

Always at the core of your solution



YOUR PARTNER IN SANDWICH CORE SOLUTIONS



diabgroup.com

MAKING YOUR PRODUCTS MORE COMPETITIVE AND SUSTAINABLE



With the broadest range of structural core materials and buoyancy foams, decades of experience and a global presence, we are dedicated to making your products more competitive and sustainable.

TAKE ADVANTAGE OF OUR KNOWLEDGE

We help you make your products and your manufacturing process more competitive and sustainable by offering industry-leading competence together with the broadest range of stronger and lighter structural core materials and buoyancy foams.

You can safely put your trust in our vast knowledge and support as your reliable partner. With more than 75 years of knowledge, a global presence for local needs and an optimal supply chain, we are your trusted and committed partner from start to finish.

A SOLUTION FOR EVERY APPLICATION

Our products and solutions are used in a wide range of industries and are certified according to relevant standards. High-performance core materials from Diab support applications around the world, across segments such as marine, subsea, aerospace, defence, wind energy and industry. Trusted in demanding environments, they combine lightweight performance with long-term durability and reliability.

And with our global manufacturing, sales, technical support and engineering presence, we can assure you of security of supply, cost-effectiveness and local support for many years to come.

Offering industry-leading competence together with stronger, lighter and smarter materials, we are always at the core of your solution.

SUSTAINABILITY IS AT OUR CORE

Today, sustainability is not an option. It is mandatory. And at Diab, we work hard to make a difference on the significant issues that matter to us all. We are firmly committed to making your solution more sustainable in every way. With our structural core materials, you can boost energy efficiency, reduce emissions, conserve natural resources, and create a longer lifecycle for your product.

We have also made sustainability one of our top business priorities. For instance, we are the world's first composite materials company to set science-based targets approved by the SBTi (Science-Based Targets initiative), which have been renewed for a new five-year period. That means we have a documented plan for reducing the carbon footprint in line with what is defined in the Paris Agreement to keep global warming below 1.5°C.

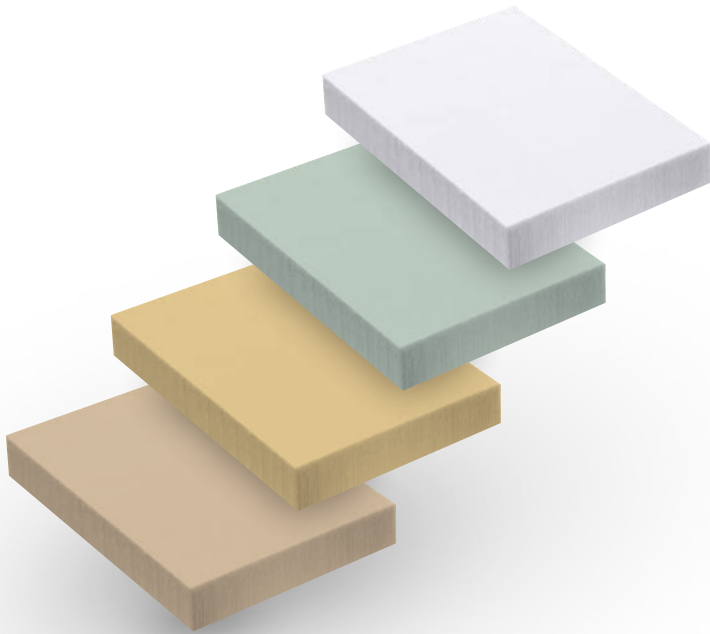
In addition, we have been awarded a gold medal by EcoVadis, one of the world's foremost sustainability rating standards. This prestigious recognition places us among the top 5% of companies evaluated globally by EcoVadis, highlighting our comprehensive commitment to sustainability across environmental, social, and governance dimensions.

