





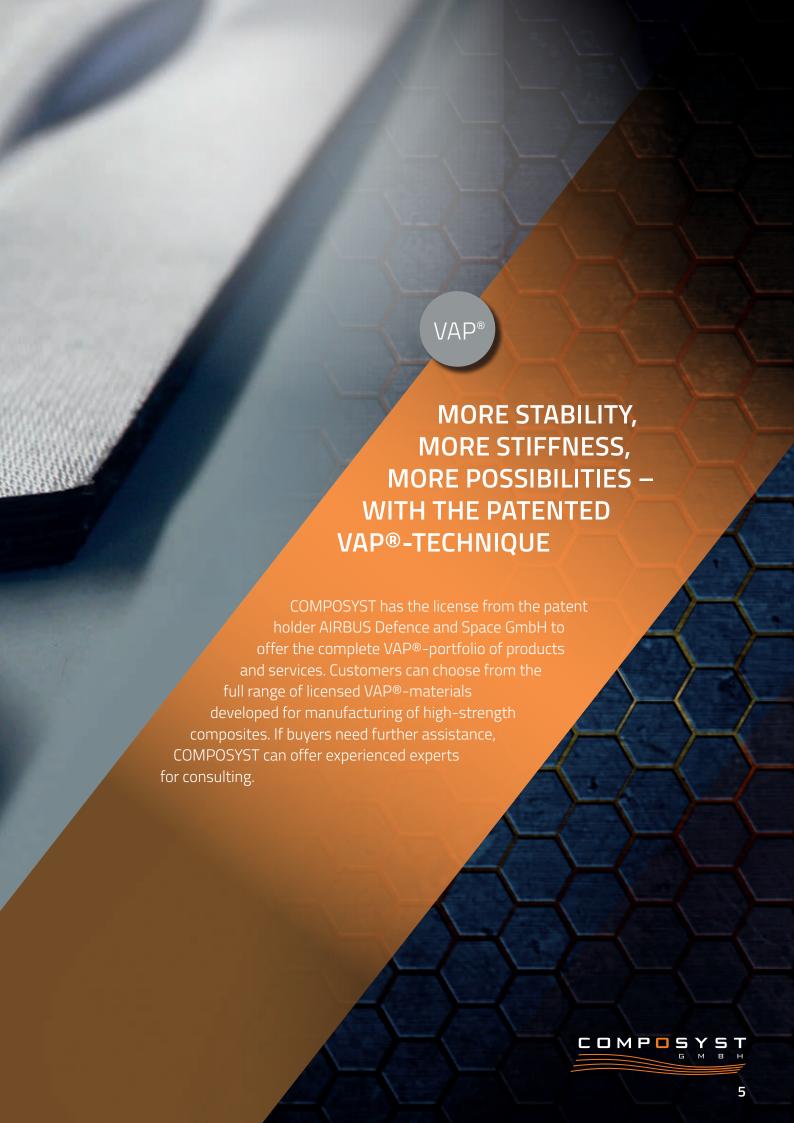








THE EASE WITH WHICH
WE CREATE COMPOSITE
STRUCTURES WITH PERFECT
MECHANICAL PROPERTIES.





### VAP® – VACUUM ASSISTED PROCESS

COMPOSYST

AIRBUS-authorised
LICENSOR

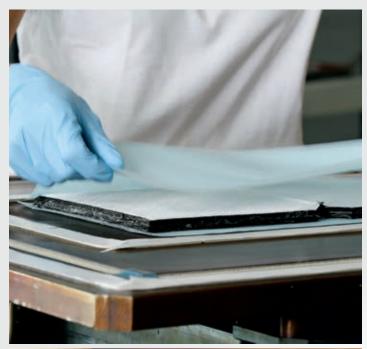
The AIRBUS Defence and Space GmbH (formerly EADS) patented Vacuum Assisted Process (VAP®) uses the properties of modern, semi-permeable membrane systems in highly developed textile composites to apply the effect of a vacuum to the entire surface of a component. This "vacuum assist" ensures that trapped air and gas can be reliably and efficiently removed during resin infusion.

