

#WeKnowWood

# Eco stand-up paddleboard made from renewable raw materials

The eco stand-up paddleboard consists of a lightweight-construction sandwich element made from renewable raw materials.

For the core, balsa wood from discarded wind-energy rotor blades is used – a sustainable solution for their high-quality recycling. The outer shell is comprised of bio-plastic that is reinforced with regionally available flax fibers. The development represents an ecological alternative to the petroleum-based materials that have been used up until now for water-sports equipment.

Lightweight-construction materials are environmentally friendly, as lower amounts of energy and raw resources are required for transportation and manufacturing.

The stand-up paddleboard was selected as a demonstration object because it has to meet high requirements in terms of mechanical strength in combination with resistance to moisture, salt water and UV resistance.

In the future, the new bio-composite material could be utilized in other watersports items, as well as in the construction of buildings, cars, ships and trains.



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