FOSSIL-FREE PVC

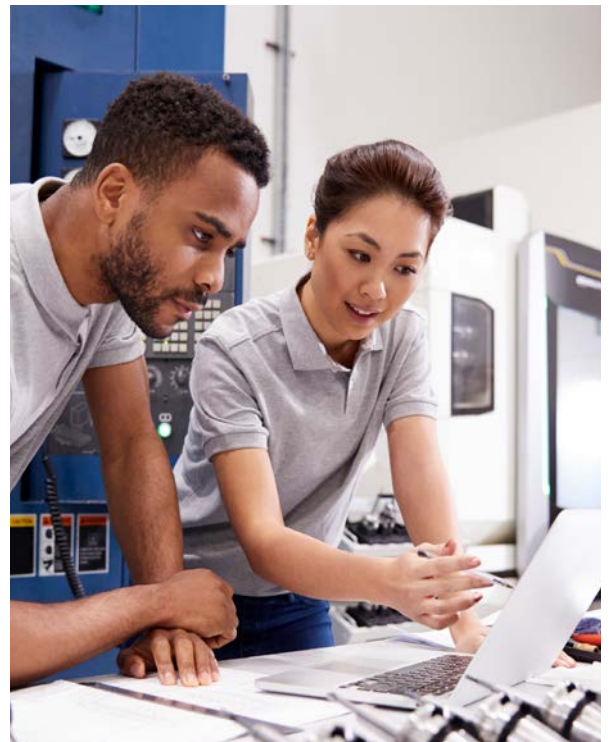
As proof of our commitment, we have started to use fossil-free plastics in the PVC foam cores. Our manufacturing site in Laholm, Sweden, has obtained ISCC PLUS certification, which means we can offer mass balanced PVC in our Advanced kits. Mass balanced material, with circular and/or biobased feedstock. The ISCC PLUS certification guarantees full traceability throughout the mass balanced material supply chain to the finished kit at our processing unit, including a sustainability declaration upon delivery.

WHATEVER
CHALLENGE,
WE HAVE THE
RIGHT CORE
MATERIAL





Our excellent track record proves the quality and reliability of our materials and solutions, providing security and proof of performance that few others can offer. And as long-time experts in a wide array of structural core materials, we offer you a high service level and help make your manufacturing process more effective and sustainable. With our in-depth knowledge of construction and a broad range of different core materials, we are ready to stand by you in every challenge you face.





Marine

The key to success in the marine industry is maximising performance while minimising weight, cost, and environmental impact. Our high-performance, structural core materials provide the highest strength-to-weight ratios for all marine applications, enabling higher speeds, longer ranges, greater payload capacities, and reduced power demands. Their excellent fatigue and slamming properties also make them suitable for special crafts that operate in high-sea conditions. With the help of our technical expertise, structural engineering services, application training, and fossil-free Advanced kits that maximise weight savings and reduce carbon footprint, you can achieve maximum performance and cost efficiency.



Subsea

In subsea environments where pressure, corrosion, and long-term exposure are constant challenges, our closed-cell PVC foams and syntactic buoyancy solutions ensure reliable performance from sea level to the seabed. Our foam core materials offer low density with high uplift capacity, impact resistance, and long-term creep performance, whether used in modules for ROV's and AUV's, in submarines and diving bells, or offshore energy systems. Designed for both shallow and deep-water applications, our solutions are backed by decades of experience and tailored engineering support, making us a trusted global partner in subsea operations.



Aerospace

One of the crucial challenges in aircraft design is to create a structure that is as light as possible without compromising strength and safety. Aerospace quality requirements leave no room for error, making the task even more difficult. Our certified and approved high-performance structural core materials offer high strength-to-weight ratios, good insulation capacities, and a low environmental impact for all aerospace applications, along with a more efficient manufacturing process that reduces costs for your parts production. That allows you to reduce weight and fuel consumption while increasing range and/or payload. We offer several high-quality product lines for aerospace applications, structural cores for drones or private aircraft, as well as thermoplastic cores for seating and interiors.



Defence

In defence applications, performance, reliability and protection are critical. Systems must operate in demanding environments where lightweight construction, durability and operational readiness are essential. Our advanced structural core materials and buoyancy solutions support a wide range of defence applications, from naval and subsea systems to aerospace, unmanned platforms, radomes, antennas and protective structures. Combining high strength-to-weight ratios, excellent durability, thermal insulation, and radar transparency, they help reduce weight while maintaining structural integrity and mission performance. Backed by decades of experience and dedicated engineering expertise, we help customers develop lighter, stronger, and more resilient defence systems.