#### VAP® - Functional Principle

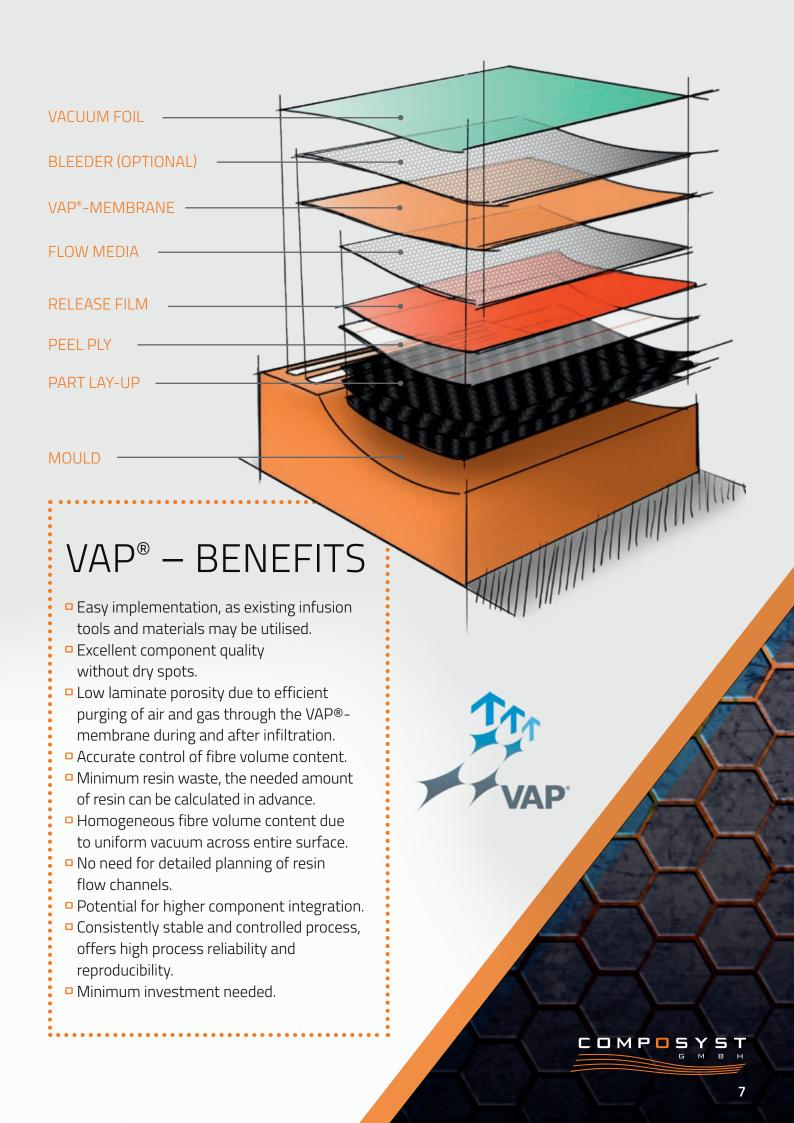
The Vacuum Assisted Process (VAP®) is a technique to manufacture composite parts using vacuum injection; it applies membrane-assisted low-pressure infiltration.

