

Kayak Bill of Materials

IN GENERAL: All lumber used should be free from shakes and knots. In the material listings mahogany and spruce are listed. Mahogany refers to the dark red variety and spruce to the sitka type. It is suggested that light weight materials be used whenever possible, Other lumbers not listed but of similar qualities may be substituted. All lumber listed as 3/4" is "four quarters" lumberyard material which when finished may vary, but commonly 3/4". ALL WIDTHS ARE NET. Lumber noted as 1/2" is to be NET; usually cut down from "four quarters" material.

All plywood must be of an exterior type. Douglas-fir (D.F.) plywood is considered satisfactory in all cases. Although long lengths may be used as noted in the text, the layouts noted are for standard 4' X 8' panels. Panel faces are designated as "A" or "B" faces or better, although a one side "C" veneer could be used on the deck. Douglas-fir plywood is normally not available in thicknesses less than 1/4". For thinner plywood use the imported marine plywoods, measured in millimeters. These materials are more expensive; use when light weight is important. Use 1/4" material for economy.

Fastenings throughout should be either hot-dipped galvanized or bronze. For a boat of this type the galvanized can be considered to be completely adequate. All joints throughout the construction should be glued with a hard setting glue. Epoxy glue is recommended, but plastic resin glue can be used for economy except when gluing to oak or other woods that tend to react with this type of glue.

ITEM	MATERIAL	NO. PCs.	SIZE
LUMBER:			
Chine logs	Mahogany or spruce	2	3/4" x 1 1/4" x 12' or 14'
Keel	Mahogany or spruce	1	3/4" x 1" x 11' or 12'
Sheer	Mahogany or Spruce	2	3/4" x 3/4" x 14' or 16'
Strongback	Mahogany or Spruce	1	3/4" x 1" x 12' or 14'
Carlings & blocking (double cockpit)	Mahogany or Spruce	1	1/2" x 2" x x 9'
OR (single cockpit)	Mahogany or Spruce	1	1/2" x 2" x x 6'
PLYWOOD			
Bottom planking stems & butt blocks	AB Ext. D.F.	1	1/4" x 4' x 8'
Side planking	AB Ext., D.F. or marine	2	3mm, 4mm or 1/4" x 4' x 8'

Decking	AB Ext. or marine	1	3mm, 4mm or 1/4" x 4' x 8'
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FASTENINGS - Bronze or hot dipped galvanized:

Screws - Flat head, wood screws:

3/4" #8...3 gross	1" #8...1 gross	1 1/4" #8...2 doz.	1 1/2" #8...2 doz.
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Nails - Annular type boat nails: 3/4" #14.....1 lb.

Glue - EPOXY, plastic resin, or resorcinol Half gallon, or 4 1/2 lbs. depending on type.