Wind energy

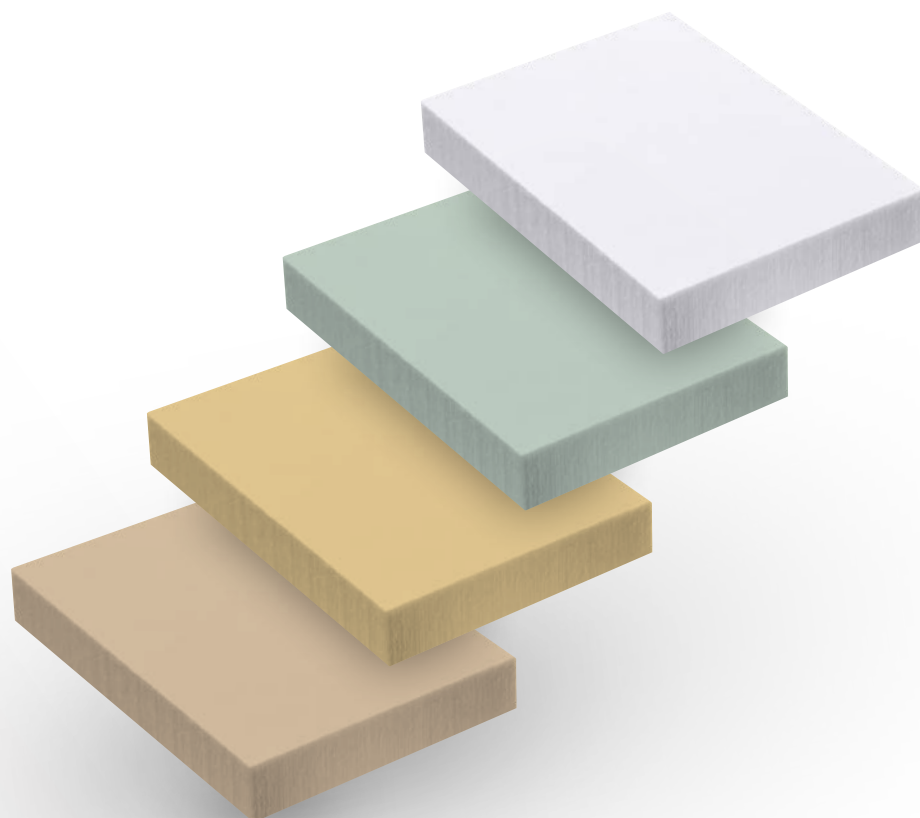
Using advanced composite materials, you can reduce the LCoE (Levelised Cost of Energy), increase the reliability of wind turbines, and keep them working efficiently for 25 years or more. Our high-performance PVC and PET core materials will confer exceptional stiffness, strength, and fatigue resistance to components while reducing their weight. We are a reliable, independent partner with a secure global supply chain and adherence to the APQP4Wind Manual, offering a set of core materials, finishings, and type kits specifically tailored to each application.



Other industries

Industrial applications demand materials that combine lightweight performance, efficiency and reliability. Whether the goal is to increase payload capacity, improve energy efficiency or extend product lifespan, the right material choice can make a significant difference. Our structural core materials support a wide range of applications, including automotive, building and construction, storage and containment systems, radomes and antennas, medical equipment, and other specialised structures. Combining high strength-to-weight ratios, thermal insulation and design flexibility, they enable lighter, stronger and more sustainable solutions. Backed by decades of experience, we help customers meet demanding performance requirements across diverse industries.





THE RIGHT CORE MATERIAL FOR YOUR NEEDS

Every application and manufacturing method has a special demand for the material used. To get the most out of your product, Diab offers the widest range of core materials and grades with unique properties that will suit the needs of applications. Whatever your challenge, we have the right material for your sandwich structure or subsea buoyancy application.



OUR PRODUCT RANGE

PVC foam

The Diab structural PVC foam core materials have exceptional strength to weight properties, are durable and with very good insulation properties. They have dedicated unique features for multiple industries, available in a wide density range suitable for different manufacturing processes, such as closed moulding, including RTM and infusion and some grades for elevated temperature processing with prepreg.

- **Divinycell H**
- **Divinycell HM**
- **Divinycell HP**
- **Divinycell HT**
- **Divinycell HCP**

PES foam

A PES foam core material specifically developed for commercial aircraft interiors, seating, and food trays. The PES foam core material has excellent Fire, Smoke, and Toxicity (FST) properties and high-temperature processing capabilities. It improves lifetime cost while decreasing environmental impact and meets the US and European regulatory requirements for commercial aircraft interiors and is available in a wide density range.

- **Divinycell F**

PET foam

The thermoplastic and recyclable PET foam cores are available in a wide range of densities and can be processed with the most common manufacturing methods, including closed moulding such as RTM and infusion, and at elevated temperature processing.

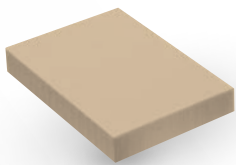
- **Divinycell PR**
- **Divinycell PL**
- **Divinycell PA**

PEI foam

A PEI core material developed explicitly for radomes and antennas, due to excellent transmittance properties in composition and cell structure. The PEI foam core material is compatible with most aerospace and defence composite manufacturing processes at high temperatures.

- **Divinycell U**

Processing with prepreg or operating at high temperatures, **contact Tech Services for advice before use.**



Divinycell H

Excellent mechanical properties at low weight

Divinycell H combines excellent mechanical properties with low weight, making it one of the most widely used structural core materials. Its PVC chemical structure delivers unique features and durability across a broad range of applications. With a proven track record in marine, land transportation, defence, wind energy, infrastructure, and industrial markets, Divinycell H is the benchmark PVC foam core for structural sandwich composites and buoyancy applications.

Density range: 45, 60, 80, 100, 130, 160, 200, 250

Key features

Lightweight strength – excellent strength-to-weight ratio for demanding structural applications.

