

# Ski King 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" or 1 1/8" stock is to be standard lumberyard four-quarter or five-quarter material which when finished may vary to somewhat less or slightly more than 3/4" in thickness for four-quarter and slightly more than 1" for five-quarter. Material thicknesses specified as NET are actual size. 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 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 epoxy, resorcinol, plastic resin 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
LUMBER:			
Frames	Mahog or Oak	1" material, 60 bd. ft. some 12" widths	

Sheer clamps	Mahog or Oak	4	1/2" Net x 2" x 16'
Chine logs	Mahog or Oak	4	5/8" Net x 2" x 16'
Battens, bottom	Mahog or Oak	2 2	1" x 2" x 12' 1" x 2" x 13'
Keel	Mahog or Oak	1	1 1/8" x 4" x 13'
Motor stringers	Mahog or Oak	2	1 1/8" x 6" x 12'
Spray rail	Mahog or SP	2	1" x 1 1/2" x 16'
PLYWOOD:			
Stem & Breasthook	DF Ext AB	1	3/4" x 2' x 6'
Bulkhead at #5, Transom & keel lams	DF Ext AB	2	1/4" x 4' x 8'
Side planking	DF MAR AA or AB	2	1/4" x 4' x 16'***
Bottom planking	DF MAR AA or AB	2	3/8" x 3' x 16'***
Optional Bottom	DF Mar AA or AB	4	1/4" x 3' x 16'***

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

## FASTENINGS:

Screws: Flathead wood type, bronze or hot-dipped galvanized

- 1-1/2" #8 - 1 gross
- 2" #10 - 6 doz.
- 1" #8 - 8 gross (3/8" bottom)
- 1" #8 - 2 gross (double 1/4" bottom)
- 1-1/4" #8 - 6 gross (double 1/4" bottom)

Nails: Ring type boat nails, bronze, stainless steel or Monel

- 3/4" - 1 pound
- 1" - 2 pounds

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

- 1/4" x 1 1/2" - 16 ea (angle clips)
- 1/4" x 2" - 16 ea (angle clips)
- 1/4" x 2" - 32 ea (frames)
- 5/16" x 6" - 2 ea (stem to keel)

Glue: Epoxy - 1 gallon

Angle clips: 1/8" x 2" x 2" - 6" long - 8 req'd Alum. Or Steel

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