

Jimbo-Plywood Bill of Materials

LUMBER: Under the "Material" heading in the following chart, the kind of wood is not specified (NS) except in cases where a certain type of lumber will be advantageous due to beauty, strength or weight. White oak, mahogany (Philippine or Honduras), spruce, fir or similar types of wood common to the area for boatbuilding can be used. Seat cleats and similar members that impart no great structural strength may be almost any good grade of lumber. The wood should be knot free (small solid ones are permissible), properly dried, and free of splits. Lumber designated as 1" is "four quarters" lumberyard stock, usually finished to 3/4" net thickness. All widths are NET and the noted lengths allow for cutting to fit. However, lumber noted as 2" stock is lumberyard size in both thickness and width (e.g. A 2" x 4" will usually net 1 1/2" x 3 1/2"). NOTE: The following listing is for the basic hull only, including deck framing and deck but not the sole or console. Although the sizes are noted individually, it is best to group the lumber, purchase "random/random" (varying widths and lengths) lumberyard stock, and rip and trim to the required sizes.

CHECK ALL SIZES TO THE WORK PRIOR TO CUTTING.

Abbreviations used are: oak = white oak; Mahog = mahogany; DF = Douglas-fir; NS = Not specified.

ITEM	MATERIAL	NO. PCS.	SIZE
Cleat along top of LONGI upright	NS	2	1" x 1-1/4" x 9'
Bow CL upright	NS	1	1" x 3-1/2" x 27"
Bow deck beam	NS	1	1" x 5" x 4'
Strongback	NS	2	1" x 3" x 4'

**Strongback blocking	NS	1 (makes 4)	1" x 3" x 1'
Sampson post	DF	1	4" x 4" x 3'
Deck batten	NS	2	1" x 1-1/2" x 4'
Side deck beams	NS	1	1" x 3" x 2'
Deck beam @2	Mahog	1	1" x 7" x 6'
Bow deck beam	Mahog	1	1" x 5" x 5'
Sheer	Mahog or oak	2	1" x 1-1/4" x 16'
Outer sheer	Mahog or oak	2	1" x 1-1/4" x 16'+
Vertical at transom/ motorwell side junction	DF	1 (makes 2)	2" x 4" x 5'
Filler block at motorwell brace & side junction	NS	1	1" x 4" x 4'
Well side cleat	NS	1 (makes 2)	1" x 3" x 4'
Sole BH & cross beam cleats	NS	2	1" x 1-1/4" x 4' 6"

AFT BH cleats	NS NS	1 (makes 3) 1	1" x 1-1/4" x 4' 1" x 2" x 3'
Sole BH cleats	NS	1	1" x 1 1/4" x 4' 6"
AFT BH Deck Beam	NS	1	1" x 5" x 5'
**Carling blocking	NS	6	1" x 3" x 4"
Carling	Mahog	2	*1" x 7" x 13'
Coaming	Mahog	2	*1" x 8" x 13'
Clamp	Mahog	2	1" x 1-1/4" x 11'

*Using a template, per the instructions, will make it possible to nest these members and save material.

**Small parts such as these can be obtained from scrap lumber.

PLYWOOD: All plywood must be intended for marine or exterior use. Interior grades are NOT acceptable. Marine plywood has higher grade inner plies, while the exterior grade cores may be of inferior material with inner voids not apparent to the eye. In most cases, the glues used in both marine and exterior panels are the same. A solid core marine grade is preferable, although an exterior grade can be used with the understanding that unseen interior voids can cause problems. Douglas fir plywood is acceptable, but those made with okoume, mahogany, or other higher quality veneers (usually imports) are preferable. The grade of the exterior veneer of plywood panels is identified by the letters A, B, and C with A being best, etc. The best face of all panels should be the one exposed. Any patches on lower grade veneers should be on the interior, especially on the forward bottom. Check the PLYWOOD LAYOUTS in these instructions for how to use the listed plywood to obtain the various parts.

Abbreviations used are: DF = Douglas Fir; Mahog. = mahogany; PW = plywood; Ext.

= exterior; Mar. = marine.

ITEM	MATERIAL	NO. PCS.	SIZE
PANEL I thru VIII	Ext. or Mar. DF , AA or AB	8	3/8" x 4' x 8'
Deck	Ext. DF AB	2	3/8" x 4' x 8'
Transom, motorboard, & knee	Ext. DF AB	1	3/4" x 4' x 8'

FASTENINGS:

Screws: Flathead wood type, bronze

- 1" #8 - 1 gross
- 1-1/2" #8 - 2 gross
- 2" #10 - 6 each
- 3" #14 - 8 each

Nails: Ring type boat nails, bronze or Monel

- 1" - 2 1/2 pounds

Carriage Bolts: With nut and washer

- 5/16" x 6" - 4 required

STITCHING WIRE: copper wire 12 or 14 ga. - 50 Lineal Feet

MICROSPHERES (or equal): - 1 lb.

SILICA: 1 lb.

FIBERGLASS CLOTH: For **interior** junctions per Laminate Schedule

- 38" wide cloth - 6 yds (cut into 4" wide strips at 45 degree angle)

- 50" wide Bi-Axial cloth 18 oz per square yard - 3 yards (cut to 3" wide strips)

FIBERGLASS CLOTH: (cut into strips for **exterior** seams if NOT fiberglassing exterior.)

- 38" wide cloth - 3 yds add'l (cut to 4" strips at 45 degree angle)
- 50" wide Bi-Axial cloth - 1 1/2 yds add'l (cut to 3" strips)

"POXY-SHIELD" EPOXY RESIN with SLOW HARDENER:

- 2 gallons for encapsulating, resin putty fillets, gluing & applying interior tape.
- ADD 1 gallon (for encapsulating exterior & fiberglassing seams if NOT fiberglassing.)

FIBERGLASS COVERING: for bottom, sides & transom

- "POXY-SHIELD" EPOXY RESIN with SLOW HARDENER - 3 gallons
- FIBERGLASS CLOTH:
 - 38" wide cloth - 8 1/3 yds. (25')
 - 60" wide cloth - 5 2/3 yds. (17')
- BI-AXIAL CLOTH - 1 1/2 yds (cut to 3" strips for exterior seams)