

We have pioneered the use of the sandwich concept to make structures that are significantly lighter and stronger than those made from steel, aluminum and wood.

We are very much a technology leader being the first company to introduce core kits. We are also in the forefront of new environment-friendly processing developments such as the DIAB core infusion method where the core itself is used as the resin transfer medium.

We have always been much more than just a materials supplier. As a result we establish long-term partnerships with our customers by providing high performance composite materials and an extensive range of technical support services.

Our aim is to maximize time, labor and materials savings and improve quality while at the same time foresee and eliminate potential problems.



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**Your Partner in
Sandwich Composite Technology**

Core Materials



Technical Support



Composite Engineering



Process Support



Training Services



Sand. Tri-fold-Eng-1K/07.02-Rev.2

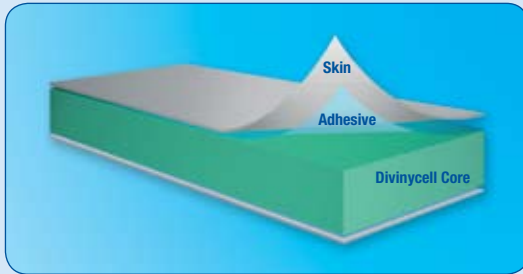


**The
Sandwich
Concept**

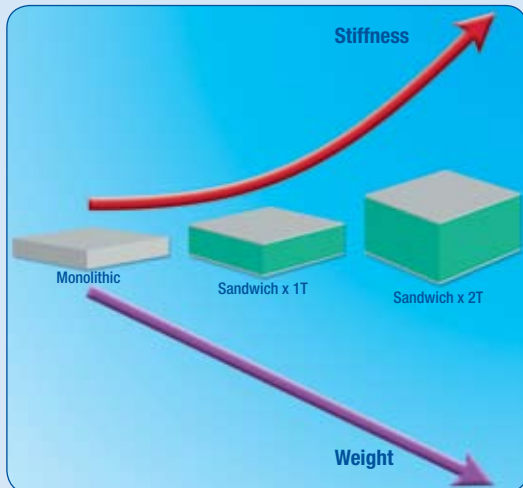


The Sandwich Concept

The Concept



In principle a sandwich consists of two skins or facings with a light weight core material in between. The skins take up normal stresses and give the structure a hard wearing surface. The core material absorbs the shear stresses generated by loads, distributing them over a larger area.



Compared to solid laminates, the sandwich concept substantially improves flexural rigidity and flexural strength. By increasing the thickness of the core, the improvements are even greater yet the weight increase is negligible.

The Benefits

High Strength to Weight Ratio



The higher strength-to-weight ratio can be used in a variety of ways - higher speeds, longer range, greater payloads or reduced power.

Good Dynamic Strength



DIAB Divinycell has good dynamic properties making it ideal for applications where shock and impact loads are experienced.

Excellent Thermal/Acoustic Insulation



Using Divinycell eliminates the need for additional insulation materials that add extra weight to the structure.

Main Advantages

Freedom of Design

With Divinycell sandwich composites, designers and engineers have tremendous freedom in terms of both form and function.



Production Flexibility

A wide range of processes can be employed; from hand laminating to vacuum infusion.



Process Compatibility

Divinycell cores are compatible with virtually all resin and fiber types.



Less Waste

Divinycell can be supplied in ready-to-use kits saving time/labor, improving quality and eliminating scrap.



Low Water Absorption

Unlike balsa and wood, Divinycell core materials are closed cell and therefore will not rot.



Long Life

Sandwich composites don't rust or corrode thus a long life is assured. They also require minimum maintenance throughout their service life.