Durability under load – ideal for applications subject to fatigue, slamming, or impact loads.

Consistent quality – proven long-term performance across industries.

Versatile compatibility – works with virtually all commonly used resin systems and manufacturing methods.

Efficient processing – ideal for infusion processing, very low resin uptake enables weight and cost savings.

Functional performance – easy to machine, very good adhesion and peel strength, excellent chemical resistance, low water absorption, and thermal/acoustic insulation.

Typical application areas



Marine



Subsea



Aerospace



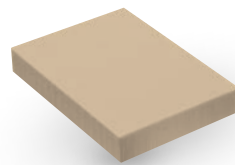
Defence



Wind energy



Other industries



Divinycell HM

Outstanding toughness and strength

Divinycell HM is a high-performance structural core specifically designed for fast marine hulls that demand higher toughness. It combines very high shear strength with exceptional shear elongation, making it an extremely durable core material capable of withstanding high dynamic impacts and slamming loads.

Density range: 80, 100, 130

Key features

Superior toughness – absorbs high dynamic impacts and slamming loads.

Lighter, stronger structures – elongation properties exceed ISO 12215, GL, and ABS requirements, allowing for reduced safety factors in structural calculations.

Damage resistance – high compressive strength provides excellent dent resistance and prevents skin wrinkling in thin skins.

Temperature stability – higher operating temperature minimises the risk of print-through on dark hulls.

Versatile compatibility – works with virtually all commonly used resin systems and manufacturing methods.

Efficient processing – ideal for infusion processing, very low resin uptake enables weight and cost savings.

Consistent quality – proven long-term performance across industries.

Functional performance – easy to machine, very good adhesion and peel strength, excellent chemical resistance, low water absorption, and thermal/acoustic insulation.

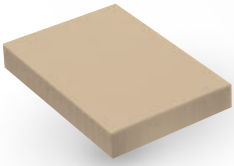
Typical application areas



Marine



Defence



Divinycell HP

Meets the demands in higher temperature processing

Divinycell HP has been developed for use in low and medium temperature prepreg systems. Its unique PVC chemical structure yields impressive mechanical performance at a low weight. Divinycell HP's elevated temperature performance also extends to its 'in service' life, as it will retain a high percentage of its mechanical properties despite exposure to higher ambient temperatures.

Density range: 45, 60, 80, 100, 130, 160, 200, 250

Key features

High mechanical performance at low weight – combines strength, stiffness, and ductility.

Excellent temperature resistance – maintains performance under both processing and in-service high temperatures.

Durability and toughness – superior damage tolerance, fracture toughness, and fatigue resistance.

Moisture and chemical resistance – low water absorption and strong chemical resistance ensure reliability in demanding environments.

Thermal and acoustic insulation – adds functional value in marine, transport, defence and varying industrial applications.

Processing efficiency – fast and easy to handle, with low resin uptake for cost-effective manufacturing.

Functional performance – easy to machine, very good adhesion and peel strength, excellent chemical resistance, low water absorption, and thermal/acoustic insulation.

Typical application areas



Marine



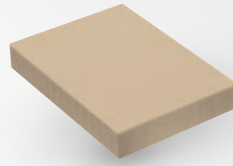
Defence



Wind energy



Other industries



Divinycell HT

High performance with comprehensive quality documentation

Divinycell HT is a structural core specifically developed for structural aerospace applications. It is available with comprehensive quality documentation and traceability, making it ideal for industries with stringent certification requirements. Suitable for prepreg processing (typically +120 °C), wet resin systems, and infusion, it delivers consistent performance under demanding conditions. The material is self-extinguishing according to FAR 25.853 and eliminates the need for edge potting, sweep, and sand.

Density range: 61, 81, 101, 131, 251

Key features

Certified for aerospace – full quality documentation and traceability.

High-temperature performance – reliable in prepreg and high-temp processes.

Fire safety compliance – self-extinguishes according to FAR 25.853.

Dimensional stability – maintains performance and geometry under load and temperature.

Durability – excellent toughness, fatigue resistance, and damage tolerance.

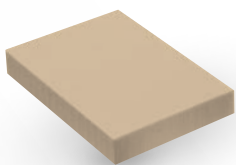
Processing efficiency – eliminates edge filling and potting and is easily machined.

Functional performance – chemical resistance, acoustic and thermal insulation, low resin uptake.

Typical application areas



Aerospace



Divinycell HCP

High-performance PVC for subsea applications

Divinycell HCP is a high-performance, low-density buoyancy foam designed specifically for subsea applications. With outstanding hydraulic compressive properties and a closed cell structure, it provides high uplift capacity, minimal buoyancy loss and water absorption even under long-term loading conditions. Widely used in submarines, buoyancy modules (or units) in ROV's, AUV's and other autonomous vehicles, diving bells, and impact protection structures, Divinycell HCP is the reliable choice for critical subsea operations.

