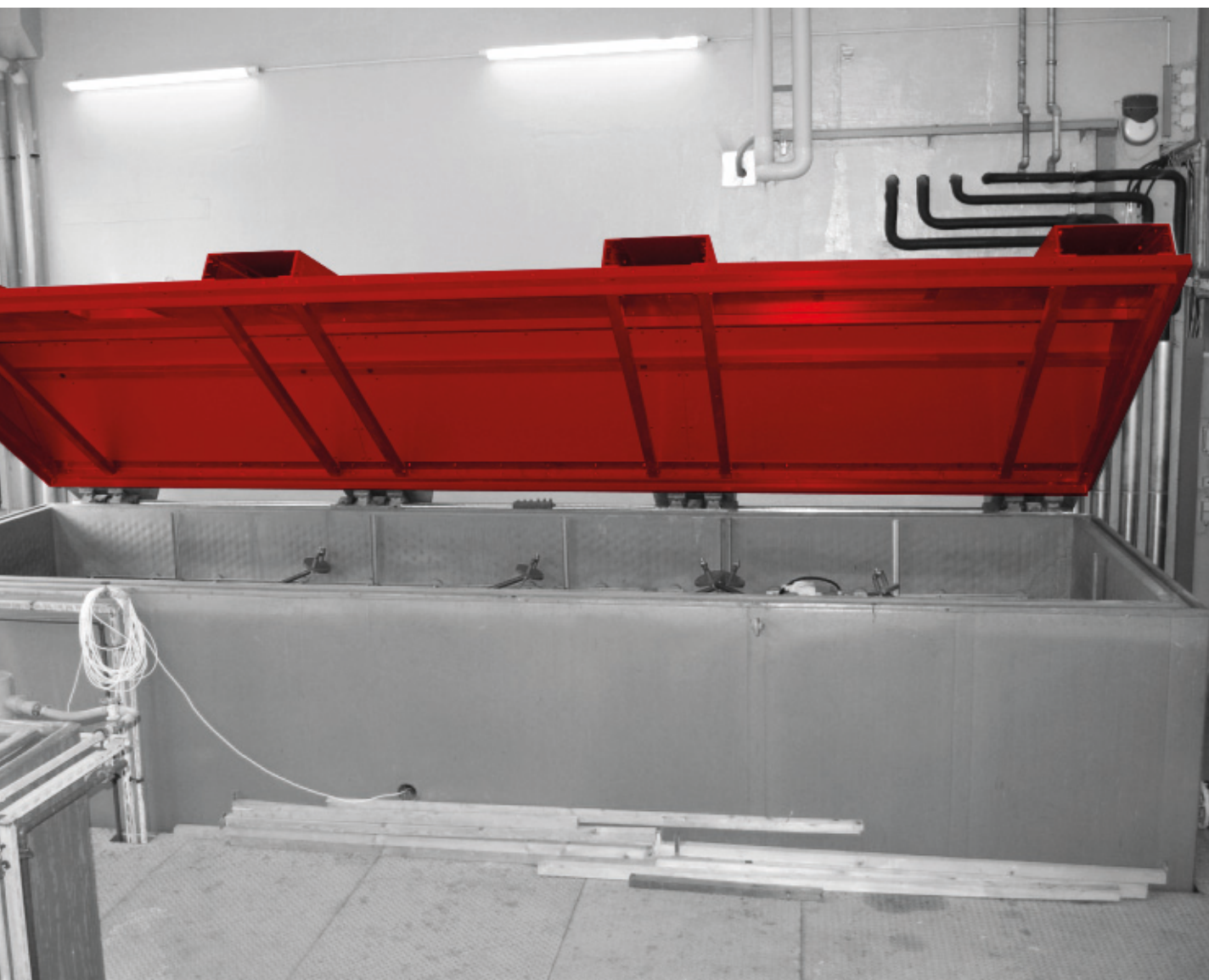


CASE STUDY



The better solution.



Cover for a salt spray test facility

The original plexiglass cover of this salt spray test system needed to be replaced by a new, much sturdier cover. This was designed and manufactured by TC on the basis of GRP profiles and GRP sheet material.



GRP-based design solutions for
the chemical industry



Cover open

A stable and relatively lightweight design made of standard GRP profiles and GRP sheet material.



Cover closed



Detail of the load-bearing structure

If you look at the cross-section, you can see a framework structure.



Connection to the actuator

One particular challenge was connecting the cover to the existing actuator in order to transfer the loads cleanly.



Details of the connections

The high quality and durability of the connections is apparent here. Corner connections are established using GRP cores that are not visibly glued into the GRP hollow profiles.



Detail of the immersion seal

The GRP angle profile is immersed in the water-filled channel of the tank. This creates a tight seal for the system.

Where other materials meet their match.

Solutions based on fibre composite materials have been successfully used in the chemical industry, plant engineering and various other sectors for many decades. Fibre composite materials are much lighter than metals and do not rust. They are weather-resistant and do not conduct electricity. In addition, they are resistant to many chemicals.

GRP in the chemical industry:

- Resistant in corrosive environments
- Can be machined and installed without flying sparks
- Weather-resistant
- Low thermal conductivity
- Electrically insulating
- Very strong but lightweight
- Economical to transport and handle
- Easy to adjust on site



Customised solutions

Do you need a customised solution? Then you've come to the right place. Whether you need a special design for the chemical industry or series production, let's think through the task together.

Verifiable structural analysis

We have already conducted structural analysis of many of our designs. If you have a special requirement, we will be happy to also provide structural analysis for your design, calculated by an independent structural engineering firm.

Delivery and assembly on site

In addition to delivery, our experienced assembly team can also perform installation on site.

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