

BOATBUILDING



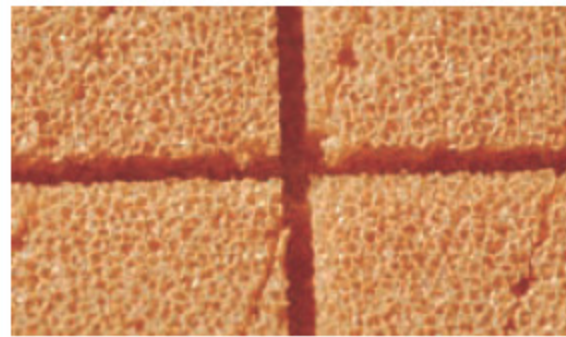
This racing hull exhibited a complete failure of the bond-line between the core and outer skin.



Resin infusion obviously fills the kerfs in the balsa-cored hull of a J-130. The outer surface skin is at the top.



This micro photograph reveals the compression and even saturation of resin-infused woven roven.



A closeup view of Klegecell foam core clearly reveals the kerf channels that allow the foam to conform to curves in the hull shape.



The outer skin has sheared away from the low-density foam core sample, despite good penetration of the core-bond adhesive.

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The results of an impact test on a 1-inch-thick cored panel illustrate a classic example of shear failure.



An impact test on a 3/4-inch solid fiberglass panel (shown at right) resulted in this fracture.



This cross-section of deck laminate shows voids near the outboard edge of the deck where core ends and solid laminate begins.



The corner cross-sectional view of a hatch opening shows where rotted core has been reamed out for repair, prior to fitting a new hatch.



An Instron impact test machine delivers carefully measured point loading on a 3/4-inch solid fiber reinforced polyester (FRP) panel.