Density range: 200, 250, 310, 380, 410

Key features

Certified for subsea – each block pressure tested and documented for traceability.

Reliable buoyancy – excellent hydraulic compressive strength ensures high uplift capacity and minimal buoyancy loss over time.

Durability in harsh environments – minimal water absorption under long-term subsea conditions.

Impact and damage resistance – superior toughness and tolerance to handling and service loads.

Thermal and chemical stability – strong resistance to chemicals and operating temperatures.

Design flexibility – thermoformable and easy to machine for complex subsea structures.

Safety and performance – proven in demanding subsea and offshore applications including defence.

Thermal and acoustic insulation – adds functional performance in demanding subsea environments.

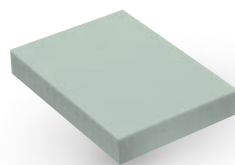
Typical application areas



Subsea



Defence



Divinycell PR

Post-consumer PET sandwich core

Divinycell PR is a recyclable sandwich core, based on post-consumer PET combined with post-industrial PET to enhance performance. Designed as a circular solution, it meets modern environmental demands while delivering reliable mechanical properties. With good compression and shear performance, high dimensional stability at elevated temperatures, and low resin uptake, Divinycell PR ensures strength, durability, and processing efficiency across a wide range of applications.

Density range: 80, 100, 150, 200, 250

Key features

Sustainable innovation – made from post-consumer PET plus post-industrial PET.

Circular and recyclable – developed to reduce environmental impact without compromising performance.

Reliable performance – strong compression and shear properties with high stability under heat and load.

Lightweight and efficient – low resin uptake minimises weight and cost.

Versatile processing – suitable for infusion, prepreg, and press bonding.

Design flexibility – thermoformable with consistent quality and low-density variation.

Durability – non-organic material with no rot, a durable wood replacement with good screw retention.

Versatile compatibility – works with virtually all commonly used resin systems and manufacturing methods.

Typical application areas



Marine



Wind energy



Other industries



Divinycell PL

High-performance recyclable PET sandwich core

Divinycell PL is a fully recyclable PET-based core material, developed to optimise PET-cored composite structures with high performance and sustainability. Made from post-industrial PET, it combines high shear strength with low resin absorption, reducing both component weight and overall cost – without the need for surface sealing treatment. With excellent shear strain and high temperature performance, Divinycell PL is compatible with a wide range of processing methods, including vacuum infusion, prepreg, and hot-press moulding. The high-strength Divinycell PL230 variant is particularly suited for demanding structural applications.

Density range: 100, 105, 150, 200, 230

Key features

Sustainable solution – fully recyclable and based on post-industry PET raw material.

Lightweight efficiency – low resin uptake lowers weight and cost.

High performance – superior shear strength, shear strain, and peel strength.

Durability – low water absorption and high impact resistance.

Temperature stability – allows for high processing and in-service temperatures.

Processing flexibility – suitable for infusion, prepreg, and hot-press moulding.

Design freedom – thermoformable and easy to machine.

Typical application areas



Marine



Wind energy



Other industries



Divinycell PA

Low-density core ideal for automotive and mobility interiors

Divinycell PA is a fully recyclable, cost-effective PET foam core developed for semi-structural sandwich composite applications in automotive, mobility, industrial, and construction markets. With high shear elongation and ductility, it is an excellent choice for thermoforming, compression moulding, and press bonding. As a welded PET foam, PA offers soft weld lines that deliver superior surface aesthetics – a key advantage for automotive interiors and other applications where visual finish matters.

Density range: 60

Key features

Recyclable solution – sustainable and fully recyclable PET foam.

Lightweight efficiency – low resin uptake and low-density variation for weight and cost savings.

Formability and ductility – high shear elongation makes it ideal for thermoforming and compression moulding.

Good finish – soft weld lines provide excellent surface quality for visible applications.

Thermal and chemical resistance – suitable for high processing temperatures and chemically demanding environments.

Versatile processing – compatible with most resins and suitable for a wide range of manufacturing methods.

Typical application areas



Other industries



Divinycell F

Perfect for commercial aircraft seating and cabin interiors

Divinycell F is a recyclable, prepreg-compatible sandwich core designed specifically for commercial aircraft interiors. Offering outstanding Fire, Smoke, and Toxicity (FST) performance, it fully meets US and European regulatory requirements for safety. In addition to its FST compliance, Divinycell F delivers strong mechanical properties, long fatigue life, and excellent processing characteristics. With compatibility across major aerospace manufacturing processes, it provides both performance and efficiency for demanding interior applications.