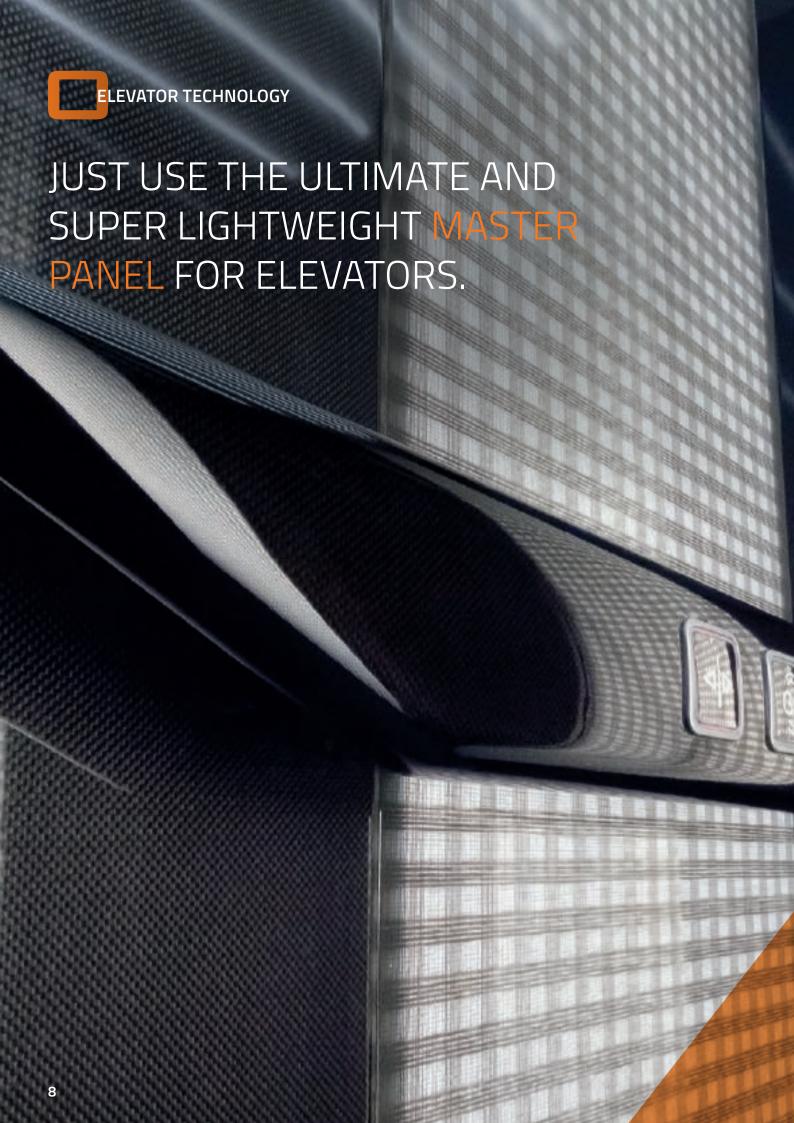
The surface of the part to be infiltrated with resin is covered with a flexible membrane system. The membrane is permeable to gas but impermeable to resin. When resin is infiltrated into the part inside the membrane, the latter keeps the resin inside the matrix and away from the vacuum duct.

Yet, aided by the low pressure in the vacuum duct, trapped air and gas can still escape through the membrane's micro-permeability and are purged via the textile layer. The vacuum acts uniformly, so purging takes place across the entire contact surface between part and membrane, during and after infiltration.















## JUST DESIGN!

# COMBINE WHATEVER YOU WANT. IT FITS!









### SIZE MATTERS:

The COMPOSYST MASTER PANEL can be combined with any other material. It can replace used steel panels while reducing the weight to a quarter.

Equipped as standard with 18 mounting holes for an easy assembly.

Measures of our MASTER PANEL: 56,0 x 239,5 x 2,6 cm The width can be costumized!

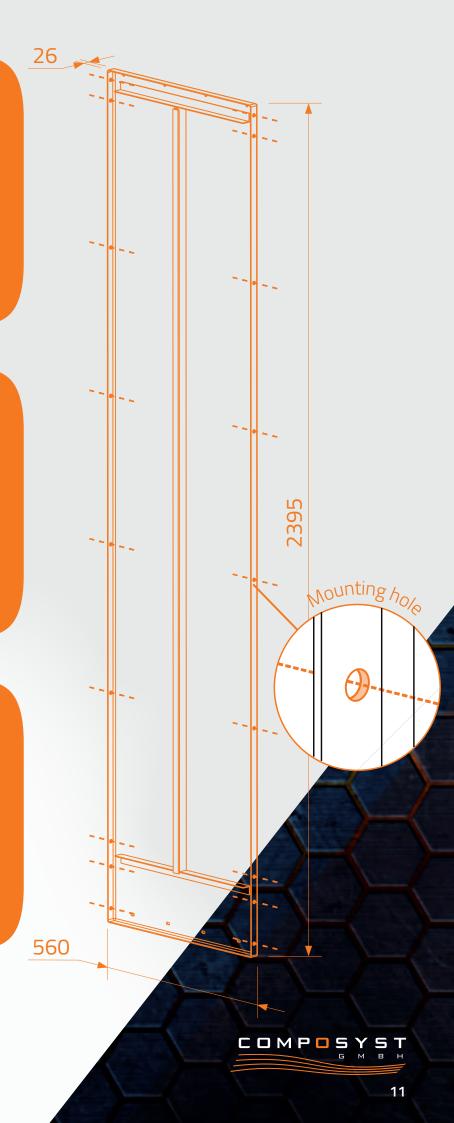
# UNLIMITED DESIGN OPTIONS:

