

V-Dory 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 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), and mahogany (Honduras, African or 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.

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

ITEM	MATERIAL	NO. PCS.	SIZE
LUMBER:			
#1 thru #11 side frame	Mahog, Oak or DF (*)	11	1-1/4" x 3-1/2" x 6'(**)
#1 thru #9 bottom frame	Mahog, Oak or DF (*)	9	1-1/4" x 3-1/2" x 5'-6"
#10 bottom frame	Mahog, Oak or DF (*)	1	1-1/4" x 3-1/2" x 5'(**)
#11 bottom frame	Mahog, Oak or DF (*)	1	1-1/4" x 3-1/2" x 3'(**)

#11 deck beam	Mahog, Oak or DF (*)	1	1-1/4" x 3-1/2" x 5'-6"
Transom frame-sides	Mahog, Oak or DF	1	1" x 3-1/2" x 7'(**)
Transom frame-bottom	Mahog, Oak or DF	1	1" x 3-1/2" x 12'(**)
Transom frame-top	Mahog, Oak or DF	1	1" x 3-1/2" x 8'
Keel-varies; see instr	Mahog, Oak or DF(*)	1	1-1/4" x 3-1/2" x 16'
Chines	Mahog or Oak	2	1-1/4" x 2" x 21'
Inner sheers	Mahog or Oak	2	1" x 1-1/2" x 24'
Inner bottom battens	Mahog or Oak	2 2	1" x 3" x 17' 1" x 3" x 19'
Outer bottom battens	Mahog, Oak or DF	2 2	1" x 3" x 17' 1" x 3" x 19'
Outer keel batten	Mahog, Oak or DF	1	1" x 3" x 11'
Spray rail	Mahog, Oak or DF	2	1" x 1-1/2" x 21'
Outer sheer	Mahog, Oak or DF	2	1" x 1-1/2" x 25'
Guard	Mahog, Oak or DF	4	1" x 1-1/2" x 21'
Carling	Mahog, Oak or DF	2	1" x 2" x 21'
Carling cap (opt.)	Mahog, Oak or DF	2	1" x 1-1/2" x 20'
Above across transom	Mahog, Oak or DF	1	1" x 1-1/2" x 9'
Ditto across foredeck	Mahog, Oak or DF	1	1" x 1-1/2" x 5'
Transom upright	DF	2	2" x 4" x 2'
WMO uprights	Mahog, Oak or DF	1	1" x 3" x 8'(***)
WMO top cleats	Mahog, Oak or DF	1	1" x 3" x 8'(**)
WMO bottom cleats	Mahog, Oak or DF	1	1" x 3" x 7'(**)
Strongback	Mahog, Oak or DF	1	1" x 3" x 3'
2" x 4" brace on #15	DF	1	2" x 4" x 4'

(*) If DF is used, stock may be standard 2" x 4" material (see instr.)

(*) May vary; see instructions.

(**) Makes two parts.

(***) Makes four parts.

PLYWOOD:

Stem, etc., PW Layout	DF AB Ext	2	3/4" x 4' x 8'
Gussets and bulkheads	DF AB Ext	1	3/8" x 4' x 8'
Side planking, gussets & butt blks	DF AA Ext or MAR	6	3/8" x 4' x 8'

Bottom planking, side deck & butt blocks	DF AA Ext or MAR	4	1/2" x 4' x 8'
		4	1/4" x 4' x 8'
Motorwell sides & foredeck	DF AB Ext	1	1/2" x 4' x 8'

FASTENINGS:

Screws: Flathead wood type, bronze or hot dipped galvanized

- 3/4" #8 - 2 gross
- 1" #8 - 6 gross
- 1-1/4" #8 - 8 gross
- 1-1/2" #8 - 3 gross
- 2" #10 - 1 gross
- 3" #14 - 30 only

Nails: Ring type boat nails, bronze or Monel

- 1-1/4" - 6 pounds

Carriage Bolts: Bronze or hot dipped galvanized complete with nuts and washers. Check lengths to work. See Fastening Schedule and instructions for options.

Glue: Epoxy - 2 gallons