

Gung Ho 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), 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 or Oak	200	Random-random bd. ft. 1-1/4" stock, 6" or more wide
Floor timbers	Mahog or DF	2	2" x 10" x 14'
Keel	DF or Oak	1	2" x 6" x 21'
Chine log	Mahog or Oak	2	1-1/2" x 3" x 28'

Sheer clamp	Mahog or Oak	2	1-1/4" x 3" x 19'
Bottom battens	Mahog or Oak	2 2 2 2	1-1/4" x 2" x 20' 1-1/4" x 2" x 22' 1-1/4" x 2" x 24' 1-1/4" x 2" x 24'
Side battens	Mahog or Oak	6	1" x 2" x 30'
Inner clamp	Mahog or Oak	2	1" x 3" x 20'
Deck battens	Mahog or Oak	4	1-1/4" x 3" x 7'
Strongback	Mahog or Oak	1	1-1/4" x 3" x 8'
Skeg	DF	1	3" x 6" x 14'
Spray rails	Mahog or Oak	2	1-1/4" x 2-1/2" x 28'
Carlings	Mahog or Oak	2	1-1/4" x 6" x 21'
Deck blocking & hatch framing			1-1/4" stock as required

PLYWOOD:

Gussets	DF Ext AB	2	1/2" x 4' x 8'
Transom	DF MAR AA	1	3/4" x 4' x 10'**
Harpins & stem core	DF MAR AA	1	3/4" x 4' x 10'**
Side planking	DF MAR AA	2 2	3/8" x 5' x 16'** 3/8" x 4' x 16'**
Bottom planking	DF MAR AA	20	3/8" x 4' x 8'
Decking	DF MAR AA	2 2	1/2" x 4' x 8' 1/2" x 4' x 10'**

**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 - 11 gross
- 1-1/4" #8 - 2 gross
- 1-1/2" #8 - 20 gross
- 2" #10 - 2 gross
- 3" #14 - 2 gross

Nails: Ring type boat nails, bronze or Monel

- 1-1/4" - 7 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.

- 3/8" x varies - 2 required - Frames #9 & 10 to stem
- 3/8" x 12" - 4 required - Stem to keel
- 1/4" x 4" - 6 required - Harpin to breasthook
- 1/4" x 3" - 60 required - Floor timbers to frames
- 5/16" x varies - 18 required - Keel to frames
- 5/16" x 8" - 4 required - Chine to stem
- 1/4" x varies - 22 required - Chine to frames
- 1/4" x 6" - 6 required - Sheer clamp to harpin
- 5/16" x 3" - 40 required - Deck beams to frames
- 1/4" x 3-1/2" - 56 required - Spruce rail to hull
- 3/8" x varies - 11 required - Skeg to hull

Glue: Epoxy - 4 gallon