- Your individual texture
- Your colour code
- Your corporate design
- Your logo or content

# JUST PLACE YOUR LOGO HERE

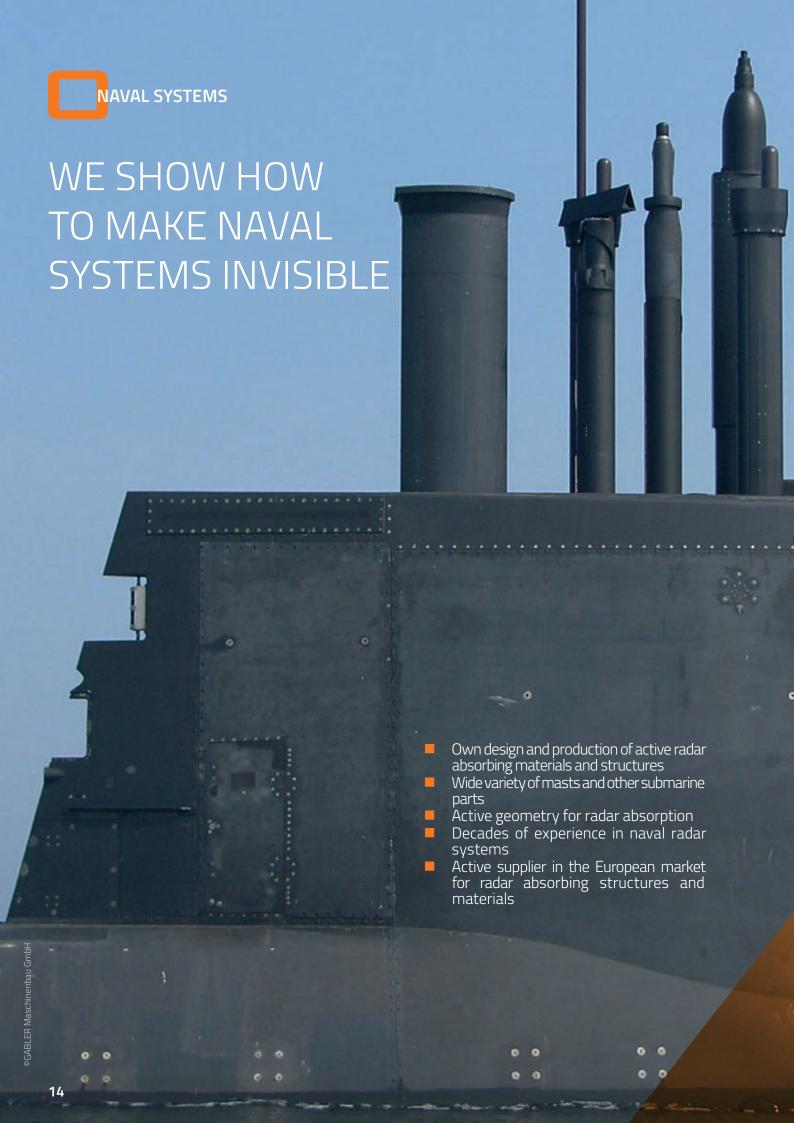
## MORE OPTIONS WANTED?