Density range: 40, 50, 90, 130

Key features

Certified for aerospace – meets US and European FST regulations for commercial aircraft interiors.

High-temperature capability – suitable for vacuum bag processing up to 220 °C and press processing up to 220 °C.

Durability – exceptional fatigue life and reliable heat aging at 180 °C.

Formability and ductility – high shear elongation makes it ideal for thermoforming and compression moulding.

Lightweight and strong – excellent strength-to-weight balance for structural interiors.

Processing versatility – compatible with most common aerospace composite processes.

Processing efficiency – excellent replacement for traditional solutions like honeycomb – saving weight and production cost.

Thermal and acoustic insulation – adds functional performance in demanding aerospace environments.

Sustainable – a zero-waste recyclable material, supporting circularity in aerospace composites.

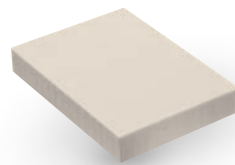
Typical application areas



Aerospace



Defence



Divinycell U

Excellent radar transmittance for aerospace applications

Divinycell U is a recyclable sandwich core, combining excellent Fire, Smoke, and Toxicity (FST) performance with strong mechanical properties and processing efficiency. Prepreg-compatible and thermoformable, it offers a high strength-to-weight ratio with low moisture absorption. It also provides excellent radar transmittance, meaning it does not interfere with radar signals – a critical property for aerospace and defence applications where uninterrupted signal transmission is required. With its acoustic and thermal insulation benefits, ease of processing, and reduced need for secondary operations, Divinycell U provides a versatile and sustainable solution for advanced composite structures.

Density range: 60, 80, 110

Key features

Certified safety – excellent FST performance with exceptional OSU heat release results.

Radar transparency – excellent radar transmittance ensures no interference with signal transmission.

Lightweight strength – high strength-to-weight ratio with low water absorption.

Processing efficiency – thermoformable (hot and cold), no need for edge filling.

Durability – excellent hot/wet performance.

Thermal and acoustic insulation – adds functional performance in demanding aerospace environments.

Sustainability – recyclable material supporting aerospace environmental goals.

Typical application areas



Aerospace



Defence



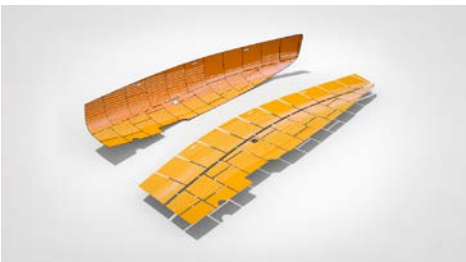
DIAB ENGINEERING SERVICES

Diab Engineering Services provides expert support from material selection to testing, helping you move seamlessly from idea to production. With guidance from our Composite Consulting Group (CCG), we enable lighter, stronger, and more sustainable composite solutions.



Proactive product and process support

We support you in selecting the most suitable core material for your application, offering a wide range of finishes tailored for form or flow. Our expertise includes analysing and identifying the optimal finishing for each manufacturing method, along with providing guidance on various manufacturing processes.



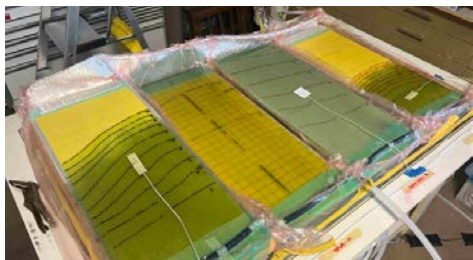
Innovative kit design and engineering

We offer in-house developed tools for optimised design and ensure a direct connection between our engineering department and yours. Our standard kits are designed to meet your needs for speed and efficiency, while our advanced kits deliver maximum weight savings, high performance, and even more reduced CO₂ emissions.



Industry-leading composite consulting services - CCG

Our world-class engineering expertise covers every step of the composite development process - from laminate design and structural engineering to detailed composite design including drawings. We offer advanced flow modelling for closed moulding, efficient tooling design, smooth prototype production, and flexible short production runs.



Hands-on training - CCG

We offer both theoretical and practical composite training focused on materials and processing, including specialised infusion training for start-ups or process improvements. Our long-term experienced team support you every step of the way.



Process support & optimization - CCG

We provide detailed analysis of various manufacturing processes, along with optimisation of process and factory flow to enhance efficiency and productivity.



Comprehensive testing

We support your development with comprehensive material and component testing, proof of concept evaluations, and detailed material characterisation. Field tests are also conducted to ensure real-world performance and reliability.

RESOURCES TO ENHANCE YOUR PRODUCT

Alongside the broadest range of core materials, we also offer you a comprehensive array of added value products, such as kits with pre-cut parts, sandwich part production, and surface finishing options for form and flow.

