

SCULL BOAT 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 spruce (Sitka variety) 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.

Abbreviations used are: Mah = mahogany; Sp = spruce; DF = Douglas-fir; EXT = Exterior.

ITEM	MATERIAL	NO. PCS	SIZE
LUMBER:			
Frames	Mah or Sp	----	1" x 1-1/2" x 19 Lin ft.
Cross Frames	Mah or Sp	----	1" x 1-1/2" x 10 Lin ft.
Deck Beams	Mah or Sp	----	1" x 2" x 7 Lin ft.
Transom Frame	Mah or Sp	1 1	1" x 6" x 2' 1" x 3" x 2'-6"
Breasthook	Mah or Sp	1	1" x 6" x 1'
Knuckle & Chine	Mah or Sp	4	1" x 1" x 16'

Bottom Battens	Mah or Sp	2	1" x 2" x 11'
Keel	Mah or Sp	1	1" x 2" x 15'
Sheer	Mah or Sp	2	1" x 1-1/4" x 16'
Strongback	Mah or Sp	1	1" x 1-1/2" x 11'
Skeg	Mah or Sp	1	1" x 4" x 3'

PLYWOOD:

Transom & Stem	DF PW Ext AB	1	3/4" x 2' x 4'
Long Beam - 2 fwd parts & 1- Aft, & Frames	DF PW Ext AB	1	1/4" x 4' x 8'
Long Beam - Aft part & aft bottom planking	DF PW Ext AB	1	1/4" x 4' x 8'
Fwd Bottom Planking & decking	DF PW Ext OR MAR AB or AA	1	1/4" x 4' x 8'
Side Planking & Decking	DF PW Ext OR MAR AA or AB	2	1/4" x 4' x 8'

FASTENINGS for both models unless specified differently:

- SCREWS: Flat head wood type, bronze or hot dipped galvanized iron.
- 3/4" #8 Screws - 1 gross
- 7/8" #8 Screws - 3 gross
- 1" #8 Screws - 1 gross
- 1-1/4" #8 Screws - 6 dozen
- 1-1/2" #8 Screws - 6 dozen
- 2" #10 - 10 total

- NAILS: Ring type, Bronze or Monel
- 3/4" #14= 1-1/4 pound

- CARRIAGE BOLTS: Bronze or hot dipped galvanized
- 1/4" x 3" - 1 required

GLUE: Epoxy - Approximately 1/2 gallon