

Honeycomb wood core developed



A fish tank made with Sing Honeycomb Core.

A CHEAP alternative to balsa wood has been developed as a honeycomb filler for glass fibre composite. Sing Honeycomb Core is available at less than 30% the cost of balsa wood or other foam cores, its creator, Peter Sing, based in Washington, USA, reports.

The honeycomb core, which was created as an alternative to aluminium honeycomb, is made of renewable vertical grain wood fibre and low density polyurethane (PU) or expandable polystyrene (EPS) foam, Sing says.

Sing Honeycomb Core is almost one-third the weight of balsa wood, according to Sing, who adds that the material is strong and more dimensionally stable than wood, because it has less twist and deformity. It is also said to be stronger and lighter than medium density foam and could be a suitable replacement for low and high density foams,

polyvinyl chloride (PVC) or polypropylene (PP) core.

Sing says that the development of Sing Honeycomb Core could allow a wider range of industries to use the wood core in applications requiring a lightweight alternative to the honeycomb cores currently on the market.

"Due to the high cost of core materials, the use of honeycomb is limited in the aviation and boat business," says Sing. "This newly invented core will take glass fibre to new areas of production, such as the home building industry."

Sing Honeycomb Core is available with wood, metal or glass fibre finishing and is suitable for a variety of applications, such as doors and panelling, tanks, beams, posts, windows frames, flooring and walls.

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