

Variant 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, unless specified as NET. All widths are NET and all lengths allow for cutting to fit. Grouping lumber and purchasing random-random (r-r) 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 oak (white oak), Sitka spruce, and mahogany (African, Honduras, or Phillipine-dark red varieties) are called out in the listing, lumber typical to the locale and of similar types and weights may be substituted. Long-leaf yellow pine is a good substitute for oak. 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.

CHECK ALL SIZES TO THE WORK PRIOR TO CUTTING. Abbreviations used are: Mahog = mahogany; SP = Sitka spruce; DF = Douglas-fir; PW=plywood; Ext=exterior; MAR=marine.

ITEM	MATERIAL	NO. PCS.	SIZE
LUMBER:			
Frames	Mahog, Oak or SP	140 r-r* bd	1-1/4" stock, a minimum of 6" finished
		ft	net width
		80 r-r* bd ft	1-1/4" stock, a minimum of 4" finished
		20 r-r* bd ft	new width
			1-1/4" stock, a minimum of 9" finished

			new width
Deck beams (side, aft, fwd)	Mahog, Oak or SP	23 r-r* bd ft 24 r-r* bd ft	1" stock a minimum of 6" finished net width 1" stock, a minimum of 4" finished net width
Blocking btwn floor timbers	Mahog, Oak or SP	10 r-r* bd ft	1-1/4" stock, with some pieces at least 9" wide
Keel	Mahog, Oak or DF	2	1" x 6" x 19'
Chine logs	Mahog, Oak or SP	2	1-1/2" x 3" x 28'
Sheer clamps	Mahog, Oak or SP	4	1-1/4" x 2-1/2" x 32'
Sheer clamp backing pcs.	Mahog, Oak or SP	2	1-1/4" x 2-1/2" x 10'
Bottom battens	Mahog, Oak or SP	2 2 2 2	1-1/4" x 3" x 26' 1-1/4" x 3" x 24' 1-1/4" x 3" x 23' 1-1/4" x 2" x 22'
Side planking batten	Mahog, Oak or SP	2	1-1/4" x 2" x 30'
Guards	Mahog, Oak or teak	2	1-1/2" x 3" x 8'
Skeg	DF or Oak	1	2" x 4" x 14'
Spray rails	Mahog or Oak	2	1" x 1-1/4" x 28'
Carling	Mahog or Oak	2	1-1/4" x 4" x 23'
Deck battens & strongbacks	Mahog, Oak or SP	3 2 1	1-1/4" x 2" x 6' 1-1/4" x 2" x 4'-6" 1-1/4" x 2" x 1'
Sheer rub rail	Mahog, Oak or teak	2	1" x 1-1/4" x 32'
Sheer rub rail on transom	Mahog, Oak or teak	1	1" x 1-1/4" x 11'
Sheer cap rail	Mahog, Oak or teak	2	1" x 2" x 32' molded
Sheer cap rail on transom	Mahog, Oak or teak	1	1" x 2" x 11'
Motor stringers	Oak or DF	2	2" x 6" x 6'
Motor beds	Oak or DF	2	3" stock, length & width as required
Motor stringer uprights	Oak or DF	2	2" x 4" x 2'-6"
Cabin clamp	Mahog, Oak or teak	2	1"net x 4" x 23'
Blocking	Mahog, Oak or DF	2" x 2" material as rqd.	
PLYWOOD:			
Side planking	DF MAR AA	4	3/8" x 4' x 16'***
Bottom planking	DF MAR AA	24	3/8" x 4' x 8'

Transom	DF MAR AA	1 OR 1 Plus 1	3/4" x 5' x 10'** 3/4" x 4' x 10'** 3/4" x 1' x 10'**
Stem & beasthook laminations	DF Ext AB	2	3/4" x 4' x 8'
Floor timbers and gussets	DF Ext AB	3	1/2" x 4' x 8'
Decking (forward & aft areas)	DF Ext AB	2	1/2" x 4' x 8'
Decking (sides including butt blks)	DF Ext AB	2	1/2" x 4' x 8'

*All Random-random (r-r) material of varying lengths & widths, the widest possible widths being desirable.

**4' x 8' sheets can be substituted for longer sheets in all cases. Adjust quantities accordingly.

FASTENINGS:

Screws: Flathead wood type, bronze or hot dipped galvanized

- 3/4" #8 - 2 gross
- 1-1/4" #8 - 8 gross
- 1-1/2" #8 - 13 gross
- 2" #10 - 5 gross
- 3" #14 - 4 dozen

Nails: Ring type boat nails, bronze or Monel

- 1" - 5 pounds
- 1-1/4" - 5 pounds

Carriage Bolts: Bronze or hot dipped galvanized complete with nuts and washers. Threaded rod can be used optionally and jamming with nuts.

IMPORTANT: All lengths must be checked to work. See instructions for options.

Glue: Epoxy - 4 gallons