

Airboat Bill of Materials

The following list of materials is intended to be a general guide only. Before ordering any materials, the text and plans should be checked for possible options. All lumber listed as 1" stock is to be standard "lumberyard four-quarter" material which when finished may vary to somewhat less or slightly more than 3/4" in thickness. All widths are NET and all lengths allow for cutting to fit. Grouping lumber and purchasing random-random material to resaw to the required size will result in considerable savings. All lumber used should be first grade free from shakes and knots. Although spruce (Sitka variety) and mahogany (dark red Philippine type) are called out in the listing, lumber typical to the locale and of similar types and weights may be substituted. All plywood (PW) is to be marine (MAR) or exterior (EXT) grade. The marine-type is preferable as the inner cores are solid and thus the panel has more structural integrity. Douglas-fir (DF) is satisfactory with the quality of the exposed faces of the veneer being designated by the letters "A" or "B". The "AA" grade panels are always preferable, however, "AB" grade is acceptable. All plywood should be a minimum of three plies. All fastenings should be bronze or hot dipped galvanized ferrous metal. Brass fastenings are not advised nor are the electroplated screws commonly sold in hardware stores. All screws are to be of the flat head type intended for wood. All nails are of the ring-type nail common to boat construction. Unless otherwise specified, all wood-to-wood joints are to be glued with a waterproof or highly water resistant glue such as plastic resin, resorcinol, epoxy, or other equivalent type used per the manufacturer's instructions regarding temperature, clamping requirements, curing time, and mixing method.

MATERIAL ABBREVIATIONS: Ext = exterior; Mar = marine; Mah = mahogany

LUMBER:			
ITEM	MATERIAL	NO. PCS	SIZE
Frame 1 - Side & bottom -Cleat	Mahog Mahog	1 1	1" x 3" x 9'-3"* 1" x 5-1/2" x 2'-2"
Frame 2 - Bottom Side Cleat	Mahog Mahog Mahog	1 1 1	1" x 3" x 6' 1" x 4" x 2'-6"* 1" x 3" x 2'-2"

Frame 3	Mahog	1	1" x 3" x 8'4"*
Transom	Mahog	1	1' x 6" x 9'4"*
Seat cleats	Mahog	1	1" x 1" x 10'*
Sawn chine	Mahog	1	1" x 6" x 6'*
Sawn chine upright	Mahog	1	1" x 3" x 2'*
Long beam - Curved part	Mahog	1	1" x 6" x 6'-2"*
Upright	Mahog	1	1" x 2" x 1'-4"*
Top cleat	Mahog	1	1" x 1-1/4" x 6'-6"*
Aft upright	Mahog	1	1" x 1" x 2'-6"*
Bow Pc. A	Mahog	1	1" X 9" X 5'-6"*
B and C	Mahog	1	1" x 6" x 5'-4"*
D	Mahog	1	1" x 6" x 5'-4"*
Sheer	Mahog	2	1" x 2-1/2" x 13'
Chine	Mahog	2	1" x 1-1/4" x 9'-6"
Transom cleat (sheer)	Mahog	1	1" x 2-1/2" x 7'
Corner knees	Mahog	1	1" x 6" x 1"*
Keel	Mahog	1	1" x 3" x 13'
Battens	Mahog Mahog	2 2	1" x 2" x 9'-6" 1" x 2" x 13'
Raised sheer cleat	Mahog	2	1" x 1" x 5'
Sheer clamp - Sides	Mahog	2	1" x 1" x 13'
Bow and Transom	Mahog	1	1" x 1" x 12'

*NOTE: Many of the above listings make two parts or more.

PLYWOOD:

Aft bottom planking, transom & butt blocks	Mar	2	3/8" x 4' x 8'
Fwd deck & half of seat	Ext	1	3/8" x 4' x 8'
Fwd bottom planking & half of seat	Mar	1	3/8" x 4' x 8'
Frame #1, fwd. side, bow, & bulwark planking	Ext	1	1/4" x 4' x 8'
Aft side planking & frame #3	Mar	1	1/4" x 4' x 8'

FASTENINGS:

- SCREWS: Flat head wood type, bronze or hot dipped galvanized iron.
- 3/4" #8 Screws - 2 gross
- 7/8" x #8 Screws - 1 gross
- 1" #8 Screws - 2 gross
- 1-1/4" #8 Screws - 9 dozen
- 1-1/2" #8 Screws - 1 gross

- NAILS: Ring type, Bronze or Monel
- 3/4" #14 - 1 pound
- 1" #12 - 1 pound

GLUE: Epoxy - Approximately 1/2 gallon