

Tools List

RUTH can be built with just a few tools, none of which need to be top of the line. [However, high quality jig saws are far, far superior to less expensive versions]

Minimal: Dust mask, nitrile gloves, eye and hearing protection
Two saw horses

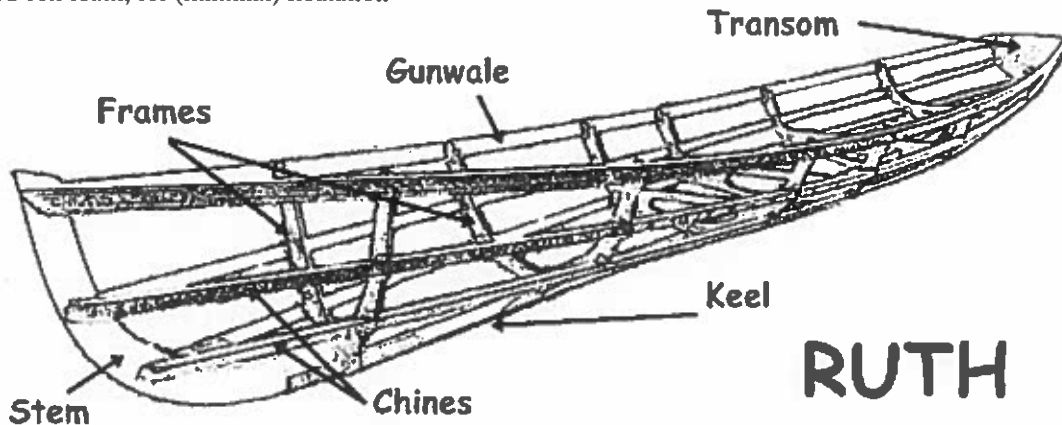
Power Tools: Jigsaw, circular saw, drill (with drill bits, drivers and #8 countersink bit), clothes iron or heat gun.

Hand Tools: Heavy duty staple gun, hand saw, wood rasp, tape measure, framing square, level, clamps.
Sharp scissors, large sewing needles, small paint roller, paint brush, pencils, lighter, sandpaper

Optional Tools - these will greatly facilitate your build, but aren't truly necessary:
Band saw, table saw, electric sander, block plane, chalkline, more clamps

Other items you will need

19' {5.8m} of uncoated 8oz polyester fabric, at least 48" {1.22m} wide. Order fabric from George Dyson – GDyson@gmail.com
Marine epoxy and thickening agents (colloidal silica or microfibers) – see appendix.
Artificial Sinew (70lb waxed polyester) or equivalent. This can be found online or at many craft and hobby stores.
3/8" {9mm} Stainless Steel or Monel staples
Stainless steel or silicon bronze #8 flat head, coarse threaded screws, 1-1/2" {38mm} long. Qty 75
Silicon bronze or brass #6 flat head wood screws, 3/4" {19mm} long. Qty 75
Two 3" {76mm} stainless steel #10 pan head screws, with washers.
Large headed copper or bronze nails or tacks Qty 12
Light rope, or two or more tie-down straps (the kind with cam buckles, but without hooks).
2 quarts/ litres of oil based paint or varnish.
1 quart of Teak oil, and a small paint brush
Optional: Closed cell foam, for (minimal) floatation



Wood List

You will need a half sheet of 1/2" (12mm) BS1088 Okoume marine plywood, as well as two "1x6" {19mm x 14cm} and one "1x3" {19mm x 6.4cm} Western Red Cedar boards, 18' {5.5m} long. You'll also need an ash or oak board for making floorboards, etc. Also, you will need half of a sheet of 1/4" (6mm) Okoume marine ply for thwarts.

The **frames, transom, stem, breasthook, skeg and knees** are 1/2" {12mm} marine plywood.
The **thwarts** (seats), are 1/4" (6mm) marine plywood. Thwarts are optional if you plan to use a drop-in sliding seat rig.
The **gunwales** are 1-3/4" x 3/4" {4.5cm x 19mm} Western Red Cedar (WRC)
The **inwales and spacer blocks** are 1-1/4" x 3/4" {3.2cm x 19mm} WRC
The **chines and the keel** are 1" x 3/4 {2.5cm x 19mm} WRC
The **rubrails** are 1/4" x 1" {6mm x 2.5cm} cedar or fir, etc.
The **floorboards** are 1/4"x2" {6mm x 5cm} hardwood slats - oak or ash work well.
The **strongback** is a straight, flat 2x4 {3.8cm x 10cm} board, 12 feet {3.66m} long, of any species.
The two **mounting brackets** can be made from any scrap plywood at least 1/2" thick.

You will need boards 18' {5.49m} long for all the stringers except for the keel, which can be gotten out of a 16' {4.88m} long board. Be selective of your stock when searching through the woodpile - you want CVG (clear, vertical grain) boards - no knots, with straight vertical grain that has little or no run-out.