

### 3. Materials

- 2 1/2 sheets 4mm okoume plywood
- 3/4" x 3" x 10 ft. clear, straight-grained spruce or pine for inwales and batten. A 1 x 4 (actually 3/4" x 3 1/2") from your local lumberyard will do.
- 1.5 gallons epoxy (total volume of resin and hardener)
- 1 lb. wood flour epoxy thickener for gluing and filleting (e.g. West System #405)
- 130 grams microballoon-based filleting & fairing thickener (e.g. West System #407)
- 6 yds., 6 oz. fiberglass cloth at least 30" wide; more if you plan to put cloth inside the cockpit. The cloth should have sizing for epoxy resin as opposed to regular cloth which is designed for polyester resin. However, I've had good luck with regular marine store fiberglass cloth.
- 50 yds., 2" wide, 9 oz. fiberglass tape (6 oz. for natural finish boat)
- 50 ft., 16 or 18 gauge, brass or copper wire
- 2 oz., 1/2" 16 gauge brass escutcheon pins
- Paint of choice (see Section 27). A pint is plenty, but it may be difficult to get the color of your choice in less than 1 qt.
- 1/2 pint ultraviolet-filter varnish
- Foot braces

**Optional** (depends on how you customize your boat):

- 3/4 in. of 3/16 in. diameter stainless steel rod (hinge pin for skeg)
- 1.5 ft. of 1/8 in. bungee cord (to lower skeg)
- 6 ft. braided nylon cord (skeg control line)
- 1 CAMCLEAT CL211 Mk1 Racing Junior fairlead cleat, or equivalent, for skeg control line
- 20 plastic eye straps (number depends on your personal layout for deck lines)
- 8/32, 5/8" stainless steel bolts, nuts, and washers for eye straps
- Hatches (see below and Appendices C, D, and E)
- Seat and backband (see Section 26)
- 1 1/2" x 3" X 4' clear, straight grained wood of choice for cockpit coaming and rim
- Silica thickener ("Cab-O-Sil"), for an extra-hard bottom.

**Plywood.** Okoume (pronounced "o-koom-ay") is the material I am most familiar with. Okoume is a West African hardwood with grain and color similar to mahogany. Three-ply, 4mm thick sheets are adequate. Other species such as mahogany, meranti, or marine-grade luan would also do well. A list of suppliers is included in the appendix. Several will ship plywood via truck.

All available plywood comes from tropical hardwoods, and the sustainability of harvest practices in terms of timber supply, biodiversity, water quality, and impacts on indigenous cultures is questionable in many areas. Ask your supplier if they sell plywood from sources accredited by the Forest Stewardship Council (FSC). FSC-certified wood products come from forests that meet criteria for social, economic, and environmental sustainability. To my knowledge as of 1998 there is no certified plywood available, but if we keep bugging the suppliers eventually consumer demand may result in a certified supply.