

Jackknife 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 (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 = Sitka spruce; DF = Douglas-fir; PW=plywood; Ext=exterior; MAR=marine.

ITEM	MATERIAL	NO. PCS.	SIZE
LUMBER:			
Frame members/deck beams	Mahog, DF, SP	1" ("four quarters" random-random material) in as wide of widths as possible with some widths up to 8" - Approx. 30 bd. ft.	
Keel	Mahog, DF, SP	2	1" x 3" x 10'

Bottom battens	Mahog, DF, SP	2 2 2 2	1" x 1-1/2" x 12' 1" x 2" x 12' 1" x 2" x 11' 1" x 2" x 10'
Chine logs	Mahog, DF, SP	2	1" x 2" x 15'
Sheer clamps	Mahog, DF, SP	4	5/8" net x 1-1/4" x 16'
Stringer	Mahog or DF	2	2" x 4" x 9'
Stringer blocking	Mahog or DF	1	2" x 2" x 6' (makes 6)
Carling	Mahog, DF, SP	2	1" x 3" x 10'
Cabin clamp	Mahog, DF, SP	2	1" x 3" x 10'
Deck battens	Mahog, DF, SP	1 1	1" x 2" x 9' (makes 2) 1" x 2" x 8' (makes 2)
Strongback	Mahog, DF, SP	1	1" x 3" x 6'
Lift strakes	Mahog or DF	2 2	1" x 2-1/2" x 10' 1" x 2-1/2" x 12'
Rub rails	Mahog or DF	2	1" x 1" x 16'
Transom blocking	Mahog or DF	1	2" x 4" x 2' (makes 2)
Transom brace	Mahog or DF	1	2" x 4" x 3'
Motor well side uprights	Mahog or DF	2	2" x 2" x 2'
Motor well cleats	Mahog or DF	2	1" x 2" x 12' (makes all)
PLYWOOD:			
Bottom planking	DF MAR or Ext AA or AB	4	3/8" x 4' x 8'
Side planking	DF MAR or Ext AA or AB	4	3/8" x 4' x 8'
Decking	DF Ext AB	2	3/8" x 4' x 8'
Gussets	DF Ext AB	1	1/4" x 4' x 4'
Transom, step & transom knee	DF Ext AB	1	3/4" x 4' x 8'
Motorboard, floor timbers, breasthook & clamping bd	DF Ext AB	1	3/4" x 4' x 8'
Cabin bulkhd & motor well	DF Ext AB	2	3/8" x 4' x 8'

FASTENINGS:

Screws: Flathead wood type, bronze or hot dipped galvanized

- 3/4" #8 - 2 gross
- 1" #8 - 5 gross
- 1-1/4" #8 - 2 gross
- 1-1/2" #8 - 3 gross
- 2" #10 - 8 dozen
- 3" #14 - 6 each

Nails: Ring type boat nails, bronze or Monel

- 1" - 1 pound
- 1 1/4" - 2 pounds

Carriage Bolts: Bronze or hot dipped galvanized complete with nuts and washers. Check all lengths to work

- 1/4" - 26 rqd. (*)
- 5/16" - 26 rqd.
- (*) Also required, four 1-4" flat head machine bolts.

Glue: Epoxy - 1 gallon