

Filament Wound Tapered Tubular Masts & Battens Perform in Demanding Marine/Sporting Applications



The backbone and ribs of Windsurf sails are stiff, resilient and light weight composite tubes used for masts and battens. Tubes incorporate glass and carbon/glass, hybrid fiber reinforcements in a tough epoxy resin. The precision placement of prestressed fibers in continuous axial and biaxial plies optimize the stiffness, durability, transverse and bending strengths. The inherent flexibility and memory of the composite tubes dampen the effect of overpowering windloads and reflex to maintain an efficient sail shape.

The unique, multi-ply fiber architecture permits extra biaxial reinforcement in specific stress areas such as at the base, boom and the joints of 2 piece masts in addition to 5 other alternating plies.

Both tapered masts and constant cross section batten tubes are produced in sophisticated, continuous hybrid filament winding process. Composite masts and battens perform in extreme conditions in windsurfing and other demanding marine applications.

Process: Continuous Filament Winding

Materials: Glass and Carbon Fiber in Bisphenol Epoxy Resin

Properties: Stiffness, durability, light weight, flexural and transverse strengths

Size: 2.2" to 1.25" O.D. Tapered x 16 feet long masts and .370" to .610" O.D. x 0.37" to .055" wall thickness for battens

For additional information write or call:

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