

# Materials List

Bottom from one sheet (4 × 10') of 1/2" (12mm) mahogany plywood (SNBCC, Bruynzeel, or equal in quality).

Rudder blade, daggerboard, and trunk sides will come out of the remainder of this sheet.

Side planks from two sheets (4 × 12') of 1/4" (6.5mm) mahogany plywood (SNBCC, Bruynzeel, or equal).

Rudder and tiller cheek pieces will come from remainder.

Stem from several pieces 1/8 × 1 3/4 × 42" fir or mahogany strips to laminate as shown. Finished siding to be 7/8".

'Midship frame from enough 1/8 × 1 1/8" fir or mahogany strips to laminate as shown. Finished siding to be 7/8".

Transom from 3/4" (18mm) mahogany plywood as above. Requires piece 18 × 36".

Seats from 38"-, 40"-, and 50"-long pieces of 1 × 8" cedar or pine.

Guardrails from two pieces 5/8 × 1 1/4" oak or mahogany, 12' long.

Inwales (optional) 1/2" × 7/8" × 12' from oak or mahogany .

Knees and breasthook from enough 7/8 × 6" mahogany to make four knees and two breasthook pieces.

Seat support blocks from 1 1/2" × 2 1/2" × 5' mahogany.

Keel/skeg from 7/8" × 5" × 10' mahogany.

Daggerboard trunk logs from one piece 1 1/8 × 1 3/4 × 27" mahogany.

Daggerboard trunk posts from one piece 9/16 × 1 × 25" mahogany.

Maststep from one piece 1 1/2 × 3 1/2 × 6" oak or mahogany.

Tiller from one piece 7/8 × 3 × 42" mahogany or oak.

## Spars:

Mast from one piece 3" × 3" × 10' spruce; may be glued up from two pieces of 2 × 4' clear spruce.

Boom from one piece 1 3/4" × 1 3/4" × 10' spruce.

Yard from one piece 1 1/2" × 1 3/4" × 9' spruce.

Oars: One pair 7 1/2' spruce or ash oars.

Oarlocks and sockets.

Rudder hangers: One set suitable hardware, available from: The WoodenBoat Store or The Anchorage.

Painter from at least 15' of 3/8" Dacron rope.

Halyard, sheet, and traveler from about 55' of 1/4" Dacron rope.

Two 3/4" round brass thimbles or small blocks, three small bronze or stainless eye straps, one #1 bronze snaphook.

Belaying pin: 5" long, from oak, locust, or bronze.

Epoxy glue.

Paint and sandpaper.

Chafing strip: 1/2" half-oval brass; about 12 1/2' needed.

Fastenings: all bronze unless noted

Wood screws:

(50) 3/4" #8 FHWS; plank to guardrail;

(100) 1" #8 FHWS; plank to transom, stem, and frame; seat blocks to plank; daggerboard trunk assembly; outer to inner stem; bottom to transom, frame and stem;

(42) 1" #10 FHWS; (20) for bottom to keel; (16) for oarlock pads to gunwales; (8) oarlocks to pads;

(12) 1 1/4" #10 FHWS; breasthook and stern knees to plank;

(24) 1 1/2" #10 FHWS; (4) for stern knees to transom; (8) for daggerboard trunk to bottom; (12) for guard rails to breasthook and stern knees;

(40) 1 1/2" #8 FHWS; inwale to guard rail;

- (14) 2" #12 FHWS; seats to seat support blocks;
- (14) #12 brass finish washers (optional for seats);
- (30) 3/4" #6 FHWS brass chafe strip to boat;

Machine screws:

- (1) 1/4"-20 x 4" FHMS; keel to bottom;
- (2) 1/4"-20 x 2 1/2" FHMS; mast step to bottom;
- (4) 1/4"-20 nut; keel to bottom; mast step to bottom;
- (5) 1/4" washer; keel to bottom; mast step to bottom;
- (1) 1/4"-20 x 2" RHMS; for tiller;
- (1) 1/4" 1D x 1" copper pipe; tiller bushing;
- (16) #10 x 1 1/4" FHMS; oarlock sockets to guardrail;
- (2) 1/4 x 2 1/2" FHMS; maststep to bottom.

## Tools

- Claw hammer
- Block plane
- Smoothing plane
- Spokeshave
- Butt chisel, about 3/4"
- Crosscut handsaw, fairly fine
- Hacksaw
- Tape or folding rule
- Framing square
- Combination square
- Sliding bevel square
- Spirit level
- Set of twist drills in sizes to 1/4"
- Countersink
- Small electric drill with 1/4" or 3/8" chuck
- C-clamps, about a dozen 4" to 6"
- Sharpening stone for edge tools
- Manual screwdriver—the type of your choice as long as its bit fits the screw slots
- Pencils
- Wood rasps
- Mill file (for metal)
- Putty knife
- Scraper
- Center punch

## Optional tools that will make the job go more quickly

Bandsaw

Sabersaw

Electric drill press with 1/4" or 3/8" chuck

Variable-speed electric or cordless drills for drilling holes and driving screws; two will make the job go faster

Regular and drywall bits for drill/ screw gun

Portable electric plane

Bench grinder (for sharpening edge tools)

Combination taper drills/countersinks for the screw sizes used