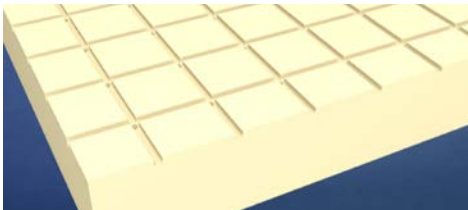


Choosing the optimal finishing for a competitive edge

Finishing refers to the controlled machining of structural core materials, where cuts, grooves, and perforations are introduced to adapt the core to different production requirements. These modifications make it possible for the core to follow complex curvatures and ensure proper air evacuation and resin flow in vacuum-assisted processes.

By selecting the right finishing method, manufacturers can achieve improved formability, higher laminate quality, and more consistent results. Each finishing type serves a specific purpose, whether to increase flexibility, reduce processing time, or optimise material performance in demanding applications.

Diab finishing options



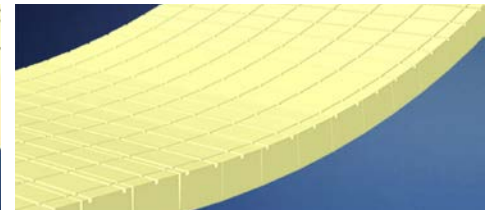
Flow

Finishing options to best utilise the foam for resin distribution in vacuum processing.



Form

Formable finishing options to create curved sheets, adopting to mould surface.



Flow & Form

When you need both curved sheets and distribution of resin.

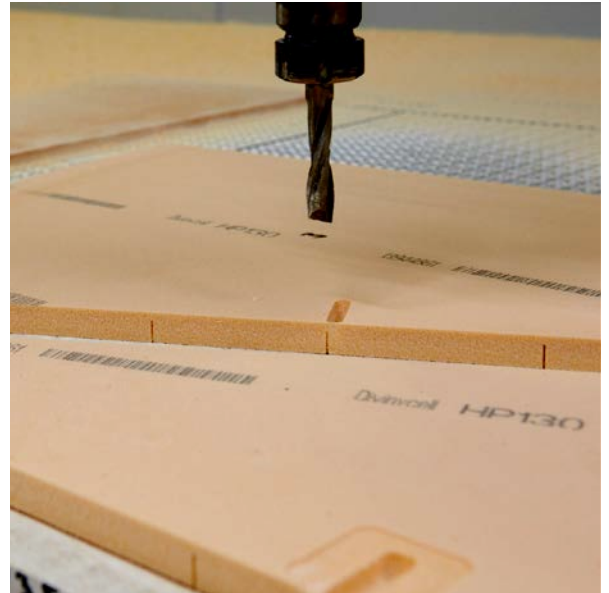


Kits to boost your performance

A kit consists of pre-cut parts that are shaped as necessary and then carefully numbered to fit exactly into their designated places in the mould. This structured approach ensures that every component is ready for immediate use without additional preparation. By eliminating the on-site shaping and cutting of sheets, you can significantly reduce build times, save both labour and material costs, and minimise waste generation.

In addition, the easy assembly and exact fit in the mould mean you can consistently achieve high and repeatable quality in less time, making the entire production process more efficient and predictable. Kits can include everything from simple flat sheets to complex and highly precise 3D shapes manufactured with CNC routing, depending on the complexity of the part.

The design of each kit is based on your specific requirements regarding component weight, cost efficiency, and quality level, as well as the chosen geometry and manufacturing process. This tailored approach ensures that the kit not only fits perfectly but also supports your overall production goals, enabling lighter, stronger, and more sustainable end products.



Advanced kits

Our innovative Advanced kits offer the lowest weight, an optimised fit in the mould, reduced resin consumption, improved handling performance, and improved cosmetics for infusion and prepreg applications. Through a CNC proprietary cut profile for each kit detail, the core is cut part way through its thickness, eliminating the need for a scrim backing, leaving a smooth surface and curvature on the mould side. When utilising ISCC PLUS-certified fossil-free PVC, it contributes even further to a smaller carbon footprint.



Standard kits

Pre-cut core panels using standard sheets and finishes.



