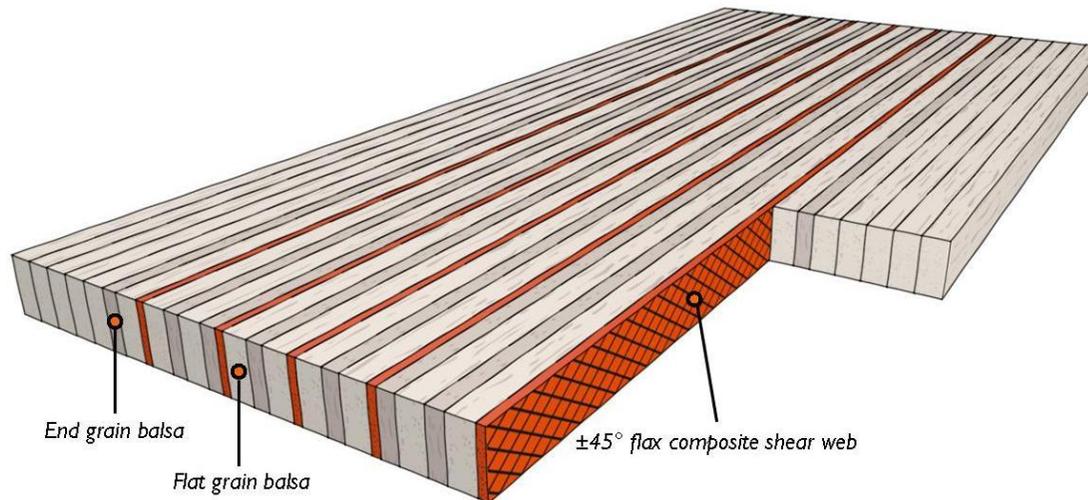


bCores[®] D200



Mechanical properties on the core width

Density*	220 kg/m ³
Compression modulus z	1400 MPa
Compression strength z	5 MPa
Shear modulus xz	350 MPa
Shear strength xz	4.3 MPa
Flexural modulus x	2200 MPa

x direction is length direction parallel to ribs
 y direction is width direction
 z direction is out of plane direction

* All these values are average values for the complete core. As the high-density balsa is mainly on the sides, it is mostly removed in the center of the ski when the sidecut is machined. Thus the actual density of the core in final shape will be in the range between **200-210 kg/m³**.

Product description

bCores[®] D200 is a structural core suitable for composite applications. The core is made of Balsa Plywood and flax fiber reinforcement materials to significantly improve mechanical properties, especially fatigue and long-term shear properties in length direction. The balsa plywood ensures an exceptionally high compression strength and stiffness, which guarantees good bending properties of the core. The patented bCores[®] D200 construction delivers constant quality and density.

Processing guidelines

- The D200 core can be used in any classical manufacturing method (contact molding (hand/spray), vacuum infusion, resin infusion / injection (VARTM / RTM), adhesive bonding, Pre-preg processing, compression molding (GMT, SMC)).
- Compatible with most standard resins.
- Processing temperatures up to 150°C and manufacturing pressure up to 15 bars can be used.
- Please consider our process guidelines.

Dimensions

Standard widths: M_120 mm, L_140 mm
 Thickness: 2-1220 mm
 Maximum length: 3070 mm
 Standard lengths: 1530, 1800, 2000, 3070 mm

Core construction

±45° Flax shear web: ampliTex[®], 60% fibres, 40% resin
 Number of flax reinforcement: Size M_4, Size L_5
 Wood types: BANOVA[®] balsa - FSC certified

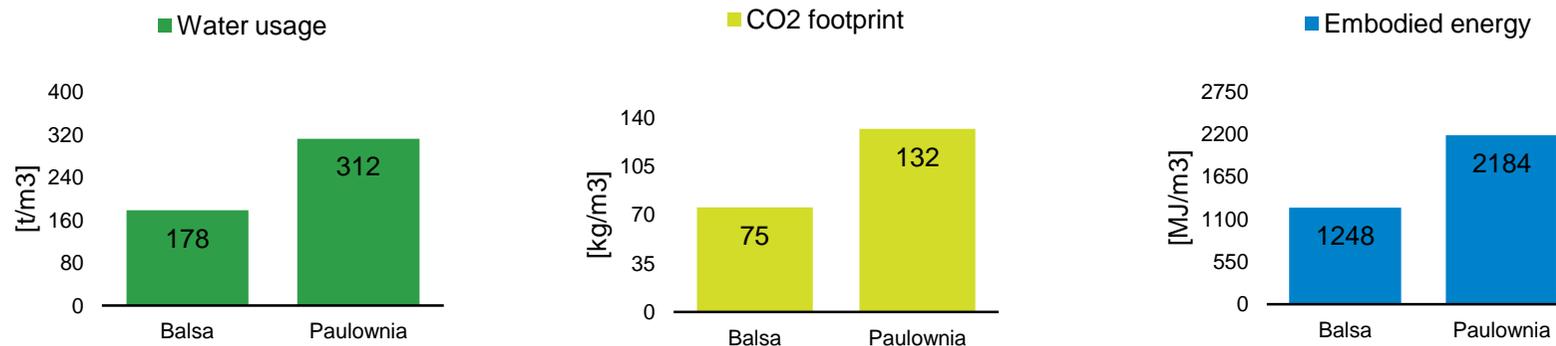


Ecological aspects

Balsa wood is among the fastest growing tree in the world

It's FSC-certified, compliant with FSC criteria, which include e.g. taking care of indigenous peoples' rights, maintain biodiversity, resources and landscapes.

Regarding water usage, CO₂ footprint and embodied energy, balsa wood has an overall environmental impact about 40% lower than paulownia wood.



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