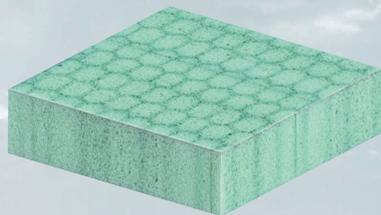


PRODUCT OVERVIEW

PET KERDYN™ LITE BALSAFLEX™ LITE

FOR REDUCED WEIGHT
& RESIN CONSUMPTION





As wind turbine blade size increases, Gurit's Lite Kerdyn™ and Lite Balsaflex™ core offering delivers effective weight and cost-savings for wind blade manufacturers.

ENABLING LARGER WIND TURBINES

INCREASING BLADE LENGTH

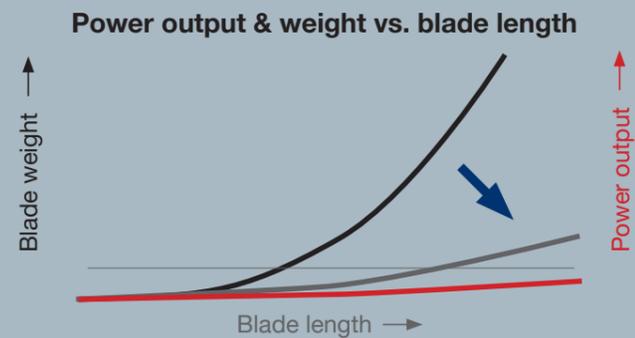
As wind turbine blade length increases, designers are faced with tackling the issue of increased overall weight, therefore wind blade manufacturers demand lightweight solutions.

An additional challenge for wind blade manufacturers is the rising cost of resin, which has significant impact on the TCO (total cost of ownership).

GURIT'S 'LITE' SOLUTION

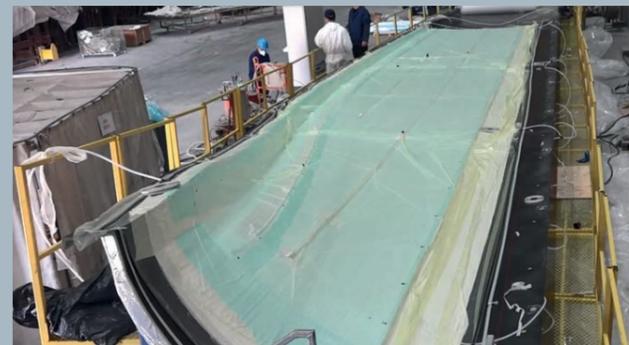
Gurit's 'Lite' core product offering reduces core resin absorption via surface treatments, resulting in a reduced weight of the infused panel and cost savings thanks to a lower resin consumption.

This complements Gurit's solutions to reduce cost and cycle times, such as blade production automation and core kitting engineering services.



Weight still increases faster than power output:

Power output \approx (Blade length)²
 Blade weight \approx (Blade length)^{~2.4}



Wind blade layup with Balsaflex™ Lite



GURIT BALSAFLEX™ LITE

Gurit Balsaflex™ Lite has been developed to reduce the resin uptake (RU) of Balsaflex products by sealing the ends of hollow vessels and capillaries within the Balsa wood structure through an **UV cured coating**.

Gurit Balsaflex™ Lite greatly reduces resin uptake in both rigid and flexible panels.



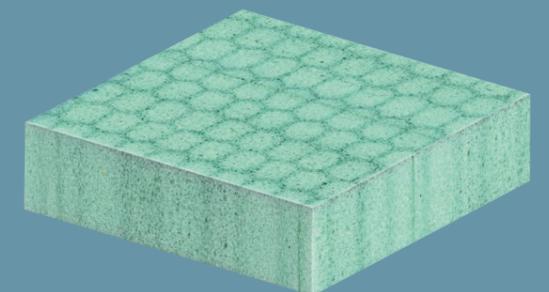
Balsaflex™ 150 CS	Balsaflex™ 150 Lite CS
Resin uptake* = 2.4kg/m ²	Resin uptake* = 1.1kg/m ²

*Resin uptake value based on Plain core. Infusion with pigment shows lower resin absorption in Balsaflex™ Lite

GURIT KERDYN™ LITE

Gurit Kerdyn™ Green Lite has been developed to reduce the resin uptake of Kerdyn™ products.

The surface cell structure is sealed by applying heat and pressure.



Kerdyn™ Green 100	Kerdyn™ Green 100 Lite
Resin uptake* = 1.1kg/m ²	Resin uptake* = 0.6kg/m ²

*Resin uptake value based on Plain core. Glossy surface shows visual effect of thermal treatment