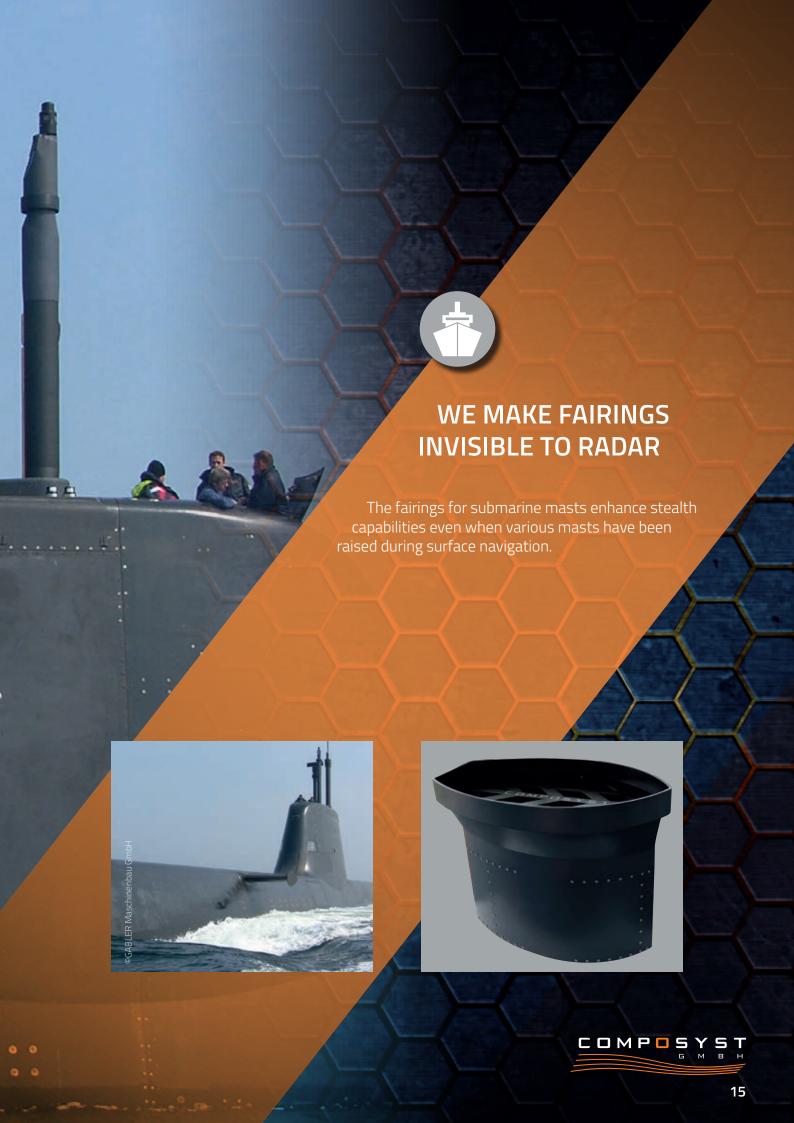
- Add a seat
- Make it sound best results with our wood veneers
- ☐ Realise this with the lowest weight possible