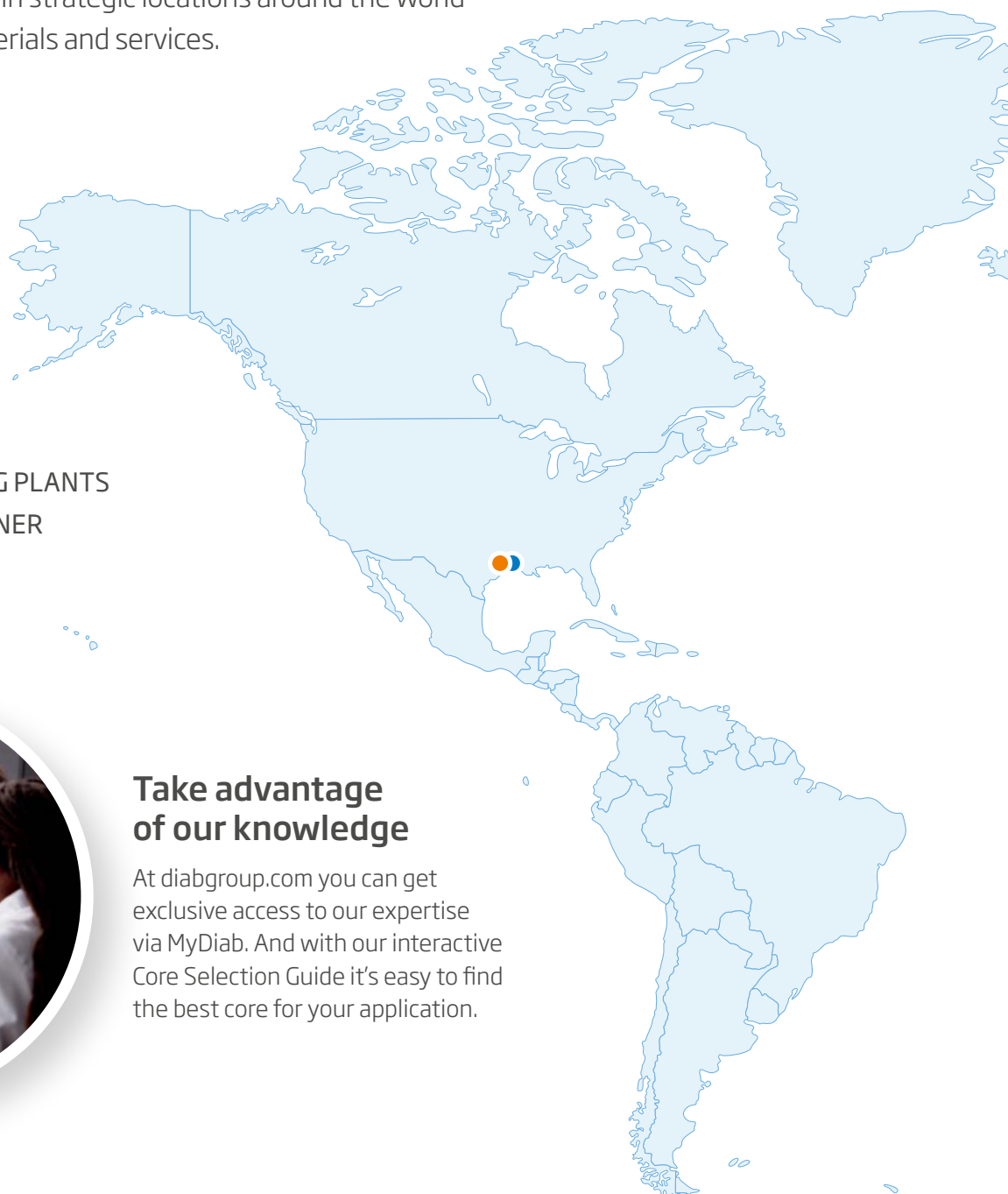
DIAB AT A GLANCE

Worldwide supply and support

Ensuring security of supply, cost efficiency, flexibility, and local support, Diab combines a global manufacturing, sales, and engineering presence with local know-how.

We follow our customers and anticipate their needs, positioning ourselves in locations to best support them. Our seven manufacturing sites and fourteen sales companies in strategic locations around the world offer our full range of materials and services.

- SALES UNITS
- DIAB'S MANUFACTURING PLANTS
- MANUFACTURING PARTNER
- HEAD OFFICE



Take advantage of our knowledge

At diabgroup.com you can get exclusive access to our expertise via MyDiab. And with our interactive Core Selection Guide it's easy to find the best core for your application.

700

COWORKERS

8

MANUFACTURING
SITES

14

SALES
COMPANIES

40

DISTRIBUTORS

**FOUNDED IN
SWEDEN 1950**

OUR FOCUS AREAS



Marine



Subsea



Aerospace



Defence



Wind energy



Other industries



SCIENCE
BASED
TARGETS

DRIVING AMBITIOUS CORPORATE CLIMATE ACTION



**Member of
UN Global Compact**

Approved CO₂-reduction
targets from the Science
Based Targets Initiative.



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Diab is a world leader in sandwich composite solutions that make customers' products stronger, lighter and smarter. Diab provides a range of core materials, cost-effective kits and finishings, along with in-depth knowledge on composites. Diab also provides engineering services for composite technology through CCG (Composites Consulting Group). Diab is a participant in the UN Global Compact.