

Building *Little Laker*

Tools needed:

1. saber saw
2. block plane (can be adapted for bevel jig)
3. drill and drill bits
4. small hammer
5. hand saw (Japanese pull saw is best)
6. $\frac{3}{4}$ inch chisel
7. orbital sander (5 inch is best)
8. tape measure (16 ft minimum)
9. spring clamps (5)
10. bar clamps (5)
11. mat knife or razor blades
12. safety glasses
13. dust mask
14. square
15. string snap line or string

Helpful tools

1. table saw
2. cordless drill
3. 8 inch jack plane (bevel jig)
4. belt sander and frame (for scarfing)
5. circle saw (for scarfing alternative)
6. router (for scarfing alternative)
7. # 6,8,10 counter sinks and bits
8. set of chisels

Plywood: It's best to use marine grade plywood manufactured to British Standard 1088 or BS1088. Look for the BS1088 stamp on each sheet. *WoodenBoat* has two articles on marine plywood that are very good sources of information.

- 1 9mm transom and parts
- 2 6mm bottom
- 2 6mm garboard
- 4 4mm mid-plank and sheer plank
- 1 4mm for bulkheads and decking

Inwales and Outwales

Approximately 60 linear feet of 1½ X ¾ fir, mahogany, Liptus, or builder's choice

Material for cleats

Approximately 100 linear feet of ¾ X 5/8 fir, clear pine, basswood

Epoxy: *LITTLE LAKER* will require **1½ to 2 gallons** of resin and the appropriate amount of hardener. I've used System Three Epoxy for over 10 years and I've found it to be excellent. I really like the two to one mixing ratio...Which ever epoxy you use...and there are least three major brands...I highly recommend **The Epoxy Book** (enclosed)....reading it carefully will save you mistakes that will cost time as well as money....in addition you'll need:

- o 2 5 quart tubs of cab-o-sil
- o 1 quart wood flour
- o measuring cups (I like the plastic 1 oz cups)

- o approx 100 #6 X 3/4 screws (silicone bronze or stainless)
- o approx 100 #6 X 1 screws (silicone bronze or stainless)
- o approx 100 #8 X 1 1/4 screws (silicone bronze or stainless)
(square drive, Frearson or Phillips wood screws)
(a small box of fine finish nails 1 1/2 long)

Fiberglass cloth:

- o 50 yards of 4 inch wide 6 ounce tape
- o 5 1/2 yards of 4 ounce 50 inch wide fiber glass cloth (use 6 ounce if weight is not that much of an issue or 9 ounce for heavy abrasion like oysters – 9 oz cloth will add a significant amount of weight)

3 sheets 5/8 or 3/4 inch particle board or MDF for molds. Each blank should be cut just slightly wider than the maximum beam at that station. Rip the sheet so each blank is the height the base line is above the strongback, I used 30 inches on my boats.

Also, you need masking or plastic tape for the edges of the molds. **Be sure to tape the edges of the molds or they will become a permanent but unwanted part of the boat!!!!**

1 sheet of 3/4 inch plywood for the strong back ripped into 6 inch wide by 8 foot strips.