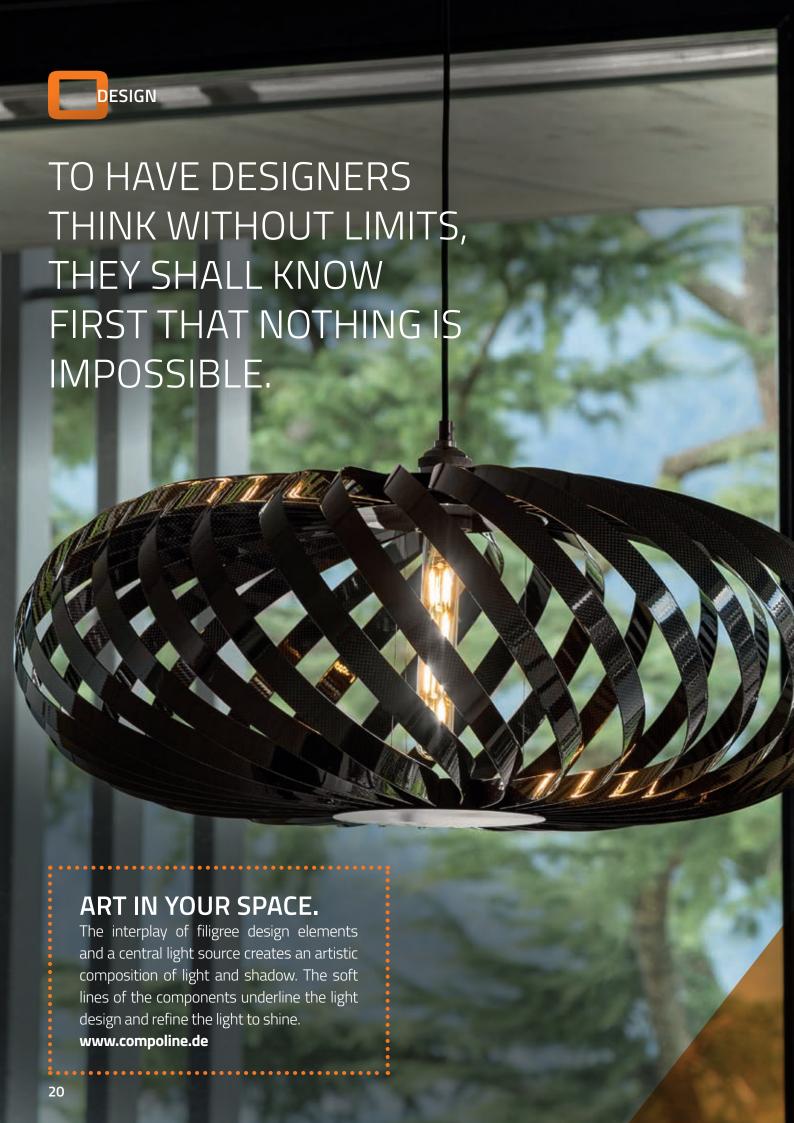
















# FROM CONSULTING TO THE FINISHED PRODUCT



Whether customers are looking for some auxiliary supplies or one specific tailor-made part — COMPOSYST's extensive product portfolio will provide the perfect solution. The offered materials are perfectly in line with the processes used by different customers. The interplay of carefully chosen materials and the product development process determines subsequent part quality and increases overall production efficiency. That way, modern composite technologies are at their most impressive, realising their full potential.

At COMPOSYST, customer service comes first. Customer needs and requirements regarding material and product design are analysed thoroughly to find the optimum solution, always considering innovative technologies.

The latest product information and technical data sheets are available under Downloads.

www.composyst.com

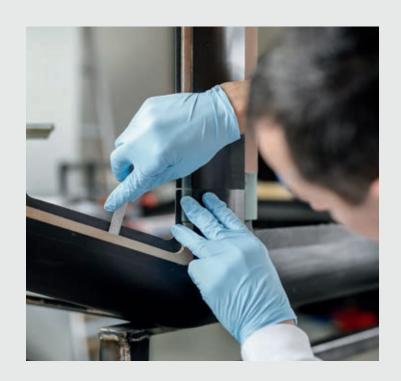


### SALES / SUPPORT / SERVICES

### **SUPPORT**

One COMPOSYST core competence is the provision and development of customer-specific manufacturing technologies. It is the goal to grow existing capabilities of customers and to help them win new markets.

This approach relies on extensive corporate expertise from the different disciplines of aerospace, wind energy and marine engineering. Whenever possible, new and innovative developments in materials and processes are incorporated.



#### (TECHNICAL) CONSULTING

- Design Engineering Support
- Concept Development
- Cost Calculation
- Manufacturing Support

- Project Management
- Prototyping
- Small Batch Manufacturing
- Production Engineering

### SALES AND DISTRIBUTION

- □ VAP®-membranes for Different Resin Systems
- Supplies for Vacuum Infusion
- Industrial Textiles (Spiral, Textiles, Curve Textiles, Gussets ...)
- □ Preform Profiles (T, LZ, I, C Built to Customer Specifications)

#### TOOLMAKING

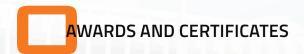
Tools for Infusion Technology

- Development Engineering
- Design
- Project Management
- Production Engineering

#### **TRAINING**

- Plastics Technology Fundamentals
- Introduction to Vacuum Infusion
- Customer-Specific Training





# WE ARE AWARD-WINNING!













Uwe Tiltmann

Managing Partner Composyst GmbH

Our business has flourished steadily over the last couple of years. With our team of subject matter experts, we have quickly earned a good reputation, be it as consultants, developers, designers, planners or fabricators. We think outside the box and will



Stefan Utecht

Managing Partner Composyst GmbH

continue to do so in the future. This character trait will help us to implement bold ideas and turn vision into reality. That is how it was in the past, how it is in the present, and how it will be in the future.



