

TECHNICAL DATA SHEET

BALKORE

END GRAIN Balsa PANELS
KILN DRIED

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Properties

- High mechanical resistance properties compared to weight
- Eco-friendly product
- It can be exposed to a broad range of temperatures without affecting its performance or physical structure
- Very good insulating properties
- High impact resistance

Applications

- Marine industry, boat hulls and decks,
- Wind power, blades, nacell structure, flooring,
- Material handling, pallets, containers
- Sporting goods, long surf boards, snow boards, skis
- Aircraft and railroad coaches, floor, internal partitions, cargo pallets
- Industrial applications, storage tanks, bridge structures,

Processes

- Vacuum infusion
- Mould injection
- Molding, hand, spray, compression,
- Compatible to all composite processing methods

General description:

BALKORE EG is an industrial structural material produced with kiln dried balsa wood planks glued into blocks and then cross cut sliced into panels of the desired thickness.

The end grain configuration and the honeycomb cell structure of Balsa wood gives to this material a unique and strong bond to most resins and materials used by the composite materials industry. The resulting sandwich structures have very high ratios of weight to mechanical resistance properties.

The EG panels are compatible with all resins commonly used by the composite industry, has good fire and chemical resistance properties. Depending on the final use, it is available rigid or flexible. To reduce the resin absorption, the product can be coated with a sealant to reduce porosity and improve bond strength.

Typical properties of BALKORE® EG

		Unit Metric	EG-150
Apparent nominal density	ASTM C-271	kg/m ³	150
Compressive strength perp. to plane	ASTM C-365	N/mm ²	12.7
Compressive modulus perp. to plane	ASTM C-365	N/mm ²	3995
Tensile strength perp. to plane	ASTM C-297	N/mm ²	13.1
Tensile modulus perp. to plane	ASTM C-297	N/mm ²	3520
Shear strength	ASTM C-273	N/mm ²	2.9
Shear modulus	ASTM C-273	N/mm ²	155
Thermal conductivity	ASTM C-177	W/m.K	0.063
Standard size of panels	Width	mm	609.6
	Length	mm	1219.2

The data specified are approximate values for the nominal densities; variations in density will give lower or higher values.

The information provided does not imply any guarantee, are values which to our best knowledge and to the reliability of tests we believe are correct.