

# Bonanza 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 oak (white oak), spruce (Sitka), 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.

**CHECK ALL SIZES TO THE WORK PRIOR TO CUTTING.**

Abbreviations used are: Mahog = mahogany; SP = Spruce; DF = Douglas-fir; PW=plywood; Ext=exterior; MAR=marine.

ITEM	MATERIAL	NO. PCS.	SIZE
<b>LUMBER:</b>			
Frames	Mahog, Oak or SP	"4-quarters" stock - 75 bd. ft random widths & lengths	
Motor stringers	DF	2	2" x 6" x 14'
Motor stringer	Oak	1	1" x 3" x 8'

blocking			
Keel	Mahog, Oak or SP	1	1-1/4" x 4" x 14'
Chine log	Mahog, Oak or SP	2	1" x 2-1/4" x 18'
Sheer clamp	Mahog, Oak or SP	4	5/8" x 1-1/4" x 18'-6"
Bottom battens	Mahog, Oak or SP	4	1" x 2-1/4" x 14'
Bottom battens	Mahog, Oak or SP	2	1" x 2-1/4" x 18'
Carlings	Mahog, Oak or SP	2	1" x 5" x 10'
Aft deck beams	Mahog, Oak or SP	1	1" x 7" x 5'
Forward deck beam	Mahog, Oak or SP	1	1" x 5" x 5'-6"
Dash beam	Mahog	1	1" x 8" x 6'
Strongback	Mahog, Oak or SP	1	1" x 2-1/2" x 7'
Deck battens	Mahog, Oak or SP	4	1" x 2" x 12'
Coamings	Mahog	2	1/2" x 5' x 9'

Misc. blocking should be obtained from scraps

**PLYWOOD:**

Frame gussets, keel & motor stringer laminations	DF Ext AB	2	1/4" x 4' x 8'
Stem, chine block, breasthook	DF Ext AB	1	3/4" x 4' x 8'
Side planking	DF MAR AA	2	1/4" x 3' x 18 <sup>***</sup>
Bottom planking	DF Ext AB	9	1/4" x 4' x 8'
Fore and aft decking	Mahog PW, ribbon stripe exterior	2	1/4" x 4' x 8'
Side deck	Mahog PW, ribbon stripe exterior	1	1/4" x 2' x 6'

**\*\*4' x 8' sheets can be substituted for longer sheets in all cases. Adjust quantities accordingly.**  
Note: Decking for side area may be fir obtained from scraps of planking if the finishing board method is used...Finishing board (optional) is not given in these instructions. If used, draw templates from work and layout to determine requirements.

**FASTENINGS:**

- Screws: Flathead wood type, bronze or hot dipped galvanized
- 3/4" #8 - 2 gross
  - 1" #8 - 1 gross
  - 1-1/4" #8 - 6 gross
  - 1-1/2" #8 - 1 gross

- 2" #10 - 2 gross
- 3' #14 - 18 only  
Nails: Ring type boat nails, bronze or Monel
- 1" - 8 pounds
- 1-1/4" - 1 pound  
Carriage Bolts: Bronze or hot dipped galvanized complete with nuts and washers. Check lengths to work.
- 1/4" x 6-1/2" - 2 required
- 1/4" x check to work - 40 required

**Glue:** Epoxy - 2 gallons

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